Courses of Study 2011 - 2012

2011 - 2012 Academic Calendar

Summer 2011 Academic Calendar

Undergraduate

APRIL 2011
11-25
Registration of currently enrolled students for Summer Session 2011

MAY 2011
23
Residence halls open for resident students: 1:00-5:00 p.m.
24
Orientation, advising of new students: 9:00 a.m.-noon. Registration: 8:30a.m.-noon
25
Beginning of classes
25
Add/drop begins
30
Memorial Day; University holiday; offices closed; no classes

JUNE 2011
1
Last day an undergraduate student may register or add/drop a course
13
Last day an undergraduate student may withdraw from a course

JULY 2011
4
Independence Day observed; University holiday; offices closed; no classes
7-8
Final examinations
8
Residence halls close for the summer: 5:00 p.m.
12
Grades due: 5:00 p.m.
Fall 2011 Academic Calendar

Undergraduate

AUGUST 2011
15-19 Faculty Orientation
18 New undergraduate student orientation begins
18 New Student Move-in Day
20 Residence halls open for sophomores
21 Residence halls open for juniors/seniors
22 Academic advising begins
22-23 Registration begins (see Fall 2011 Class Schedule for registration information)
24 Beginning of classes: 8:30 a.m.
24 Add/Drop and late registration begin
31 Add/Drop ends and last day to register

SEPTEMBER 2011
1 First day to apply for a degree at Spring Commencement
5 Labor Day; University holiday; offices closed; no classes
14 Last day to change Pass/Fail
30 Fall Family Weekend

OCTOBER 2011
1 Fall Family Weekend
14 Mid-semester recess; no classes; offices open
18 Last day a graduate student may withdraw from a course without approval
19 Mid-semester grades due: 5:00 p.m.
27 Last day an undergraduate student may withdraw from a course with a "W"

NOVEMBER 2011
7-18 Registration for Spring semester 2012
22 Last day for graduate degree candidates to submit theses or projects to Academic Affairs (Winter Commencement)
22 Honors theses due in Office of Academic Affairs for December degree candidates
23-25 Thanksgiving holidays; no classes

DECEMBER 2011
1 Last day to apply for a degree at Spring Commencement
7-8 Reading Days
9-15 Final examinations (begin on Dec. 9: 8:30 a.m.)
15 Grades due for degree candidates: noon
17 Residence halls close at noon, Dec. 17, except for graduating seniors who may remain until noon, Dec. 18
17 Winter Commencement: 10:00 a.m.
19 Fall semester grades due: 5:00 p.m.
23-29 Christmas holidays: offices closed
30 New Year's Day (observed)

Spring 2012 Academic Calendar

Undergraduate

JANUARY 2012
2 First day to apply for a degree at Winter Commencement
8 Residence halls reopen at noon
8-10 New Student Orientation
10 Registration for Spring semester (see Spring Class Schedule for registration information)
10 Add/Drop and late registration begin
11 Beginning of classes: 8:30 a.m.
16 Martin Luther King, Jr., Day; University holiday; offices closed; no classes
19 Add/Drop ends and last day to register

FEBRUARY 2012
1 Last day to change Pass/Fail
MARCH 2012
10-18 Spring break; no classes
13 Mid-semester grades due: 5:00 p.m.
13 Last day a graduate student may withdraw from a course without approval
22 Last day an undergraduate student may withdraw from a course with a "W"
30-31 Spring Family Weekend

APRIL 2012
Spring Family Weekend

Good Friday; University holiday; offices closed; no classes

Registration of currently enrolled students for Summer and Fall semesters, 2011

Last day for graduate degree candidates to submit theses or projects to Academic Affairs (Spring Commencement)

Honors theses due in Office of Academic Affairs for May degree candidates

Last day to apply for a degree at Winter Commencement

MAY 2011

Reading Days

Final examinations (begin on May 2: 8:30 a.m.)

Residence halls close at noon, May 9, except for graduating seniors who may remain until noon, May 13

Grades due for graduating seniors: noon

Spring Commencement: Graduate Commencement, 9:00 a.m.; Undergraduate Commencement, 10:30 a.m.

Spring semester grades due: 5:00 p.m.

Memorial Day; University holiday; offices closed; no classes

Summer 2012 Undergraduate

MAY 2012

Advising and Registration

Residence halls open for resident students: 1:00 p.m.-5:00 p.m. Orientation, advising of new students: 9:00 a.m.-noon. Registration: 8:30 a.m.-noon

Beginning of classes

Add/drop begins

Memorial Day; University holiday; offices closed; no classes

Add/drop ends

JUNE 2012

Last day an undergraduate student may withdraw from a course

Independence Day; University holiday; offices closed; no classes

Final examinations

Residence halls close for the summer: 5:00 p.m.

Grades due: 5:00 p.m.

Holidays

Commonly observed special dates on which classes are held and university offices are open

FALL 2011

Aug. 1

Ramadan: Month during which Muslims observe a strict fast from sunrise to sunset

Aug. 31

Eid al Fitr: Celebrates the end of Ramadan.

Sept. 29-30

Rosh Hashanah: two day celebration marking the Jewish New Year

Oct. 7-8

Yom Kippur: Jewish Day of Atonement
Oct. 11  Columbus Day

Oct. 26  Diwali: Hindu/Indian Festival of Lights

Nov. 6  Eid al Adha: Islamic Festival of the Sacrifice

Nov. 11  Veterans’ Day

Dec. 21-28  Hanukkah: Jewish Festival of Lights

**SPRING 2012**

Jan. 23  Chinese New Year: Confucian, Buddhist holiday

Feb. 21  Presidents’ Day

Feb. 22  Ash Wednesday: Christian, beginning of Lent

Apr. 1  Palm Sunday: Christian

Apr. 7-14  Passover: Jewish, commemorates the liberation of Israelites
Courses of Study 2011 - 2012

General Information

THE MISSION OF TRINITY UNIVERSITY: STATEMENT OF INSTITUTIONAL IDENTITY AND STRATEGIC OBJECTIVES

Trinity University is an independent coeducational university whose mission is excellence in the interrelated areas of teaching, research, and service. Trinity seeks to provide broad and intensive educational opportunities primarily to undergraduates in liberal arts and sciences, and in selected professional and pre-professional fields. It also offers a small number of selected high quality graduate programs.

Trinity University is dedicated to creating a superior intellectual environment by: recruiting, developing, and retaining outstanding faculty members dedicated to teaching, to scholarship and creative endeavor, and to service to the University and its community; identifying, and attracting talented and highly motivated students to its predominantly full-time, residential student body; and providing a supportive and challenging experience wherein students, faculty, and staff can realize the potential of their abilities and engage their responsibilities to others. Trinity respects its historic ties to the Presbyterian Church, with which it continues to have a covenant relationship.

INDEPENDENT STATUS, CHARTER, COVENANT

Trinity University is an independent university founded in 1869 by Presbyterians, an institution that served a full century as "the college of The Synod of Texas." In 1969 a covenant was adopted between the Synod and the University, and the previous legal ties were dissolved. Trinity's covenant with The Synod of Texas was reaffirmed in 1973 by the newly organized Synod of the Sun. The covenant is one of mutual trust and obligation in which the Board of Trustees commits itself to continue to pursue the purposes for which Trinity University was founded. The church pledges itself to continue its interest in and support of the University. The covenant was reaffirmed with the Presbyterian Church (U.S.A.) in 1983, 1989, and again in 2000.

The amended charter creates a self-perpetuating Board of Trustees consisting of thirty-six persons who have complete control and management of the institution. The legal purpose of the corporation is to maintain and operate a coeducational institution and to confer degrees upon graduating students and other deserving persons.

ACCREDITATION

Trinity University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award bachelors and masters degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, or call 404-679-4500 for questions about the accreditation of Trinity University. The Commission requests that they be contacted only if there is evidence that appears to support an institution’s significant non-compliance with a requirement or standard. For more information about the Commission, please visit their web site at www.sacscoc.org.

Texas state teachers' certificates are issued to those students who fulfill the requirements of the Texas Education Agency. The University is a member of The American Association of Colleges for Teacher Education and is accredited by the National Council for Accreditation of Teacher Education for the preparation of elementary teachers, secondary teachers, and school service personnel, with the master’s degree.

A chapter of Phi Beta Kappa is active on the Trinity campus. In addition, Trinity University is approved and accredited by the Texas Education Agency, the United States Office of Education, and the American Chemical Society.

Trinity’s undergraduate Engineering Science Program is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (EAC/ABET). EAC/ABET is the only national agency that accredits engineering programs.

The Department of Business Administration is accredited by the Association to Advance Collegiate Schools of Business (AACSBI).

The Department of Health Care Administration is accredited by the Accrediting Commission on Education for Health Services Administration for its health care administration program.

The University is a corporate member of the American Association of University Women, and its women graduates are eligible for membership in this organization.

NON-DISCRIMINATION AND DIVERSITY POLICY

Within published requirements for admission, Trinity University does not and will not discriminate in admission of students to study at the University, enrollment in classes, housing, or use of facilities in the academic program because of race, color, religion, sex, age, national origin, disability (if otherwise qualified for admission), military/veteran status, sexual orientation, or any other status protected by federal, state, or local laws.

Trinity University does not and will not discriminate against any employee or applicant for employment because of race, color, religion, sex, age, national origin, disability (if otherwise qualified for the job), military/veteran status, sexual orientation, or any other status protected by federal, state, or local laws. The University is committed to making employment-related decisions according to an applicant or employee’s experience, talent, and qualifications, without regard to his/her race, color, religion, sex, age, national origin, disability (if otherwise qualified for the job), military/veteran status, sexual orientation, or any other status protected by federal, state, or local laws.

The Compliance Officer of the University is the Director of Human Resources. Any questions or complaints relative to discrimination should be referred to the Office of Human Resources. The Section 504/Americans with Disabilities Act Compliance Officer is the Associate Vice President for Fiscal Affairs. Students with disabilities who desire accommodations should contact Disability Services for Students in Counseling Services, preferably before the beginning of each semester. Any questions or complaints relative to facilities, services, and accessibility should be referred to the Office of Fiscal Affairs.
SECURITY POLICY STATEMENT

Trinity University's campus security program is an ongoing process that includes the development and enforcement of regulations, procedures, and practices to provide a reasonable level of security for property, information, and for the personal safety of employees, students, and visitors.

Administrative and supervisory personnel are responsible for the incorporation of security principles and procedures in their respective areas of operations.

Each member of the faculty, staff, and student body is responsible for carrying out campus regulations, procedures, and practices and shall comply with federal, state, and local laws related to security matters while on the campus or in the course of representing or conducting University activities.

In compliance with the Crime Awareness and Security Act of 1990, the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act, additional information regarding security policies and crime statistics is available from the Office of the Director of Campus Security, Trinity University, (210) 999-7070. This information is also available at the internet website: http://web.trinity.edu/x0208.xml.

ELECTRONIC COMMUNICATION

Trinity University supplies every student and employee with an e-mail address. Students, faculty, and all employees of the university are expected to monitor their e-mail on a regular basis. E-mail is an official means of communication and will be utilized to conduct business and to supply information to students, staff, and faculty. E-mail is also a critical and primary communication tool for faculty, staff, and students in the event of a university emergency.
Courses of Study 2011 - 2012

Enrollment Information

ADMISSION POLICY

Trinity University's admission policy, established by the Board of Trustees upon recommendation of the administration, is to attract academically gifted and highly motivated undergraduate men and women students of varied geographic, racial, ethnic, socioeconomic, religious, and national backgrounds who are eager to learn and develop their talents and leadership qualities.

Factors that influence the admission decision include grade point average unweighted on academic solids, course rigor, class rank if reported, high school quality, writing, standardized test scores, recommendations from high school counselors and teachers, special talent and creativity, and contributions to school and community. Students who have attended other institutions of higher learning wishing to transfer to Trinity University will be evaluated also on their academic achievement and courses completed at the prior institution. Final transcripts including any work in progress at the time of admission or done subsequent to admission (such as summer school) must be submitted as soon as available.

Within published requirements for admission, Trinity University does not and will not discriminate in admission of students to study at the University, enrollment in classes, housing, or use of facilities in the academic program because of race, color, religion, sex, age, national origin, disability (if otherwise qualified for admissions), military/veteran status, sexual orientation, or any other status protected by federal, state, or local law.

Students who have never attended Trinity University should contact the Office of Admissions at Trinity University, One Trinity Place, San Antonio TX 78212-7200; (210) 999-7207; 1-800-TRINITY; or admissions@trinity.edu.

ADMISSION MINIMUM COURSE REQUIREMENTS

Minimum secondary school course requirements include four years/credits of English; three years/credits of college preparatory mathematics including algebra II and either trigonometry, precalculus, statistics, or other advanced mathematics course approved by the Office of Admissions and the Department of Mathematics; three years/credits of natural science (including two years of laboratory science); three years/credits of social science; and two years/credits of a single foreign language. An average of C- or better must be achieved in each course.

ADMISSION DEFICIENCIES

Students admitted to Trinity who have not completed the minimum secondary school course work (outlined in the Admission Minimum Course Requirements section) must register for college courses that remove the deficiencies at the earliest time such college courses are available. The conditions are absolved for such courses in which a grade of C- or better is made. A one-semester course in a subject at the college level will absolve one year of deficiency and a full-year course will absolve two years of deficiency. A mathematics deficiency must be removed by completing a MATH course from this bulletin or an equivalent course.

The Office of the Registrar will enforce removal of deficiencies. Deficiencies may not be waived by faculty advisers. Any exception to policy regarding a deficiency would require approval by the Office of Academic Affairs.

INTERNATIONAL STUDENT REQUIREMENTS

Citizens of countries other than the United States, whose first language is not English, are encouraged to submit results from the TOEFL (with a recommended score of 250 CBT, 600 Paper, or 100 iBT). In addition, international applicants who are not permanent residents of the United States must submit the Statement of Financial Support or signed, certified bank documents demonstrating one's ability to fund a Trinity education (contact Office of Admissions for current demonstrated funds requirements). Students should submit certified English translation of documents. Trinity University will issue Form I-20, Certificate for Eligibility for Nonimmigrant (F-1) Student Status, only upon receipt of a non-refundable deposit indicating acceptance of an offer of admission.

STUDENT LEAVE

A student may take personal leave from the university for one or two semesters. The form applying for leave must be obtained from the Office of the Registrar and filed with the Registrar following consultation with the student's faculty adviser and the Dean of Students or Vice President for Student Affairs. Leave for more than two semesters can be taken only with approval of both the Vice President for Student Affairs and the Vice President for Academic Affairs and will be granted only for compelling reason. A student on leave may register for the semester of return at the time of the November or April registration, but the student is responsible for establishing contact with the Office of the Registrar and the faculty adviser in order to achieve such registration. The class schedule will normally be available on the Internet. The student on leave will also retain housing priorities similar to those that he or she was entitled to at the time of the leave.

If the purpose of the leave includes study at another college or university, permission for the leave requires the approval of the Office of the Vice President for Academic Affairs, and the justification for the leave must be the student's access to curricula not available at Trinity that is central/critical to the student's program of study. Permission to transfer credit is to be sought in the same manner as for summer school at another institution, and the student is not eligible for any kind of financial aid, including state or federally funded programs, through Trinity University. Reenrollment at Trinity for students on this type of term is dependent on satisfactory performance at the college attended. Behavior that would be deemed grounds for dismissal from Trinity will also be grounds for denial of reenrollment. Such leave that includes study is not to be confused with approved Study Abroad or approved specialized Special Studies: U.S. semesters for which credit approval and eligibility for financial aid is arranged through the International Programs Office.

READMISSION TO THE UNIVERSITY
Former Trinity students who have not been in attendance for one or more regular semesters must file an application for readmission. Readmission forms may be requested from the Registrar.

Applications for readmission must be submitted to the Office of the Registrar at least two months prior to the beginning of the semester in which the student applying for readmission wishes to enroll. The Committee on Academic Standing reviews applications for readmission from students who are not in good standing. Students readmitted to the University are responsible for making arrangements for housing and financial aid. Contact the Offices of Student Affairs and Financial Aid for more information.

Students on approved leave from the University or doing approved study abroad or special studies semesters are not required to apply for readmission.

REGISTRATION

Registration for continuing students will take place during the preceding semester. All continuing students planning to enroll for the upcoming semester must register during this period. Undergraduate students who miss this period may register late during the late registration or add/drop period of the new semester upon payment of a $100 late registration fee.

Registration for new students will be held on the opening days indicated on the Academic calendar. The late registration fee will be charged after the close of regular new student registration.

Registered students may enter modular classes starting after the beginning of the semester on or before the fourth day of the modular class by filling out the appropriate form in the Office of the Registrar. Permission of the instructor of the class is required.

ADD/DROP PERIOD

Students may add courses to their schedule through the sixth day of classes of a regular semester and through the fifth day of classes of a summer term. Students enrolled in a course that has not officially met before the end of the drop period (e.g., Monday only courses) have until 5:00 p.m. on the day following the first meeting of that course to drop a course. After those dates, which are specified in the Academic calendar, a student may not enter a new course and no further registration for the term will be accepted.

Students may drop courses from their schedule through the sixth day of classes of a regular semester and through the fifth day of classes of a summer term. Students enrolled in a course that has not officially met before the end of the drop period (for instance, Monday-only courses) have until 5:00 p.m. on the day following the first meeting of that course to drop the course. After those dates, which are specified in the Academic calendar, a student may only withdraw from a class with a grade of W.

WITHDRAWAL FROM A COURSE

The University Registrar establishes a course withdrawal deadline for each semester and summer session. The last day to withdraw from a course shall be during the ninth full week of classes in fall and spring semesters and during the third full week of classes in the summer term. If a student withdraws from a course after the Add/Drop period, a grade of W will be entered on the student's transcript.

Withdrawal deadlines for classes offered for a portion of a semester are established as follows. A student may withdraw from such a class with a grade of W until the end of the third week of the course during the fall or spring semester, or the first week during the summer semester. After these dates, withdrawal may be made only with approval from the Office of Academic Affairs. The Associate Vice President for Academic Affairs: Curriculum and Student Issues shall consult with the instructor before approving exceptions to withdrawal policies.

Withdrawal forms are available in the Office of the Registrar. Students failing to file proper withdrawal forms by the appropriate deadline must complete classes for which they are registered or receive an F.

The date of the withdrawal is important with regard to deadlines for tuition refunds as indicated in the Student Expenses section of this bulletin.

After the withdrawal deadline no student may withdraw from a class except in an emergency such as hospitalization.

WITHDRAWAL FROM THE UNIVERSITY

An honorable dismissal will be granted to any student who may desire to withdraw from the University if he/she is in good academic standing, is not subject to discipline, has made satisfactory arrangements for settling his/her financial account, and has had the requisite exit interviews by the residential life staff and student loan officer (if applicable).

After the established withdrawal deadline, students who withdraw from the University will receive grades of F in all courses for which they are registered except for students withdrawing as a result of an emergency such as hospitalization as certified by the Vice President for Student Affairs or Vice President for Academic Affairs.

A student who wishes to withdraw from the University must submit an application for complete withdrawal, signed by him or her adviser, to the Registrar. Official withdrawal from the University for an upcoming semester must be completed by the last day of add/drop in order to receive full refund of tuition. Refund of tuition and other charges will be in accordance with the schedule of reduced costs. (See Student Expenses and Financial Aid.)

Students who stop attending classes without officially withdrawing will forfeit claim to honorable dismissal and will be given failing grades.

Students who have registered for classes but then choose not to attend the University must notify the Office of the Registrar in writing or submit an application for complete withdrawal prior to the start of classes. If written notification is not received by the Office of the Registrar prior to the end of the Add/Drop period, grades of W will be recorded on the official transcript.

Students who withdraw from the University during a term will have their financial aid reviewed and adjusted as applicable in accordance with federal, state, institutional, and external regulations, rules, and policies.

HEALTH SERVICES, HEALTH RECORD, AND INSURANCE

Upon admission to Trinity University, students are required to file a health record form which includes the student's medical history, documentation of a physical examination, immunization records, and a statement authorizing medical and dental procedures in emergencies. They must also provide information about current health and hospitalization insurance.

Students admitted for the fall may obtain the required Health Record and Insurance forms from the Tiger’s Lair under the "Forms and Info" tab. January admissions will receive these forms by mail. The Health Record and Insurance forms should be completed by the student and their healthcare provider and returned to Health Services before moving onto campus. Students who fail to meet these requirements may not be permitted to register for classes.

The Trinity University Health Services is a health care facility to be used by students in need of medical consultation. The service is staffed by registered nurses, and a family physician holds tri-weekly clinics by appointment. The range of service includes nursing assessment and care of illness, injuries and minor emergencies; throat cultures; administration of prescribed medications; limited laboratory testing; medical evaluation and treatment by a physician during clinic hours; and appropriate medical and dental referrals.
All students enrolled for nine or more hours of study must show proof of health and hospitalization insurance. This ensures that students can be treated in an emergency and minimizes the financial risk associated with serious illness or injury. Students who do not have a personal health insurance policy are required to purchase the group health insurance plan endorsed by the University. Continuing students are required to submit health insurance information annually in the spring and to update their insurance information with Health Services whenever changes occur.

CREDIT FROM OTHER INSTITUTIONS AND BY EXAMINATION

TRANSFER CREDIT

Trinity University evaluates, and may accept, credit earned at other regionally accredited educational institutions. The basis for approval of transfer credit is that the courses are appropriate to the Trinity curriculum. Thus credit may be given to courses whose content is such that they are or could be appropriately offered at Trinity University. Transfer credit will be evaluated and posted to the academic record only for students currently enrolled at Trinity University. Courses with a grade of D+ or lower will not be accepted for transfer credit. Courses completed at another institution at the lower-division level, including all courses completed at a community or junior college, will transfer as lower-division credit even if the closest equivalent Trinity University course is at the upper division.

The University does not recognize the Associate of Arts degree for a set number of hours of credit. Each course is evaluated separately to determine if it can apply toward a Trinity degree.

Transfer credit must be reported on official transcripts sent directly to Trinity University by the other institution. Hand carried transcripts are not accepted as official documents.

Trinity students who plan to take courses at another institution during the summer or during a semester's absence and wish to transfer credit to apply toward a degree must have signed approval in advance from their faculty adviser, the chair of the department for the course being transferred, and the Registrar. Approval forms are available from the Registrar. In the case of foreign institutions, see the procedure under Study Abroad (below).

A maximum of 18 semester hours of external credit may be used to satisfy the Understandings of the Common Curriculum. Common Curriculum transfer credit is subject to the policy and procedure for credit from other institutions and by examination as stated in this bulletin. Transfer credit shall satisfy the Common Curriculum requirements for the same Understanding as the equivalent Trinity University course shown on the current list of courses approved for the Common Curriculum. Transfer credit may also be approved if a course not offered at Trinity University substantially satisfies the criteria for an Understanding.

Students should be aware of the following residency requirements:

- At least 62 credit hours must be earned in residence to complete a baccalaureate degree.
- At least 15 credit hours of each major must be earned in residence, and at least 12 of those hours must be upper division.
- The last 30 credit hours before graduation must be earned in residence.

Exceptions for study abroad: Students with 62 or more semester hours earned at Trinity who wish to enroll in an approved study abroad program in their senior year may be exempted from the last 30 hours of residence requirement. Students who transfer to Trinity with 50 or more credit hours may count up to 15 semester hours of approved study abroad credit toward the 62-hour residency requirement. These same exceptions apply to special semester domestic programs approved by the Office of Study Abroad.

STUDY ABROAD AND OFF-CAMPUS STUDY

Trinity University believes that living and studying in another culture can be an essential part of a liberal arts education. Opportunities for such study are available to all Trinity students including those in the natural sciences and professional disciplines. Approximately 40 percent of Trinity students in the most recent graduating classes have spent a semester or academic year abroad.

Most academic majors are directly enriched through foreign study. This is the case for professionally oriented majors such as business, communication, music, theater, and even engineering, as well as for disciplines more traditionally associated with overseas study such as history and languages. Natural science students may take advantage of the opportunity to approach their disciplines through a different, more specialized, educational system in foreign universities (usually in English-speaking countries), although some natural science majors choose instead to focus on a semester on language or cultural studies. A growing number of specialized programs, internship programs, and field study programs offer additional opportunities.

A wide choice of Trinity approved programs (many taught in English) allow for a semester or year abroad in the United Kingdom, France, Germany, Austria, Spain, Italy, Ireland, Russia, and other European countries, in Mexico, Costa Rica, and South America, in China, Japan, and other Asian countries, in Africa, in Australia and New Zealand, and in Israel and Egypt. Trinity is an affiliate of the distinguished Institute for the International Education of Students (IES), a coordinating institution for Denmark's International Studies Program (DIS), a member of the Intercollegiate Center for Classical Studies (Rome) and of the Council on International Education Exchange (CIEE), and maintains close relationships with a number of other programs and universities. Trinity most directly sponsors programs as a member of Associated Colleges of the South (ACS). Trinity also has direct exchanges with the TEC de Monterrey in Mexico and several schools in East Asia, including Lingnan University in Hong Kong, National Cheng Kung University in Taiwan, and Ewha and Yonsei Universities in Korea.

What particularly distinguishes Trinity's program for study abroad, however, is its determination to place each individual student in whatever program is most appropriate to the specific needs, interest, and abilities of that individual. To that end Trinity provides a comprehensive set of resources for information and advising. Any interested student should begin by visiting the International Programs Office, preferably as early as possible in his or her academic career. Most forms of financial aid may be applied toward the costs of the semester abroad. Students with financial aid should consult the Study Abroad Office and the Office of Financial Aid.

A Trinity student planning to study abroad and transfer the credits to Trinity must obtain approval for the program in advance. The deadline for processing program applications and approval is October 25, for Spring semester applicants; March 25, for Fall semester, Summer term, and Academic Year applicants. Students intending to study abroad should discuss this interest with their academic advisers as well as with the Study Abroad Counselors. In addition to providing for transfer of credit, approval to study abroad maintains one's status as a currently enrolled Trinity student during the period abroad and provides for residence hall eligibility and arrangements for registration.

Study Abroad policies and procedures apply to a number of special programs that a Trinity student may pursue in the United States. These include the American University Washington Semester and the Semester in Environmental Sciences at Marine Biological Laboratory at Woods Hole in Massachusetts (both of them formal Trinity affiliates), a United Nations semester, urban semesters in Chicago or Philadelphia, an art semester in New York, and semesters at major national research laboratories in several of the physical and biological sciences.

DUAL CREDIT

Trinity University accepts dual credit (college courses taken as part of the secondary school curriculum) only if the courses taken were not used to satisfy Trinity's requirements for admission outlined in the Admission Minimum Course Requirements section and have met all other mandated transfer requirements as stated in the Transfer Credit section.

CREDIT BY EXAMINATION

All credit by examination is recorded on the student's permanent record as credit (CR) without a grade and becomes part of the official transcript. No credit is valid without the student's enrollment for credit at Trinity University. Transfer credit will not be allowed for credit by examination which does not meet Trinity's own requirements.

All credit by examination must be earn in disciplines in which the student does not already have credit more advanced than the level of the examination. Credit by examination may not be duplicated by subsequent enrollment in an equivalent course for credit. Upon recommendation of the student's faculty adviser and with the approval of the appropriate department, the Registrar may delete credit by examination from the permanent record to allow the student to take the equivalent course for credit. Credit earned by examination satisfies degree requirements in the same way as does credit earned by passing the course, except that it does not count as credit earned in residence. Trinity does not accept credit earned by examination at another institution.
College Board Advanced Placement Program

Trinity University allows students to earn credit prior to entrance through the College Board Advanced Placement Program. Trinity awards credit for most AP examination scores of 4 or 5. A current list of AP examinations showing the equivalent credit awarded by Trinity is available from the Registrar. The granting of credit is automatic upon receipt of official score reports.

Cambridge University International Examinations

Trinity University recognizes some Cambridge University International Examinations, and students may contact the Registrar for further details regarding placement credits in individual academic disciplines.

International Baccalaureate Program

Trinity University allows students to earn credit prior to entrance through the International Baccalaureate Program sponsored by the International Baccalaureate Organization of Geneva, Switzerland and the International Baccalaureate North American regional office in New York. Trinity awards credit for most IB Higher Level Examination scores of 5, 6, or 7. A current list of IB examinations showing the equivalent credit awarded by Trinity is available from the Registrar. Credit will be granted upon receipt of an official IB transcript.

Departmental Examinations

Departmental examinations in specific courses are available to qualified students upon approval of the chair of the department in which the examination is to be taken. Approval forms are available from the Registrar. After approval, but prior to taking the examination, the student must pay the non-refundable departmental examination fee (see Fees for Special Purposes) to the Business Office. The appropriate faculty member then administers and grades the examination. Credit for the course will be granted provided the student passes the examination with a grade of B or higher and completes 24 semester hours in residence. The student must be in good standing when the examination is requested.

AIR FORCE RESERVE OFFICER TRAINING CORPS PROGRAM

General:

The Air Force Reserve Officer Training Corps (ROTC) program is offered at Trinity University through a Crosstown Agreement with the University of Texas at San Antonio (UTSA). Trinity students may attend Air Force ROTC classes at UTSA as part of their Trinity curriculum. Students who meet all Air Force ROTC standards will be commissioned as officers in the United States Air Force upon degree completion from Trinity. The Air Force ROTC program is offered regardless of a student's major and does not of itself lead to a degree. A maximum of 16 credit hours may be taken.

The Air Force ROTC program provides management and leadership training to prepare students to serve as officers in the U.S. Air Force. The program is open to any U.S. citizen who meets the academic and physical standards.

The Air Force ROTC curriculum is comprised of four courses each semester conducted at the first year, sophomore, junior, and senior levels. Speaking and writing skills are progressively developed in all four levels of instruction.

"The Foundation of the United States Air Force" is the one-hour first-year-level course. It introduces students to the United States Air Force and provides an overview of the basic characteristics, missions, and organization of the Air Force as well as introduction to communication skills. A mandatory Leadership Laboratory must be taken in conjunction with the course. "The Evolution of USAF Air and Space Power" is the one-hour sophomore-level course. It features topics on Air Force heritage and leaders; introduction to air and space power through examination of competencies and functions; and continued application of communication skills. A mandatory Leadership Laboratory must be taken in conjunction with the course. "Air Force Leadership Studies" is the three-hour junior-level course. Students learn advanced skills and knowledge in management and leadership. Special emphasis is placed on enhancing leadership skills. A mandatory Leadership Laboratory must be taken in conjunction with the course. "National Security Affairs/Preparation for Active Duty" is the three-hour senior-level course. It provides students with the foundation to understand their role as military officers in American society. It is an overview of the complex social and political issues facing the military profession. As with the previous courses, a mandatory Leadership Laboratory must be taken in conjunction with the course. The Leadership Laboratory is approximately one hour and forty-five minutes; all cadets attend the laboratory, which is held once a week during the semester.

Four-Year Program:

The GENERAL MILITARY COURSE (GMC) is open to all Trinity students, and is generally taken during the first and second years. There is no obligation incurred by nonscholarship GMC cadets. Cadets will learn the history, role and structure of the U.S. Air Force, and basic military skills. Veterans who have been honorably discharged may be granted credit for part or all of the GMC.

The PROFESSIONAL OFFICERS COURSE (POC) is the upper division portion of the Air Force ROTC program. Admittance to the POC is based on competitive criteria and the needs of the Air Force. Prior to entering the POC, applicants will normally attend a four-week field training encampment. The POC is normally taken during the junior and senior years. All POC students are enlisted in the Air Force Reserve and receive a subsistence allowance. Upon completion of the POC and all degree requirements, cadets are commissioned in the U.S. Air Force and serve a minimum of four years on active duty. A maximum of 12 hours is allowed for the POC.

Two-Year Program:

Students not enrolled in the GMC may apply to enter the POC under the Two-Year Program. In order to enter the POC, Two-Year Program applicants must successfully complete a six-week training encampment. The Two-Year Program is more limited than the Four-Year Program. Interested applicants should contact the Professor of Aerospace Studies at UTSA (210-458-4624) during the fall semester prior to their last two years at Trinity.

Flight Training:

The AFROTC has a very competitive program for qualified people who desire to become a pilot or navigator. There are particular physical qualifications, which include vision, height/weight, Air Force Officer Qualifying Test scores, and health history. AFROTC pilot candidates attend Introductory Flight Training, which pays for a private pilot's license if the member does not have one already.

Scholarships and Remuneration:

Air Force ROTC offers 4-, 3-, and 2-year competitive scholarships. Four-Year Program cadets may compete for all scholarships, while Two-Year Program applicants can apply for 2-year scholarships. All scholarships provide tuition and fee assistance, a book allotment, plus $250-$400 a month subsistence allowance. These scholarships are awarded solely on academic merit. Students interested in applying for a scholarship should contact the Professor of Aerospace Studies at UTSA.

All students enrolled in the POC and contracted to the U.S. Air Force will be paid a $350-$400 a month subsistence allowance.

Uniforms and Equipment:

All uniforms, textbooks, and other equipment will be issued to students enrolled in Air Force ROTC courses. Students are responsible for the maintenance and upkeep of all items issued them.

Air Force ROTC Offices (210-458-4624) are located on the fourth floor of the Multidisciplinary Studies Building (MS 4.03.36) on the University of Texas at San Antonio campus.

ARMY RESERVE OFFICER TRAINING CORPS PROGRAM
The Army Reserve Officer Training Corps (ROTC) program is offered at Trinity University through a crosstown agreement with St. Mary's University. Trinity students may attend Army ROTC classes at St. Mary's as part of their Trinity curriculum. Students who meet all Army ROTC standards will be commissioned as officers in the United States Army upon degree completion from Trinity. The Army ROTC program is offered regardless of a student's major and does not of itself lead to a degree. A maximum of 18 credit hours may be taken.

In addition to the courses described below, a Leadership Laboratory is held every Wednesday afternoon for two hours to further the development of leadership skills through a varied program consisting of field trips, practical exercises, and visits to military installations.

The Professor of Military Science at St. Mary's University and the Army ROTC offices are located at the bottom floor of Treadaway Hall at St. Mary's. The telephone numbers are 210-436-3416 (ROTC Recruiting Operations Officer) and 210-379-1997 (ROTC Enrollment Officer). The e-mail address is rotc@stmarytx.edu.

Four-Year Program:
The Basic Course, usually pursued concurrently with the freshman and sophomore years, is voluntary for students who are physically qualified for military training. There is no obligation incurred by nonscholarship cadets. Veterans who have served on active duty for a period of over one year and who have received an honorable discharge, or High School students who have completed 3 or 4 years of JROTC, may be granted credit for the basic course with concurrence of the Professor of Military Science.

The Advanced Course may be pursued by students who are physically qualified and have met the standards prescribed by the Professor of Military Science in scholastic achievement and demonstrated leadership. Cadets are normally enrolled in the Advanced Course during their Junior and Senior Year or Graduate students pursuing a Master's Degree. They are required to attend a five-week ROTC Leadership Development Assessment Course (LDAC) the summer following their junior year. Upon satisfactory completion of LDAC and the academic work required for a degree, students are commissioned as Second Lieutenants in the United States Regular Army, the Army Reserves, or the Army National Guard.

The Basic Course consists of MS courses at the 1000 and 2000 level. The Advanced Course consists of MS courses at the 3000, 4000, or 5000 level.

Two-Year Program:
In addition to the standard four-year course outlined above, the St. Mary's University Military Science Department offers a two-year program for those who did not have or take the opportunity to complete the normal Basic Course. In order to enroll in the Advanced Course, a student must successfully complete four weeks of leadership training, provided at the Leadership Training Course (LTC) during the summer months prior to beginning their junior year or their first year in graduate school. If students desire to take advantage of this opportunity, they should communicate directly with the Professor of Military Science not later than March 1 of the year preceding the last two years at Trinity University.

Scholarship and Remuneration:
The Department of the Army offers 4-, 3-, and 2-year competitive scholarship assistance to qualifying ROTC students. This assistance consists of payment of 100% of tuition and fees and a $1,200 a year book allotment, plus a grant to the ROTC cadet of $300 to $500 a month during the period of enrollment (not to exceed 40 months). The student need not be enrolled in the ROTC program prior to competing for a scholarship. Students interested in competing for scholarship assistance under this program should contact the Army ROTC Enrollment Officer.

Formally enrolled Advanced Course students who are not under the scholarship program will be given a grant at the rate announced annually by the Secretary of the Army (currently this rate is $450 to $500 per month) not to exceed 20 months. During LDAC, all students are paid at the rate of one-half of the base pay per month of a second lieutenant in lieu of subsistence allowance.

Uniforms and Equipment:
All uniforms, textbooks, and other equipment will be issued to students enrolled in Army ROTC courses. Students are responsible for the maintenance and upkeep of all items issued to them.

Courses:
Students may register for the following courses through St. Mary's University and other participating colleges and universities.

MS 1101 Fundamentals of Leadership and Management 1 sem. hour
Organization of the Army and ROTC, career opportunities for ROTC graduates, and the military as a profession. Customs and traditions of the service. Development of leadership potential, First Aid, and Introduction to Map Reading.

MS 1102 Fundamentals of Leadership and Management 1 sem. hour
Leadership studies of problems facing junior leaders in today's Army in non-combat situations. Effects of technological and sociological change on the military. Continuation of customs and traditions of the service. Development of leadership potential. Basic military skills training.

MS 2201 Self/Team Development 2 sem. hours
Learn/apply ethics-based leadership skills that develop individual abilities and contribute to the building of effective teams of people. Develop skills in oral presentations, writing concisely, planning events, coordination of group efforts, advanced first aid, land navigation, and basic military tactics.

MS 2202 Applied Leadership and Management 2 sem. hours
Military use of maps and terrain analysis with emphasis on practical experiences. Introduction to the leadership techniques required to conduct patrolling, offensive and defensive tactical missions.

MS 3301 Advanced Leadership and Management 3 sem. hours
Performance-oriented instruction in preparation for Advanced Camp. Analysis of psychological, physiological, and sociological factors which affect human behavior. Analysis of leadership and management processes. Techniques in planning, presenting, and evaluating performance-oriented instruction. Prerequisites: MS 1101, 1102, 2201, and 2202, or permission of the Professor of Military Science.

MS 3302 Advanced Leadership and Management 3 sem. hours
Performance-oriented instruction in preparation for Advanced Camp. Development of the student's ability to express himself/herself clearly and accurately, with emphasis on the analysis of military problems, and the preparation and delivery of logical solutions. Analysis of the leader's role in planning, directing, and coordinating the efforts of individuals and small units in the execution of offensive and defensive tactical missions. Prerequisites: MS 3301 or permission of the Professor of Military Science.

MS 4301 Seminar in Leadership and Management 3 sem. hours
Analysis of select leadership and management problems. Responsibilities of the Commander and staff in the areas of administration, personnel, operations and logistics, Introduction to military justice and the Army training system. Prerequisites: MS 3302 or permission of the Professor of Military Science.

MS 4302 Seminar in Leadership and Management 3 sem. hours
Analysis of select leadership and management problems with a concentration on management problem analysis and decision making, planning and organizing, delegation and control, and interpersonal skills required for effective management. Seminars in the role of the officer in the conduct of personal affairs and ethics. Prerequisite: MS 4301 or permission of the Professor of Military Science.

MS 5301, 5302 Advanced Seminar in Military Issues I, II 6 sem. hours
Analysis of various topics concerning the principles of war and the contemporary operating environment. Analysis and discussion of various topics pertaining to the duties and responsibilities of a 2nd Lieutenant. Additional course options are special projects and Ranger Challenge participation based on guidance and approval of the Professor of Military Science.
Science.
Prerequisite: MS 4301 or 4302 or permission of the Professor of Military Science.

CORRESPONDENCE STUDY

Trinity University does not offer undergraduate academic work by correspondence and does not accept such work.
Courses of Study 2011 - 2012

Degree Requirements

THE TRINITY CURRICULUM

Trinity University offers undergraduate programs leading to the Bachelor of Arts, Bachelor of Science, and Bachelor of Music degrees, with majors in 26 departments and programs. Students are thus offered a wide variety of options, broadened further by the great number of individual choices open to them in fulfilling the requirements of their chosen degree programs. At the same time, the University is fundamentally committed to ensuring that all Trinity undergraduate degrees represent the broad and solid base of general learning with an underlying commitment to responsible participation in human affairs, which is called a liberal education.

The Trinity Curriculum has three components. The first is called the Common Curriculum because it provides the foundation in the liberal arts and sciences of all the bachelor's degrees awarded by the University. Through it, all students are introduced to the common life of learning, reflection, and discussion in which they are expected to share during their University years.

A second component of the Trinity Curriculum is the major. This component provides for in-depth study of a field of specialization. The requirements for each major are found in this bulletin in the departmental listings. Students may elect multiple disciplinary majors and/or construct a second, interdisciplinary major in consultation with their major advisers.

The third component of the Trinity Curriculum, the elective courses, enables the student to pursue other personal interests, to explore new areas of learning, or to pursue a minor or a second major.

To receive an undergraduate degree a student must:

- Complete at least 124 semester hours (129 semester hours for a Bachelor of Science in Engineering Science; 132 for a Bachelor of Music, Major in Choral or Instrumental Music, or 141 semester hours for a Bachelor of Music, Major in Performance or Composition). At least 60 hours must be taken outside the major.
- Complete the Common Curriculum.
- Complete at least one major.
- Complete 30 upper-division hours.
- Earn a minimum grade point average of 2.0 in both the major and the entire program of study.
- Satisfy the residency requirement. (See "Residency Requirement" in this section.)

To become eligible for a second, and different, bachelor's degree, a student must earn a minimum of 30 additional semester hours of work in residence beyond the requirements for one degree, 18 of which must be upper division. He/she must also complete courses necessary to meet the specified requirements for the second degree and major. In all the additional courses the student must have at least a 2.0 cumulative grade point average. Two undergraduate degrees can be awarded simultaneously to the same person. However, the two degrees must be of different types, such as a B.A. and a B.S.

A student who completes the requirements for two majors without earning the additional credit required for a second degree will receive a single degree with a double major.

RESIDENCY REQUIREMENT

Trinity believes that its students should fulfill at least half of their degree requirements in residence. With this principle in mind, the University establishes the following minimum residency requirements:

- At least 62 credit hours must be earned in residence to complete a baccalaureate degree.
- At least 15 credit hours of each major must be earned in residence, and at least 12 of those hours must be upper division.
- The last 30 credit hours before graduation must be earned in residence.

Exceptions for study abroad: Students with 62 or more semester hours earned at Trinity who wish to enroll in an approved study abroad program in their senior year may be exempted from the last 30 hours-in-residence requirement. Students who transfer to Trinity with 50 or more credit hours may count up to 15 semester hours of approved study abroad credit toward the 62-hour residency requirement. These same exceptions apply to special semester domestic programs approved by the Office of Study Abroad.

INFORMATION LITERACY AT TRINITY UNIVERSITY

Information literacy is the ability to gather, critically evaluate, and use information creatively and ethically. During their academic careers, Trinity students will receive systematic guidance and practical experience in order to prepare them for the knowledge economy of the twenty-first century. Students will learn to access information efficiently and to use it critically and competently. A systematic and coherent education in information literacy teaches students to understand the information cycle, be aware of search tools and strategies across disciplines, and to use the major resources in their majors.

STUDENT RESPONSIBILITY

This Bulletin is designed to assist the student and academic adviser in planning and scheduling a degree program. Each student at Trinity University should keep in mind, however, that he or she alone is ultimately responsible for understanding and fulfilling all degree requirements.

THE COMMON CURRICULUM
The Purpose of the Curriculum

The Common Curriculum reflects Trinity’s commitment to the liberal arts and sciences. The Curriculum is meant to establish for each Trinity student a basis for understanding the varied domains of human knowledge and experience. The Curriculum also includes skills necessary for active, critical, and creative participation in the academic life of the University. Paramount among those skills are the abilities to think creatively and critically, and to express such thinking effectively both orally and in writing. Together, those understandings and skills are necessary for the personal, lifelong quest for understanding of oneself and one’s place in the world, and the serious commitment to respond to the opportunities and needs of society and self, which are true marks of a liberally educated person. The Common Curriculum consists of the following:

I. The First-Year Seminar and Writing Workshop

A. The First-Year Seminar (FYS)

Every new student must enroll in a First-Year Seminar (GNED 1300 or GNED 1301) in the first year at Trinity. Major primary works in any of the fields traditionally included in the liberal arts and sciences are assigned for study and discussion in the seminars, which serve both to induct the students into an intellectual discussion of substantive issues, and to enhance their speaking, writing, and bibliographic skills. A new transfer student with 26 semester hours of transfer credit or whose high school graduation date is a year or more prior to his or her matriculation at Trinity is exempted from the First-Year Seminar requirements. The total number of hours required for any Trinity degree shall not be reduced by an exemption from the First-Year Seminar.

B. The Writing Workshop

The Writing Workshop addresses itself to the refinement and enhancement of skills in critical reading, analysis, judgment, and written composition, making sure that students are proficient in the use of these essential tools early in their academic careers.

With few exceptions, first-year students will enroll, during their first year at Trinity, in a section of the Writing Workshop. The exceptions are: (1) students who have a score of 5 on the Advanced Placement Test in English Language and Composition, or the Advanced Placement Test in English Literature and Composition; or (2) students who transfer an equivalent course from another institution.

C. Four Options for Fulfilling these Requirements

1. First-Year Seminar and Writing Workshop in consecutive semesters with separate topics/foci.
2. Conjoined sections of First-Year Seminar and Writing Workshop under a single topic with multiple sections, each section earning six hours of academic credit (for example, HUMA 1600).
3. First-Year Seminar under a single topic with multiple sections and a consecutive, non-aligned section of Writing Workshop (for example, the First-Year Seminar in Science and Religion in the fall/Writing Workshop in the spring).
4. Individual sections of First-Year Seminar conjoined with individual sections of Writing Workshop in a given semester - fall or spring.

II. Foreign Language, Information Technology, and Mathematical Skills

Given the importance of skill in the use of foreign languages, of proficiency in the use of information technology, and of an understanding of mathematical reasoning for contemporary liberally educated graduates, the Common Curriculum sets these standards. Students are encouraged to go beyond the minimum in all these areas.

A. Foreign Languages

Study of a foreign language is an essential part of a liberal arts education. Students are encouraged to continue their study of a foreign language and to study new languages. The University requires two years of a foreign language (either ancient or modern) for admission. To graduate from Trinity, students must reach a minimum level of competence corresponding to that attained after successful completion of the first semester of the second year of college foreign language study (courses number "2301"). Students can fulfill this graduation requirement by:

- Successfully completing a third-semester (intermediate) language course or higher at Trinity University, or receiving transfer credit for such a course
- Receiving an acceptable score on the Advanced Placement (AP) Test, the International Baccalaureate (IB) Exam, or the SAT II Language Exam
- Taking the third year of a single language in high school and receiving a B or better in the final semester of the last year
- Passing a language placement exam offered by the Department of Modern Languages and Literatures or the Department of Classical Studies

B. Information Technology (IT)

Students must be able to use information technology to collect, organize, analyze, create, and communicate information in an academic environment. We expect all students to augment their IT skills in the following areas, since a Trinity curricular emphasis is information literacy:

1) Basic computing (hardware, software, files, and formats);
2) Text production (using, e.g., desktop publishing software);
3) Quantitative analysis (using, e.g., spreadsheet software);
4) Information management (using, e.g., database software);
5) Image processing (using, e.g., graphics/drawing/photo software);
6) Communications (using, e.g., networks, wikis, and the Internet); and
7) Information Ethics (e.g., privacy, legal use and citation of software and data, etc.).

There are approved courses designed around the above activities and including both instruction in, and hands-on use of, computers, network resources, and related technologies. Students must fulfill this requirement by successful completion of one of the approved courses or of the IT Skills exam given during their first year. Students must complete the IT Skills requirement by the end of the first semester of the sophomore year.

C. Mathematics

The University requires completion of three years of college preparatory mathematics, including either trigonometry or pre-calculus for admission as a first-year student. Further development of the quantitative ability of all students is required as part of Understanding Quantitative Reasoning.

III. Fitness Education

Students should possess basic knowledge, understanding, or skills that will help them to make good decisions relating to health throughout life. The premise underlying this objective is that students will be more likely to engage in a healthy lifestyle of exercise and physical activity throughout their lives if they

(a) possess the necessary skills to participate in a lifetime sport or activity, or
(b) understand fitness and its importance, or
(c) understand exercise and physical activity, and their importance.

This requirement must be satisfied by the completion of one approved course.

IV. The Understandings

- Understanding Cultural Heritage
- Understanding the Arts and Literature
The Common Curriculum is designed to involve all students in learning in these fundamental areas, which represent the essentials of a liberal arts education. The courses will, where appropriate, include the development and demonstration of writing and speaking skills.

In order to ensure breadth in the Common Curriculum, the following restrictions apply:

1) A student may take no more than seven hours in a single department to satisfy these requirements.
2) In no case may a student apply a single course to satisfy more than one of the Understandings.
3) Should a given course be certified as meeting the criteria of more than one of the Understandings, students taking that course for Common Curriculum purposes must decide, in consultation with their advisers, the Understanding to which it will actually apply.
4) Neither the First-Year Seminar nor the Writing Workshop may be used to meet the requirements of any of the Understandings.

The Understandings

Understanding Cultural Heritage

Understanding the traditions that underlie the world's cultures. Three courses, at least one from each of the following two categories:

- Traditions Indigenous to Africa, Asia, the Americas, Australia, and Oceania
- Greco-Roman, Jewish, and Christian Traditions through the Early Modern Period

Criteria:

- Courses emphasize the cultural traditions indigenous to Africa, Asia, the Americas, Australia, or Oceania.
- Courses emphasize larger historical and cultural processes, with an emphasis on cultural character.

Understanding the Arts and Literature

Understanding the arts and literature as principal ways of expressing and enriching the human spirit, approached through involvement with artistic creation, performance, and theories of production and critique; and with the critical analysis of literary texts. Three courses, at least one from each of the following categories:

- Visual Arts, Music, Performance, and Aesthetic Production
- Literary Studies

Criteria:

- This Understanding reflects the fundamental importance of the arts and literature to a liberal arts education. The courses in this category approach the arts and literature from multiple perspectives. The first subdivision, "Visual Arts, Music, Performance, and Aesthetic Production," emphasizes the production of art as well as theories of production, performance, and historical/cultural analysis. The second subdivision, "Literary Studies," emphasizes the analysis of literary texts in a range of historical/cultural and rhetorical contexts. The goal of courses in both subdivisions is for students to cultivate contextual awareness, intellectual independence, and creative insight through a process of aesthetic engagement.

- Courses emphasize at least one of the following:
  - close study of art work in a range of contexts
  - theories and techniques of aesthetic production and performance
  - active participation in aesthetic production and performance

Literary Studies

Courses emphasize at least one of the following:

- close study of the literary text in a range of contexts
- theories and techniques of literature and literary production

Understanding Human Social Interaction

Understanding the behavior of individuals and groups within social, historical, and institutional contexts, focusing on the ways in which the social sciences and humanities seek to understand human behavior and social cultures, and providing an in-depth investigation of significant social issues and cultural values that help shape individual and social choice. Three courses are required to satisfy this Understanding:

- Approaches to the Social Sciences (2 courses)
- Social Issues and Values (1 course)

Rationale:
This Understanding addresses the broad range of human behavior, along with its causes and consequences. The goals of this Understanding are (1) to explain the behavior of humans in their capacity as individuals as well as social agents through the theoretical and methodological approaches of social sciences disciplines; and (2) to reflect upon formation of cultural values and their complex interplay with human choices and actions.

Criteria:

**Approaches to the Social Sciences**

- Courses utilize at least one of the basic theoretical, analytical, or methodological approaches of one of the social sciences; and
- Courses impart the substantive character of its discipline, elucidating the selected approach or approaches within the broader context of the chosen discipline.

Social Issues and Values

Courses emphasize at least one of the following:

- Ways of comparing, critically assessing, and choosing social values
- Application of values to human choice, social issues, and society itself
- Application of the methods of at least one of the social sciences in understanding a significant social issue or institution

**Understanding Quantitative Reasoning**

Understanding mathematics, symbolic abstraction, and quantitative analysis as modes of cognition and tools in problem solving. (1 course, 3 hours)

**Rationale:**

This Understanding introduces students to methods of thought and language indispensable to a liberal education, to enlightened citizenship in an increasingly technological age, and to understanding of scientific and social phenomena. The goals of this Understanding are (1) to give students an appreciation of the cognitive power of quantitative methods and their applications; (2) to provide them with a framework for problem solving; and (3) to endow them with tools to organize and interpret information and to make informed decisions.

Criteria:

- Courses explore complex problems mathematically and teach problem solving within a structured mathematical framework.
- Courses include symbolic formulation and analysis.
- Courses interpret quantitative results and strive for the understanding of the mathematical apparatus.

**Understanding Natural Science and Technology**

Understanding the foundations and methods of the natural sciences and technology. Understanding ways that natural science and technology impact humans, society, and the environment. Two courses are required to fulfill this Understanding. One course must focus on the fundamentals of a natural science, and one course must actively involve the student in using scientific methods to explore physical or biological phenomena or technology. One of the two courses may fulfill both the natural science and use of scientific methods requirements. (2 courses, at least 6 hours)

**Rationale:**

This Understanding addresses the need of all students to understand the implications and benefits of science and technology, along with an appreciation of the potential and the limits of science and technology to address societal needs. The goal of the courses in this category is to promote greater literacy in science and technology by teaching students to understand the fundamental nature of science, the methods and results of the natural sciences, the methodologies of science and technology, and the relationship between science and technology.

Criteria:

All courses study the methods and results of the scientific study of the natural universe or the methods and results of applied science, engineering, and technology. Courses may also focus on the impacts of science and technology on humans, society, and our world. These impacts may include ethical, environmental, social, or philosophical issues. Courses satisfying the natural science and using scientific methods requirements must also meet the following additional criteria:

**Natural Science**

- Courses relate scientific results and methods to phenomena in the natural universe. These phenomena include physical, biological, chemical, and geological processes.
- Courses use the theories, results, and methods concerning one or more of these classes of phenomena.

**Using Scientific Methods**

- These courses actively involve the student in using scientific methods to study physical or biological phenomena or technology.
- Activities should include understanding the design of experiments, acquisition of data, analysis of data, drawing conclusions, and the testing of conclusions.
- These activities may be integrated in the course or may take place in a coupled laboratory course.

**THE MAJOR**

The candidate for a baccalaureate degree must fulfill the requirements for a major in one of the departments or in one of the interdisciplinary majors listed in the Courses of Study Bulletin. Official admission to a major program occurs in the sophomore year, although the student may begin taking courses in the major department before official admission. A student may apply to major in two departments.

After students achieve sophomore standing and before achieving junior standing (58 credit hours completed), they must apply for admission to the chair of the department in which they wish to major or to the chair of the committee administering the chosen interdepartmental major. Students may be accepted without conditions or accepted on a provisional basis. Provisional status, if imposed, should be noted on the form. At the end of the provisional period, the chair will notify the student and the Office of the Registrar of the final decision of the department.

Application forms for declaring a major are available in the Office of the Registrar. As part of the application process, students are strongly encouraged to complete an online evaluation of the first-year advising program.

**INTERDISCIPLINARY SECOND MAJOR**

Students may create their own second major. This interdisciplinary major is designed and pursued in close conjunction with faculty in the relevant departments and approved in advance by the beginning of the junior year by the interdisciplinary second major program (ISMP) council on individually designed majors. It is the responsibility of the student to select the courses that will make up his or her interdisciplinary second major and to demonstrate that these courses construct a rigorous and comprehensive learning path not possible under a currently existing major.

**BEYOND THE CLASSROOM: TRINITY UNIVERSITY'S INTENSIVE LEARNING EXPERIENCE**

http://web.trinity.edu/x10261.xml?PrintFriendlyPage

11/10/2011
Students may earn credit for intensive academic experiences that take place outside of the normal classroom environment, and outside the conventional academic schedule. Examples include, but are not limited to, research projects, field trips, theater productions, and travel for musical performance or language study. They involve close guidance, supervision, or collaboration with individual faculty who organize and administer the courses. For policies governing these courses, consult the "Proposal to Create a Beyond the Classroom Experience" on the University Curriculum Council web page: http://www.trinity.edu/departments/academic_affairs/ahome/curriculum/curriculum.htm.

THE MINOR

A minor consists of at least 18 semester hours, no fewer than nine of which must be taken at Trinity, and no fewer than nine of which must be upper division. (Exception: for the requirements for a minor in French, German, Russian, or Spanish, see the Modern Languages and Literatures section of this bulletin; for the requirements for a minor in Greek or Latin, see the Classical Studies section.) Consult the appropriate departmental section of this bulletin for specific courses required for each minor. Courses counted toward a minor may not be taken Pass/Fail unless the course is offered exclusively on a Pass/Fail basis. A minor is not required for the completion of any Trinity degree.

GRADUATION WITH HONORS

Departments/Major Honors

Students who have maintained their scholastic standing on high levels and who complete a thesis supervised by a faculty member in the department of the major may be candidates for Departmental Honors. Not all departments offer the opportunity for Departmental Honors; consult the course listings of the individual department or program in this Courses of Study Bulletin.

The minimum requirements qualifying a student for Departmental Honors include a 3.33 grade-point average, both cumulatively and in the major. Individual departments may require a higher grade-point average in departmental courses, but not a higher overall grade-point average.

In addition to the grade-point requirements, a minimum of 6 hours of thesis credit must be acquired during the last three semesters before graduation. This curricular option, entitled Thesis, may also be available to students who are not candidates for Departmental Honors. In all cases the thesis provides students with the opportunity for independent scholarly, scientific, or artistic work. Students may enroll for thesis credit only with the permission of the instructor who will be the adviser. Grounds for faculty decisions may include faculty load, appropriate expertise to guide the particular project, and the willingness of the faculty member to serve as adviser.

In anticipation of completion of the 6 hours of Thesis and the grade-point requirements, the student may become a candidate for Departmental Honors by addressing a written request for consideration to the chair of the department. The request must be received no later than the end of the first full week of the student's final semester at Trinity.

Additional requirements for candidacy vary according to the department but minimally include the oral and written presentation of the thesis to a committee of no fewer than two members of the faculty: the adviser and a reader with appropriate expertise in the area of the thesis. Based on the quality of these presentations, the committee makes the recommendation to award Departmental Honors to the department chair. If the award is made by the department, copies of the thesis are submitted to the Office of Academic Affairs. Students have three options for depositing their theses with the University, and each student should discuss these options with their thesis adviser. The first option is the submission of the thesis in electronic format for deposit in the Trinity Digital Commons. It will be accessible through the Internet to anyone and indexed by search engines like Google. For those who would prefer that their theses not be viewable outside the Trinity campus, there are two other options. (This may be a concern, for instance, if the student intends to submit the thesis for publication to a journal which considers digital archiving to be "previous publication.") One is for the library staff to add the thesis to the Digital Commons but restrict its viewing to campus computers only, thereby treating the thesis as a traditional library print copy. Only the thesis title and abstract will be available to Internet users off-campus. The final option is to submit a traditional print thesis. The costs of binding will be paid by the student. The student can provide the University with two bound copies of the thesis. The award will be indicated by a designation of Departmental Honors on the student's transcript. If the award of honors is denied, the thesis will be considered for non-honors thesis credit.

University Honors

Students who have maintained their scholastic standing on high levels will graduate with Honors. Students acquiring a grade-point average of 3.875 will receive their degrees summa cum laude; students acquiring a grade-point average of 3.750 will receive their degrees magna cum laude; and students acquiring a grade-point average of 3.500 will receive their degrees cum laude. The grade-point average is determined by dividing the total number of grade points earned by the total number of semester hours attempted and the average is not rounded. Honors will be determined on the basis of four years of undergraduate work, 60 semester hours of which must be taken at Trinity University. Students transferring from other institutions will be required to submit all of their grades, but the average grade for the purpose of determining honors shall not exceed the average of their work taken at Trinity University. (Exception: Grades earned in approved Study Abroad programs are not included in the calculation for graduation with Honors.)

PHI BETA KAPPA

Phi Beta Kappa, the nation's oldest and most prestigious academic honor society, founded in 1776, elects students with broad cultural interests and scholastic achievement. The Epsilon of Texas Chapter at Trinity University, installed in 1974, is one of 280 chapters at distinguished colleges and universities in the United States. Selection of student members, or members-in-course, is generally made in the student's senior year, although a few juniors (usually three or four) are elected each year. The names of those elected are announced prior to graduation in the spring semester. Students do not apply for election to Phi Beta Kappa; the Chapter screens student records.

Criteria for election to Phi Beta Kappa are determined by the Chapter under the guidelines of the national organization. To be eligible for election, the student must satisfy certain minimum criteria:

1. Candidates pursuing a single major in Business Administration or a Bachelor of Music degree are not eligible. Those pursuing a single Bachelor of Arts degree with a major in Music ARE eligible.
2. Candidates must have completed a minimum of 60 hours of primarily liberal arts coursework at Trinity by graduation. Candidates for election as juniors must have completed a minimum of 75 hours of primarily liberal arts coursework at Trinity at the time of the election.
3. Candidates must have completed at least one three-hour course in Mathematics at the level of calculus or higher. Pass/Fail work is not accepted.
4. Candidates must have completed at least one course in a foreign language at the intermediate level or higher. Pass/Fail work is not accepted.

Criteria 3 and 4 are not satisfied by high school experience. Advanced Placement and transfer credit are accepted. Those who are eligible, based on the above minimum standards, are ranked on the basis of grade point average. Those who do not meet the minimum criteria may be nominated for membership by individual members of the chapter.

Contact the Office of Academic Affairs for further information.

PREPROFESSIONAL PROGRAMS

Trinity University offers preprofessional programs in health professions and law. Many of the professions require or recommend the completion of a liberal arts degree before the student begins his or her specialized work. Variations in programs can be arranged to meet individual needs. Students who plan graduate work are urged to make early selection of the graduate or professional school in order to meet the entrance requirements of the chosen institutions. Current catalogs of graduate and professional schools are on file in the reference section of the library.

Trinity University provides individual guidance for students who plan to enter professional schools. Students are invited to contact the chair of the appropriate committee.

Health Professions Advisory Committee
The Health Professions Advisory Committee (HPAC) develops plans for students to progress through sequences of preparatory work required for postgraduate study in the professions of medicine, dentistry, and certain allied health fields. Dr. James Shinkle is the chair of the committee, and Dr. Jonathan King serves as associate chair.

The Health Professions Advisory Committee establishes the policies and procedures for students who plan to enter the medically oriented professional schools. Applications to medical, dental, and veterinary schools are routinely made through the HPAC administrative office. Certain other allied health schools also require that applications be made through the HPAC. Students indicating preprofessional interests in medicine or related fields will be assigned to a faculty member familiar with health professions curricula starting with the first advisement.

Though medical schools and medically related professional schools do not require their entering students to have majors in any particular fields, they do have specific entrance requirements and great care is exercised by the committee in advising preprofessional students. For example, Texas state medical schools list the following prerequisites: one year of college English; one-half year of college calculus; two years of biology; one year of general and one year of organic chemistry; and one year of physics.

The science courses (biology, chemistry, physics) must be those designed for science majors and must include laboratory work. A premedical or predental student should plan on taking two of these courses per semester for one or two years of college, often beginning in the first year. All of the prerequisite science courses are usually completed in six semesters. Admissions committees may waive some of these course requirements if competency can be established on the basis of previous work. These decisions are made by individual professional schools on a case-by-case basis, and the preparation of a request for waiver is done in consultation with the student's premedical adviser and the chair of the HPAC.

Prelaw Advisory Committee

The Prelaw Advisory Committee provides individual guidance and counseling for Trinity students who plan to enter law schools. Students currently enrolled at Trinity who become interested in applying to law schools late in their academic careers can request an appointment with the committee member closest to their major for review of their academic achievements. Dr. John R. Hermann is the chair of the committee.

Law schools do not usually require specific courses as prerequisites to application. Therefore, advisers will recommend courses that they consider useful for success in law school and law-related careers in light of each student's particular academic background.

GUIDANCE FOR STUDENTS INTERESTED IN MINISTRY

The University Chaplain, Reverend Stephen Nickle, supports a program of exploration, guidance, and counsel for Trinity students who are interested in careers in ministry. The program is one of vocational clarification tailored to the needs and questions of individual students. It consists of exercises in faith development, participation in initiatives in ministry, reflection on interactions with congregations, and accessing national resources for students intrigued by such professions.

Seminar in rabbinic schools do not usually require specific courses as prerequisites to application. Therefore, the Chaplain will discuss disciplines that will prepare students for success in ministerial education and careers in light of each student's particular academic background.

GENERAL DEGREE REGULATIONS

AWARDING OF DEGREES

Upon the recommendation of the faculty and the approval of the Board of Trustees, Trinity University confers the degrees of Bachelor of Arts, Bachelor of Science, and Bachelor of Music. (For graduate degrees, see the section on Graduate Studies.) Only those candidates who have fulfilled all scholastic requirements for a degree and who have met their financial obligations to the University will be recommended for the degree.

APPLICATION FOR A DEGREE

A candidate for an undergraduate degree must file an application for the degree in the Office of the Registrar. Dates are specified in the University calendar as deadlines for applying for degrees. Candidates for degrees at winter commencement must apply by the last class day in April; candidates for spring commencement must apply by the first day of classes in December; and candidates for summer graduation must apply by the last day in June.

Candidacy for a degree is not complete until all financial obligations are met. A degree candidate must be registered in the semester or summer term in which the degree will be awarded. If the student is not registered for credit or for study abroad, the student will register for SPCL 4099. There will be a fee of $200 for registration for SPCL 4099. Registration for SPCL 4099 will be considered as less than one-fourth time for purposes of registration certification.

A degree candidate must be present for commencement exercises unless he/she submits a written request for permission to graduate in absentia to the Registrar at least two weeks prior to commencement.

BULLETIN REQUIREMENTS

A candidate for an undergraduate degree must meet the requirements as outlined in the Courses of Study Bulletin for the year of his/her first enrollment at Trinity University or any subsequent bulletin under which work is taken. In all cases, however, a candidate must complete work for his/her degree within a period of seven years from the date of the bulletin selected. The degree requirements with which a candidate complies must come from a single bulletin.

MUSIC ENSEMBLES

Ensembles may be repeated for credit but no more than 8 semester hours credit (all ensembles combined) may be applied to a degree.

INTERPRETATION OF DEGREE REQUIREMENTS

The interpretation of all degree requirements is the responsibility of the Office of Academic Affairs and the Registrar. Problems related to degree requirements should be referred to the Registrar, the faculty adviser, or the department chair. For exceptions to policy in academic matters, students should consult with the Office of Academic Affairs; new students and other students without a declared major may consult the Office of Academic Affairs.
Courses of Study 2011 - 2012

Academic Regulations

SEMESTER HOURS

A semester hour, in its usual application, is one 50-minute period of recitation or lecture, or three such periods of laboratory work, each week for a semester of 15 weeks. The usual semester's work in any one course gives three semester hours of credit. Each lecture or recitation hour presupposes an average of two hours of outside preparation on the part of the student.

A minimum of 124 semester hours is required for a baccalaureate degree in most majors, except in Engineering Science (129 semester hours), in Choral or Instrumental Music (132 semester hours), and in Music Performance or Composition (141 semester hours).

ACADEMIC WORKLOAD

Payment of full tuition permits an enrollment of 12-18 hours per semester. An undergraduate student is regarded as being enrolled full time if the student is registered for 12 semester hours of course work in the fall and spring semesters, or for six hours of course work in the summer. Students who wish to take more than 18 hours during one semester, or 36 semester hours in one nine-month academic year, must receive a waiver of the university policy from the Office of Academic Affairs (prior approval needed from faculty adviser).

An undergraduate student in the final semester prior to his or her graduation is regarded as being enrolled full time if the student is registered for one or more semester hours of coursework representing the remaining degree requirement.

To be considered full time for financial aid purposes, an undergraduate must be enrolled in at least 12 hours at the end of the add/drop period of each enrollment term (summer, fall, or spring), including the final semester prior to his or her graduation. Financial aid may be available for undergraduate students who enroll for fewer than 12 hours per term.

UNDERGRADUATE ENROLLMENT IN GRADUATE COURSES

Students who have nearly completed the requirements for a bachelor's degree at Trinity are occasionally permitted to enroll for a limited number of graduate courses.

Undergraduate students at Trinity will be permitted to enroll in 5000-level courses and receive credit toward their baccalaureate degree under the following conditions: In order to qualify, a student must be within 30 hours of graduation, have an overall grade point average of 3.50, and an average of 3.75 in his/her major field. The student is required to have approval from the chair of his/her major department and also approval from the Vice President for Academic Affairs. If a student wishes to enroll in a course in a department other than his/her major field, additional approval from the chair of the department offering the course is needed. Students are limited to one 5000-level course each semester and are required to have separate approval for each semester in which they wish to take a graduate course. They are not required to apply for graduate admission. The graduate credit hours may not be applied to both the graduate and undergraduate degrees.

CLASSIFICATION OF STUDENTS

Students are classified on the following basis:

Graduate  Completion or near completion of the requirements for a baccalaureate degree and admission to one or more graduate classes for graduate credit.
Senior  A minimum of 88 semester hours on record.
Junior  A minimum of 58 hours on record.
Sophomore  A minimum of 26 semester hours on record.
First year  Fulfillment of entrance requirements and less than 26 semester hours on record.
Postgraduate  Baccalaureate degree and enrollment in undergraduate courses for undergraduate credit.
Special  A student taking courses at Trinity with temporary permission and not a candidate for a degree from Trinity.
Noncredit  Recipient of full instructional attention and participation in class without academic credit. No course taken as noncredit may subsequently count for credit unless the course is repeated.

GRADES

The grading system at Trinity involves letter grades which are assigned a quality point value per semester hour of credit as follows:

A.......................................................... superior........................................................... 4.000
A student may register for an elective course on a Pass/Fail basis and not be in competition with majors in that field for a course grade. This option is intended to encourage the

A-                                                                                              3.667
B+                                                                                              3.333
B+                                                                                              3.333
B                                                                                              3.000
B                                                                                              2.867
C+                                                                                              2.333
C                                                                                              2.000
C                                                                                              1.867
D+                                                                                              1.333
D                                                                                              1.000
F                                                                                              0.000
I                                                                                              0.000
W                                                                                              withdraw from course
PP                                                                                              passing in a pass/fail course
FF                                                                                              failing in a pass/fail course
PR                                                                                              in progress (thesis course only)

All A, B, C, and D grades are passing grades. A grade of W is not included in computing grade averages. Grades of I and PR are not included in the grade average. If the student

is unable to finish the thesis during the second semester, the thesis adviser upon evaluation of the work the student has completed to date can change the first semester "PR"

grade to "PP" or "FF". Courses in which F and FF grades are received must be repeated at Trinity to receive credit.

I, PR, W, FF and PP grades carry no grade point average. Hours earned with PP grade will count toward the student's total hours for graduation.

GRADE POINT AVERAGE

The student's overall evaluation is stated in terms of a grade point average. This average is obtained by dividing the number of grade points earned by the number of hours of work

attempted in courses which carry grade points. The student's cumulative grade average is obtained by dividing all grade points earned throughout enrollment at Trinity University

by the number of semester hours attempted in courses that carry grade points. Only grades in courses taken in residence at Trinity University will factor into the grade point

average.

If a student repeats a course at Trinity, all grades for the course will be used in computing the grade average. Only courses that are specifically designated may be repeated for

credit. All other repeated courses will be shown on the permanent record as repeated with grades listed and duplicate credit, if any, deleted.

GRADING IN MAJOR OR MINOR

As part of a student's degree requirements, a cumulative grade point average of at least 2.0 is required on all courses taken in each of the student's major or minor disciplines.

A course taken for a student's major (minor) in which the student earns a grade of D (for example) satisfies the requirements for the major (minor), but the student must have an

overall average on all courses for the major (minor) of 2.0. Should the student choose to repeat a course in which all grade of D (for example) was earned, both grades are included

in determining the grade point average in the major (minor). If a student is a double major, each major is considered separately and without regard to the other major in
determining whether graduation requirements are satisfied. If a course, such as a cross-listed course, is required for both majors, it is included in the grade point calculation for

each major.

GRADING FOR PREREQUISITE COURSES

A student may satisfy the prerequisites for any course at Trinity only by receiving a grade of C- or higher in each of the prerequisite courses.

GRADE REPORTS

Reports of grades for all students are available online from the Trinity University website at the close of each semester. Hard copies of grade reports are available from the Office

of the Registrar upon request by the student. Mid-semester grades of D and F are not permanently recorded but may be sent for information and guidance. The semester grades

become a part of the student's permanent record.

PASS/FAIL OPTION

A student may register for an elective course on a Pass/Fail basis and not be in competition with majors in that field for a course grade. This option is intended to encourage the

student to explore new academic areas without endangering the student's grade average.

Limitations on Pass/Fail registration are:

a. Only one course per semester may be taken Pass/Fail.

b. No course counted for the major or minor and no course being used to meet a Common Curriculum requirement may be taken Pass/Fail unless the course is offered

exclusively on a Pass/Fail basis.

c. Pass/Fail courses must be listed at the time of registration and may not be changed after the date specified in the academic calendar (15 days from start of classes) to a letter

grade basis; conversely, courses taken for a letter grade may not be changed subsequently to Pass/Fail after the 15th class day.

Not all departments permit Pass/Fail registration. Courses which may not be taken Pass/Fail are usually marked on the published class schedule.

INCOMPLETE GRADES
An I, meaning "incomplete," indicates that a student has done work of a passing grade in a course but has failed to do some portion of the required work because of an emergency. An I grade may not be given solely to allow additional time to complete a course. It is the student's responsibility to have this deficiency removed before the end of the first semester following the time of receiving the grade I or the grade will be changed to F.

If no change has been made by the instructor after one semester has elapsed, the Registrar is authorized to change all grades of I to F.

If the instructor involved is no longer connected with Trinity University and the Registrar is unable to communicate with the instructor, the Registrar will record an automatic F.

For the purposes of determining scholastic probation, incomplete grades will not be counted as hours attempted.

REPEATING OF COURSES

Any student who fails a course at Trinity University and then elects to repeat that course must do so at Trinity University. All of the grades for repeated courses will be included in the cumulative grade point average. Credit will only be awarded once for repeated courses unless the course has been designed as "may be repeated for credit."

GRADE APPEALS

Trinity University recognizes that students are responsible for maintaining standards of academic performance established for each course in which they are enrolled. However, the University also recognizes that students should have protection through orderly procedures against prejudicial or capricious academic evaluation. In all cases, the burden of proof rests on the student initiating the appeal.

The procedures for student appeal of semester grades contain the presumption that student grades are the responsibility of the course instructor. As a matter of academic principle, the process of appeal remains in the hands of the teaching faculty. Except for the actions specified in Section 2 and Section 5 below, members of the Administration are not involved in the grade appeal process. Following the decision involved in each step of this appeal process, if the student wishes to appeal to the next level he or she must notify the appropriate party in writing of his or her intent to do so within the first two weeks of the following semester (i.e., fall, spring, summer). (If, in the following semester, the student will be studying away from Trinity or the faculty member will be on leave, then the request for appeal still must be filed within two weeks, but the appeals process will be deferred until the student and faculty member return to Trinity.)

1. To initiate the appeal of a semester grade, the student will speak to or notify the instructor of his or her appeal. Upon initiation of the appeals process (and upon return of both student and faculty member to Trinity, if the appeals process was deferred), the instructor has one week to notify the student of the outcome of his or her review of the grade. If the student remains convinced that the contested grade results from inappropriate or mistaken evaluation of a course grade, then the student may proceed to step two below.

2. To initiate step two, the student will notify the instructor's departmental Chair (or acting department Chair) and explain in writing the grounds on which an appeal is being sought; the instructor will receive a copy of this statement. The student must request the appeal and present the grounds for it no later than the tenth class day of the succeeding Fall or Spring semester.

The chair will attempt to mediate a discussion between the student and the instructor to clarify the matter and suggest possible resolutions. If the Chair happens also to be the instructor involved, then the student may request that the Associate Vice President for Academic Affairs: Curriculum and Student Issues ask another faculty member of the department to receive the student's appeal.

3. If this mediation is unsuccessful, the Chair (or the Chair's substitute) will appoint two tenured members of the department to serve as a review committee, and will notify the student and the instructor of this action. In the case of a General Education or cross-listed course, the instructor's Department will serve as the site for the appeals process. If the student is a major or minor in the Department, the student may ask his or her teacher to be an additional member of the committee. If a small department cannot provide two eligible faculty members to serve on the committee, then the Chair (or the Chair's substitute) will ask a faculty member from a department similar in curriculum and academic evaluation to serve on this committee. Departmental review committees may be convened only during an academic semester.

The departmental review committee will receive written statements from both the student and the instructor, as well as copies of any graded work involved. In addition, both the student and the instructor (and the student's academic adviser, if requested) may be present for the duration of the hearing (prior to voting), during which both parties may offer clarifying statements. The department Chair will also be present at the meeting, but will not be involved in the determination of the appeal. If, after considering these statements, the committee decides that there has been no breach of proper or stated procedure in the determination of the grade, the Chair (or the Chair's substitute) will give written notification of this decision to the student and the instructor.

However, if the departmental committee determines that there has been an improper evaluation, the Chair (or the Chair's substitute) shall advise the instructor to reconsider the student's semester grade in a manner consistent with proper and stated procedures. If the instructor rejects this advice or fails to comply in a manner satisfactory to the committee, then the committee may undertake an evaluation of the student and work in question and assign the grade it deems appropriate.

4. If either the student or the instructor contests the decision of the departmental committee, the student or the instructor may pursue a further appeal. The student or the instructor will submit a written statement to the Chair of the Faculty Senate who, with the advice and consent of the Chair of the University Curriculum Council, will appoint three members of the faculty from outside the department in question. All three members of this Faculty Grade Appeals Committee should come from one or more departments similar to the instructor's department in terms of curriculum and student evaluation. The findings of this committee will determine the final semester grade.

5. If either the student or the instructor contests the decision of the Faculty Grade Appeals Committee, the appellant may petition the Vice President for Academic Affairs for further consideration, who may then rule in one of three ways, the outcome of which will conclude the University process of grade appeal:

a. That the decision of the Faculty Grade Appeals Committee will stand as rendered;

b. That the Faculty Grade Appeals Committee reconsider its findings and render a decision based on the reconsideration; or

c. That the Chair of the Faculty Senate, with the advice and consent of the Chair of the University Curriculum Council, appoint a new Faculty Grade Appeals Committee, composed of three tenured faculty members who have not previously participated in the appeal. This committee will hear the appeal and render a final judgment.

DEAN'S LIST

In order to merit the honor of being placed on the Dean's List, a student must have completed 15 or more grade point carrying hours of credit in one semester and have earned a grade point average of 3.65 or above. Names of students achieving this distinction are published at the close of each semester.

ACCESS TO RECORDS

The University complies with the provisions of Public Law 93-380, the Family Educational Rights and Privacy Act. Prescribed educational records of students are open to their inspection upon formal request, in accordance with federal regulations. Every effort is made, within the letter and the spirit of the law, to prevent release of data and records to third parties, except upon specific request of the student.

Requests to inspect records should be addressed to the appropriate University official as follows:

Academic records
Registrar
Personal records of students: Vice President for Student Affairs
Teacher education records: Chair, Department of Education
Financial aid records: Director of Financial Aid
Financial records: Associate Vice President for Fiscal Affairs
Graduate personal records: Chair of the department of graduate major

Letters of recommendation and student rating sheets supplied in the admission process are used as working papers only and do not become a part of the permanent educational record of the student.

TRANSCRIPTS OF CREDIT

Transcripts of credit will be issued by the Registrar to all students and former students requesting them, subject to certain conditions. One of these is that all amounts owed to the University must be paid. Official transcripts of credits will be forwarded directly to the student or to a recipient designated by the student.

Because of limitations posed by privacy laws, transcript requests should be made in writing.

As a courtesy to current and former students, official transcripts will normally be prepared at no charge. Transcripts usually require three full working days to be prepared and mailed. Rush delivery requests are accepted but will incur a service fee of $10 plus any additional postage. At the end of a term, ten working days after the date grades are due may be required to issue transcripts including current grades and graduation information.

ACADEMIC STANDING

GOOD STANDING

Good standing refers to the academic progress of students who are not on probation or on academic dismissal. The minimum requirements for academic good standing are as follows:

A. 1.80 cumulative GPA for first semester students who have attempted at least 12 semester hours.
B. 2.00 cumulative GPA for students beyond the first semester who have attempted more than 12 semester hours.

SATISFACTORY ACADEMIC PROGRESS

I. Students who carry a full load of courses are expected to make satisfactory progress toward completion of a degree within a reasonable time. The standards for Satisfactory Academic Progress (SAP) are as follows:

A. Students must average at least 12 hours per semester.
B. Students must complete at least 24 hours per academic year unless on an officially approved leave.
C. Students who enroll mid-year must complete at least 12 hours prior to the start of the fall semester.
D. Summer hours earned after matriculation may be included in the calculation of SAP.
E. Credit by examination and transfer hours earned prior to matriculation may not be included in the calculation of SAP.

II. Student-Athletes

For students who officially represent the University in intercollegiate athletics sanctioned by the National Collegiate Athletics Association, Satisfactory Academic Progress will be evaluated by the Registrar once a year at the end of the Spring semester. To be eligible to participate in NCAA-sanctioned athletics during a given academic year, student-athletes must satisfy the standards for SAP prior to the beginning of the Fall semester and must also be enrolled for at least 12 hours during the semester in which competition takes place.

III. Transfer Students

A. A transfer student will be expected to fulfill the standards for Satisfactory Academic Progress (SAP) as stated above in Section I.
B. A transfer student's academic good standing will be measured only on grades earned at Trinity University.

SATISFACTORY PROGRESS REQUIREMENTS FOR UNDERGRADUATE FINANCIAL AID RECIPIENTS

In order to receive financial assistance, a student must be making satisfactory academic progress toward a degree in accordance with policies established by Trinity University as required by the Department of Education. For a full definition of satisfactory academic progress for financial aid, please refer to the financial aid section of this Bulletin.

PROBATION AND DISMISSAL

Only students whose scholastic averages are maintained at or above good standing will be permitted to continue in the University.

Student records are reviewed by the Committee on Academic Standing at the end of each semester and the summer session. Students are placed on probation when grade averages drop below the following standards:

1. 1.80 cumulative - for the first semester students who have attempted at least 12 semester hours.
2. 2.00 cumulative - for students beyond the first semester who have attempted more than 12 semester hours.

Students will be placed on probation after two consecutive semesters in which less than a 2.0 semester average is achieved.

All courses, regardless of content, are used to determine classification although only those courses carrying grade points are used in determining averages.

To remove the probation, the student must earn a 2.0 semester average the following semester and continue to maintain the required cumulative average. Students who earn a satisfactory semester average (at least 2.0) and make substantial progress toward achieving the required cumulative average (usually 2.0) in the next semester will be continued on probation. Students who fail to remove probationary status and do not satisfy the requirements to be continued on probation within one semester will be placed on temporary dismissal from the University for one semester. Exceptions to this policy may be granted in extenuating circumstances on appeal from the student to the Academic Standing Committee.
Students placed on temporary dismissal must apply to the Office of the Registrar for readmission at least one month before the start of the semester for which they want to re-enroll. If readmitted, the probationary student has one more semester of enrollment to achieve good standing or to make substantial progress toward achieving good standing allowing an additional semester of enrollment.

A student dropped from enrollment a second time for scholastic deficiency is permanently barred from the University.

Students on probation may enroll for no more than 13 semester hours of courses carrying grade points.

Probation may not be removed by study done at another college. Students barred from Trinity University for scholastic reasons may not transfer credit earned at another college or university during the time they are barred from Trinity, unless they receive special written permission from the Vice President for Academic Affairs to take the work they propose to transfer.

A student dropped from the University for any duration by the Committee on Academic Standing may appeal the decision, but the appeal must be made in writing by the student within ten days of the decision, stating reasons for the appeal and explaining any extenuating circumstances. The appeal should be addressed to the Office of the Vice President for Academic Affairs. Students should request their faculty advisers to submit a recommendation regarding their appeal.

If readmitted, the student will be notified in writing and the conditions of reinstatement will be stated in the notification.

DISMISSAL FROM A CLASS AND STUDENT ATTENDANCE

The University expects regular class attendance by all students. The instructor in each course is expected to state an attendance policy in the course syllabus. Each student is expected to familiarize himself or herself with this policy at the beginning of each course.

Instructors then have the prerogative of informing the Registrar to drop or withdraw a student from a course for nonattendance within the published deadlines for such actions. After the last date to withdraw, a student dismissed from the class roll for excessive absences will receive an F in the course.

Absence from class does not constitute official withdrawal from the class or from the University. A student must initiate withdrawal from the class or from the University in the manner prescribed for "Withdrawal from a Course" or "Withdrawal from the University" in this bulletin.

POLICY REGARDING DISRUPTION OF CLASS

Students will not be permitted to behave in such a manner as to disrupt the orderly conduct of classroom activities. When such behavior occurs, it is the responsibility of the instructor to discuss the matter with the student involved, warning the student that continuation of such behavior may result in dismissal from the class. If the behavior continues, the faculty member may drop the student from the class. Notification of such action shall be communicated in writing to the student, the student's faculty adviser, the department chair, and the Vice President for Academic Affairs. This notification must include a statement of the reasons for the decision and a summary of the appeal procedures. The student has a period of two school days in which to file a written appeal with the Vice President for Academic Affairs. A copy of the dismissal notification will remain in a file created for this purpose in the Office of Academic Affairs; the copy will be destroyed when the student is graduated. If the dismissal from class occurs before the published deadline for withdrawal from a class, the student will receive a grade of "W" in the class; if it occurs after the deadline, the grade will be "F."

REPRESENTATION OF THE UNIVERSITY BY A STUDENT

Any student who represents the University in any public manner as a member of a music or dramatic organization, delegate to any association meeting or convention, or as an officer of any of these organizations must be enrolled as a full-time student, must have a passing grade in at least 9 of these semester hours, and must have earned 9 semester hours of credit during the last semester attended.

Candidates for the athletic squads must be accepted and registered students before they may compete in intercollegiate sports. Eligibility is carefully checked at the time of acceptance and reviewed at the end of each semester in the same manner as all other students, in accordance with NCAA regulations.
TRINITY UNIVERSITY

Courses of Study 2011 - 2012

Graduate Studies

GRADUATE STUDIES

Trinity University offers four graduate degrees: the Master of Arts (Education: School Psychology); the Master of Arts in Teaching; the Master of Education (Education: School Administration); and the Master of Science (Accounting and Health Care Administration).

Graduate work was instituted at Trinity University in 1950. The objective of the Graduate Program is to provide students with opportunities to achieve productive scholarship and professional competence in the area of their specialization, with emphasis upon the development of analytical thinking, independent and original research, and effective communication.

The University's Coates Library offers exemplary collections, ample study space, group interaction rooms, and contemporary electronic resources in support of graduate work. Librarians team with faculty in the graduate programs to provide instruction on organizing optimal access to Internet-based tools, including databases specific to each graduate program. Collections of print resources provide research-level support for every graduate program.

COMMISSION ON GRADUATE STUDIES

The Commission on Graduate Studies serves as the academic policy committee for graduate students on all matters related to graduate degrees and programs. The Commission consists of one faculty member from each graduate department, two students appointed by the Graduate Student Association, the Registrar, and the Vice President for Academic Affairs or his or her representative.

GRADUATE FACULTY

As a liberal arts university with selected professional degree programs, Trinity does not maintain a separate graduate faculty. Faculty members selected to teach graduate-level courses will have an earned doctorate (or other terminal degree) in their teaching field and demonstrated research capability, or will be practitioners with at least a master's degree and appropriate training and experience in the professional field they are teaching. The Department Chair is responsible for determining whether a faculty member's qualifications meet the requirements for graduate-level teaching. Eligibility to teach at the graduate level is periodically reviewed in order to maintain viable programs and specialized and regional accreditation.

ADMISSION

BACHELOR'S DEGREE REQUIREMENT

Graduates holding the bachelor's degree from an institution accredited by the appropriate regional accrediting organization and fulfilling all other requirements listed below may be admitted to graduate study in full standing. Graduates of colleges that are not accredited by the appropriate regional accrediting body may be admitted as provisional students at the discretion of the director of graduate studies and the Department Chair. Students who are close to completing the requirements for a bachelor's degree at an accredited university are occasionally permitted to enroll for a limited number of graduate courses at Trinity University. For further information, contact the specific department.

PREREQUISITE COURSE REQUIREMENTS

The requirement for background work varies with each graduate program at Trinity. The department chair or director of graduate study in a department may recommend that prerequisites be waived for superior students or, in certain cases, that prerequisites be taken on the graduate level. Consult individual department listings for specific requirements.

ADMISSION CATEGORIES

FULL ADMISSION - Requirements for full admission normally include:

1) A grade point average of 3.00 or better on the last 60 hours of undergraduate level work and an average of 3.00 or better on all work taken in the undergraduate major field.
2) Acceptable scores not over six years old on the Graduate Record Examination or Graduate Management Admissions Test, if required.
3) Letters of recommendation from individuals familiar with student's ability to pursue graduate study.
4) Departmental acceptance into the Graduate Program.

* Students who have earned at least 18 hours of graduate level credit must have a GPA of 3.00 or better on all graduate course work attempted. Graduate credit may be considered in lieu of undergraduate course work.

PROVISIONAL ADMISSION - Students who are not eligible for full admission may normally be granted provisional admission in cases where:

1) The grade point average is between 2.60 and 3.00 on the last 60 hours of undergraduate level work and/or between 2.60 and 3.00 on all work taken in the undergraduate major.
2) Test scores, if required, are below acceptable levels.
3) Prerequisite work is required.
Departments may require a demonstration of proficiency in the use of research tools, such as foreign languages, mathematics, statistics, or computer languages relevant to the area of graduate study. Such proficiency shall be determined by the department and certified to the Office of Academic Affairs by the chair of the department or director of graduate study in the department, before the student is admitted to candidacy for the degree.

APPLICABLE BULLETIN

Students have the option of completing degree requirements as specified in the Trinity University Courses of Study Bulletin in effect at the time of matriculation provided all requirements are completed within six years (see Time Limit) or following requirements of any later bulletin that satisfies the six-year time limit.

THESIS

Departments may require completion of a master's thesis. Consult departmental listings for specific requirements. Six semester hours of credit are allowed for the thesis.

After admission to candidacy, the student shall request of his or her adviser the formation of a thesis committee. After consultation with the student, this committee will be recommended to the Department Chair by the director of graduate studies of the department in which the student is doing his or her major work. The committee will be composed of two faculty members from the candidate's major field of study and one faculty member from a related department or field of study.

The form of the thesis will be in accordance with instructions specified by the department. A copy should be submitted to the chair of the thesis committee on the date specified by him or her which is well in advance of the due date in the Graduate Bulletin. All members of the committee shall read and approve this draft before the final copies are prepared.

Final approval of the thesis requires acceptance by all members of the committee and approval by the chair of the major department (or director of graduate study) and the Office of Academic Affairs. The student must have four copies of the thesis prepared early enough so that the readers may have time to check the copies carefully before signing the approval pages.

After the thesis has been approved, the four copies will be submitted to the Office of Academic Affairs on or before the date listed in the calendar at the front of this bulletin. Four copies of the thesis will be bound by the University at the student's expense. After binding, two copies will be filed in the library and one copy given to the major department. The student receives the fourth copy.

Candidates for master's degrees with a thesis must be registered for credit or for the thesis in the semester or summer term in which they expect to receive the degree. When a student has previously registered for the six hours of thesis credit, he or she will be expected to register for 6098, for which he or she will receive no credit hours but which will fulfill this requirement. There will be a nominal fee of $10 for registration for 6098.

APPLIED RESEARCH PROJECTS

Some departments require completion of a project as part of the degree requirements. Consult departmental listings for specific requirements. Procedures for submitting the project for approval may vary, and students should consult the department chair or director of graduate study for departmental and divisional procedures. Candidates for master's degrees with a project must be registered for credit or for the project as part of the degree requirement.

INTERNSHIPS AND RESIDENCIES

A number of graduate programs require internships, residencies, or other practicum experience. See departmental listing for specific requirements.

COMPREHENSIVE EXAMINATION

A comprehensive examination, written or oral or both, may be required of candidates for the master's degree. The results of the comprehensive examination must be reported to the Department Chair one week before the student expects to receive the degree. Consult departmental listings for specific requirements.

TIME LIMIT

A student is allowed six years in which to complete the master's degree. Under certain circumstances, the student may revalidate by examination courses that are outdated by the time limit. This can be done only with permission of the Department Chair, the graduate program director of the department, and the Commission on Graduate Studies. It is not possible to revalidate courses that have been transferred from another institution and that are out of date.

GRADUATION REQUIREMENTS

Each student must secure from the Office of the Registrar an application for graduation. The student is responsible for returning the graduation application on or before the date listed in the calendar.

A degree candidate must be present for commencement exercises unless he or she has submitted to the Registrar at least ten days prior to commencement a written request for permission to graduate in absentia.

A degree candidate must be registered in the semester or summer term in which the degree will be awarded. If the student is not registered for credit or thesis extension, the student will register for 6099. There will be a fee of $200 for registration for 6099.

ACADEMIC LOAD

A graduate student taking at least 9 semester hours of graduate work per semester is considered a full-time student. The maximum load during the summer session is 9 semester hours. A graduate student registered for thesis credit or required internship is also considered a full-time student without regard to the number of credit hours. The first semester of thesis extension will be considered full-time enrollment, but subsequent semesters of thesis extension will be considered as less than one-quarter time.

TRANSFER OF GRADUATE CREDIT

Ordinarily, all work for the master's degree must be done at Trinity University. Under some circumstances acceptance of graduate credit for work done in other regionally accredited institutions may be approved by the chair of the department concerned. No course completed with a grade lower than a B will be approved. Up to 10 semester hours but no more than twenty percent of the total degree requirement can be transferred to apply toward a graduate degree. No hours earned toward a completed or previously awarded graduate/professional degree may be transferred. However, students with a previously awarded graduate/professional degree may have up to 10 semester hours but no more than twenty percent of the total degree requirement waived by the chair of the department. Students granted such a waiver may not transfer any credit to apply toward a graduate degree, except on petition to the Commission on Graduate Studies. Furthermore, the GPA of transferred credit will not be applied to meet the GPA requirement for a graduate degree at Trinity. No transfer credit will be accepted or waiver approved until the student has earned 12 semester hours of graduate credit at Trinity University. The six-year limit applies to transfer work as well as to courses taken in residence.
Courses offered by accredited universities at extension centers or other off-campus locations, or in online formats, will be evaluated individually by the Department Chair. Such courses will be accepted only when course requirements and quality standards comparable to regular on-campus offerings can be demonstrated. Credit for work done by correspondence will not be accepted for the graduate degree.

In some graduate programs, students may obtain academic credit for from 3 to 12 hours of graduate work on the basis of previous academic preparation and/or successful experiences. In order to obtain this credit, the student must demonstrate the attainment of objectives identified for the particular course or courses in the program. Candidates may demonstrate the attainment of these objectives by satisfactorily completing a written and/or oral examination administered by the department. The academic credit will be placed on the student's permanent record.

INDEPENDENT STUDY

No more than 6 semester hours of credit in independent study/problems courses may be applied to the student's degree program.

GRADES AND MINIMUM PERFORMANCE REQUIREMENTS

The grading system for all graduate courses is as follows:

A  Excellent - Superior Performance
B  Good - Solid Performance
C  Fair - Marginal Performance
F  Failure - Not meeting course requirements
I  Incomplete
PR In Progress - for thesis or special study/research courses
PP Pass in a Pass/Fail Course
FF Failure in a Pass/Fail Course
NC Non-credit

Departments desiring to offer selected courses only on a Pass/Fail basis may do so with prior approval of the Office of Academic Affairs.

W Withdrawn - Graduate students may withdraw from a graduate course with a grade of W any time up to the time that mid-semester grades are due for that semester or during the first two weeks of summer session. Such withdrawal must be filed at the Office of the Registrar. Non-attendance does not constitute withdrawal from a class. Students may withdraw with a grade of W up to final examination week. However, such withdrawal must be approved by the Department Chair or Graduate Program Director in consultation with the instructor.

Unless the instructor specifies an earlier completion date, grades of "Incomplete" will be changed automatically to "F" in the Registrar's Office after one year. Under unusual circumstances, an extension of time may be granted by the Office of Academic Affairs upon request of the instructor.

No credit course may be changed to "non-credit" after the last day of registration.

Probation and Dismissal:

Probation:

A graduate student will be placed on academic probation following any term in which the student fails to achieve a grade point average of at least 3.00 or receives a grade of "F" in any course, regardless of the level of courses taken and the cumulative grade point average. A student on probation may not hold a graduate assistantship. Academic probation is removed when the student completes a subsequent term and achieves a term grade point average of at least 3.00 with no grade of "F" in any course and a cumulative grade point average of 3.00 in all graduate level courses completed at Trinity University.

Dismissal:

1. A graduate student will be dismissed from the graduate program following any term in which the student earns a grade point average of less than 2.00, regardless of the level of courses taken and the cumulative grade point average.
2. A graduate student placed on academic probation will be dismissed from the graduate program if the student fails to meet the requirements to be removed from probation after attempting nine semester hours.
3. Students dismissed from the graduate program have the option to appeal to the faculty members of the Commission on Graduate Studies. The appeal must be made in writing by the student within 10 days of notification of the decision. When making a decision on an appeal, the Commission will consider the recommendation of the student's academic department.

COMPLETION OF CREDIT COURSES

Credit will not be allowed for a graduate course unless the work of that course shall have been completed and so reported to the Office of the Registrar within one year after official ending of the course.

WITHDRAWAL

After a student has been duly enrolled in a class, he or she is considered a member until he or she has been dropped from the class or has withdrawn from the school. Merely discontinuing class attendance does not constitute a drop or withdrawal. Withdrawal from the University or from a course must be submitted to the Office of the Registrar before final examinations begin.

After mid-semester or the first two weeks of a summer session, a student may withdraw with grades of W only with the approval of the Graduate Program Director. Withdrawal without approval will result in grades of F and dismissal from the graduate program.

GRADES FOR THESIS

A student will receive a grade of PR for 6388 and 6389 if the thesis is not completed at the end of the semester or summer term for which the student registered for thesis credit. Subsequent registrations for 6098 will automatically receive a grade of NC. When the thesis is completed, the thesis director will process a Change of Grade to change the PR to the appropriate grade.

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11/10/2011
Courses of Study 2011 - 2012

Course Numbers and Abbreviations

COURSE NUMBERING

Course numbers at Trinity University consist of four digits. The first digit indicates the level of the course: 1 or 2 designates lower division, 3 or 4 designates upper division, 5 or 6 designates graduate level. The second digit indicates the value of the course in semester hours (credit hours). The third and fourth digits identify specific courses within the subject area.

Thus, a course numbered 1320 would be defined as follows:

<table>
<thead>
<tr>
<th>1</th>
<th>3</th>
<th>20</th>
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<tbody>
<tr>
<td>lower division</td>
<td>(3 credit hours)</td>
<td>(specific course)</td>
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</table>

Faculty advisors or personnel in the Registrar's Office can assist with explanation of course number meanings.

COURSE ABBREVIATIONS

<table>
<thead>
<tr>
<th>ABBREVIATIONS USED IN COURSES OF STUDY</th>
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<tr>
<td>AFAM</td>
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11/10/2011
<table>
<thead>
<tr>
<th>Program</th>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>Classical Studies:</td>
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<tr>
<td>CLAS Classics</td>
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<td>GREK Greek</td>
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<tr>
<td>LATN Latin</td>
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<tr>
<td>COMM Communication</td>
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<tr>
<td>CMLT Comparative Literature</td>
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<tr>
<td>CSCI Computer Science</td>
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<td>ECON Economics</td>
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<td>EDUC Education</td>
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<td>ENGR Engineering Science</td>
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<td>ENGL English</td>
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<td>ENTR Entrepreneurship</td>
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<td>ENVI Environmental Studies</td>
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<td>FILM Film Studies</td>
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<td>GNED General Education</td>
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<td>GEOCS Geosciences</td>
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<td>Health Care Administration:</td>
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<td>HCAD Health Care Administration</td>
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<td>HCAI Executive Program</td>
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<tr>
<td>ENVI Environmental Studies</td>
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<td>FILM Film Studies</td>
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<td>HIST History</td>
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<td>SPAN Spanish</td>
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<td>Music:</td>
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<tr>
<td>MUSC Music</td>
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<td>MUSE Music Ensemble</td>
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<tr>
<td>MUSI Music Instruction</td>
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<tr>
<td>NEUR Neuroscience</td>
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<tr>
<td>PHIL Philosophy</td>
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<tr>
<td>PHED Physical Education</td>
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<tr>
<td>PHYS Physics</td>
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<tr>
<td>PLSI Political Science</td>
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<td>PSYC Psychology</td>
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<td>RELI Religion</td>
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<tr>
<td>SCOM Scientific Computing</td>
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<tr>
<td>ANTH Anthropology</td>
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<tr>
<td>SOCI Sociology</td>
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<tr>
<td>SPCL Special Studies - U.S. and Abroad</td>
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<td>SPMT Sport Management</td>
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<tr>
<td>URBS Urban Studies</td>
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<tr>
<td>WAGS Women's and Gender Studies</td>
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Courses of Study 2011 - 2012

African American Studies

Overview

The minor in African American Studies is an interdisciplinary program that explores the history and culture of persons of the African Diaspora, and in so doing, examines issues of critical importance to the making of the modern world. While focused primarily on the American experience, the program looks beyond U.S. borders to consider the connections between black persons in Africa, Europe, and the Americas as a whole. In addition, the program hopes to foster closer ties between the University and the African American community in San Antonio.

Completion of the program will be indicated on the student's transcript with the notation "Minor in African American Studies."

Students interested in the minor should submit an application to the chair of the Faculty Advisory Committee, who will assign a faculty adviser to the student.

Requirements

The requirements of the African American Studies minor are as follows:

I. Completion of 18 semester hours in the following distribution:

   A. Completion of at least 9 hours from the core curriculum:
      AFAM 1310 (Introduction to African American Studies)
      ANTH 3327 (Contemporary Minorities) (also listed SOCI 3327)
      ENGL 2373 (African American Literature)
      HIST 1300 (The African Experience)
      HIST 1370 (The African American Experience Through Reconstruction)
      HIST 1371 (The African American Experience Since Reconstruction)
      HIST 3304 (Religion in African History)
      HIST 3372 (Black Images in Film)
      MUSC 1349 (African-American Music)
      SOCI 3327 (Contemporary Minorities) (also listed as ANTH 3327)

   B. Completion of remaining hours from the supporting courses:
      AFAM 3310 (African American Studies Internship)
      COMM 3325 (Special Topics in Communication Media: Race and Class in Media)
      ECON 3343 (Slavery and the Atlantic Economy) (also listed as HIST 3384)
      ENGL 2303 (American Literature: Colonization to 1900)
      ENGL 2304 (American Literature: New Realism through the Moderns)
      ENGL 3371 (American Literature of the Nineteenth Century: The Turn of the Century)
      ENGL 4323 (Studies in American Literature: The Circum-Atlantic World)
      ENGL 4323 (Studies in American Literature: Harlem Renaissance)
      ENGL 4325 (Seminar in Literary Periods: Turn-of-the-Century African American Literature)
      ENGL 4326 (Seminars on Individual Authors: Thomas Pynchon and Toni Morrison)
      HIST 1340 (Latin American Cultural Traditions)
      HIST 1360 (The History of the United States Through Reconstruction)
      HIST 1361 (The History of the United States Since Reconstruction)
      HIST 3300 (Gender Matters in African History)
      HIST 3374 (The Old South)
      HIST 3384 (Slavery and the Atlantic Economy) (also listed as ECON 3343)
      MUSC 1346 (Jazz History and Styles)
      PLSI 3302 (Minorities in U.S. Politics)
II. Additional guidelines for the selection of coursework:

A. At least 9 hours of the total shall be upper division courses.
B. No more than 12 hours of the coursework (including cross-listed courses) can be taken from one department to fulfill the requirements of the minor.
C. When departments offer a relevant "special topics" or "variable content" course, the Faculty Advisory Committee may designate such a course as meeting a relevant requirement for the minor.

III. All students are strongly encouraged to enroll in AFAM 1310 (Introduction to African American Studies) and HIST 1300 (The African Experience).

* In special circumstances, students may petition the program's Faculty Advisory Committee for an exemption to a component of the requirements for the minor.

Courses

AFAM-1310 Introduction to African American Studies
An exploration of key issues in African American studies from multiple disciplinary perspectives. Topics may include black literature, Afrocentrism, race and social justice, rap and "world" music, blacks in prison, African American film and visual art, black families, the black middle class, black internationalism, and gender, among others.

AFAM-3310 African American Studies Internship
Supervised on and off campus work in an institution serving the African American community in the greater San Antonio area. The particular institution and internship experience must be arranged and approved by the student, the professor, and the institution selected. Supervision and contact with the professor must be maintained throughout the semester. May be repeated for a maximum of six hours credit. Pass/Fail only.

Faculty

WILLIAM T. BURKE III, J.D., Associate Professor, Business Administration

ANENE EJIKEME, Ph.D., Associate Professor, History

CAREY H. LATIMORE IV, Ph.D., Assistant Professor, History; Co-Chair

KIMBERLYN MONTFORD, Ph.D., Associate Professor, Music; Co-Chair

DAVID RANDO, Ph.D., Assistant Professor, English

MICHAEL SOTO, Ph.D., Associate Professor, English

CLAUDIA STOKES, Ph.D., Associate Professor, English

WILSON TERRELL, JR., Ph.D., Associate Professor, Engineering Science
American Intercultural Studies

Overview

The minor in American Intercultural Studies is designed to develop in students the qualities and skills necessary for intercultural understanding and cooperation in today's diverse society. The minor recognizes that certain historical events and experiences involving race and/or ethnicity in America continue to have a major impact upon the nature and development of intercultural relationships. While underscoring the inextricable connection that exists between the past and the present intercultural dynamic, the minor seeks to enhance positive associations with and among the people of various multicultural communities.

Perspectives coursework focuses on events, conditions, circumstances, major figures and/or movements that are significant to understanding a particular minority group's experience and viewpoint in America.

Dynamics coursework reveals and analyzes the particular contexts that influence or impact intercultural understanding and intercultural relationships.

Completion of the program will be indicated on the student's transcript with the notation "Minor in American Intercultural Studies."

Students interested in the American Intercultural Studies minor should submit an application to the chair of the Faculty Advisory Committee, who will assign a faculty adviser to the student.

Requirements

The requirements of the American Intercultural Studies minor are as follows:

I. Completion of 18 credit hours in the following distribution:
   A. Completion of the nine-hour Required Curriculum.
      1. Three hours in either:
         ANTH 1301 (Introduction to Anthropology) OR
         SOCI 1301 (Introduction to Sociology)
      2. SOCI/ANTH 3327 (Contemporary Minorities)
      3. HCOM 3372/ANTH 3332 (Intercultural Communication)
   B. Nine additional hours from the Core Curriculum (see below), including at least three hours in Perspectives coursework and at least three hours in Dynamics coursework.

II. Guidelines for selection of coursework:
   A. At least nine hours of coursework in the American Intercultural Studies minor must be upper division.
   B. No more than 12 hours of the coursework (including cross-listed courses) can be taken from one department to fulfill the requirements of the minor.

AMERICAN INTERCULTURAL STUDIES CORE*

Perspectives Coursework
ENGL 2373 (African American Literature)
ENGL 4323 (Studies in American Literature: The Harlem Renaissance)
ENGL 4323 (Studies in American Literature: The American Bildungsroman)
GNED 3325 (The U.S. Latino Experience)
Trinity University

GNED 3326 (U.S. Latino Cultural and Artistic Expression)
HIST 1340 (Latin American Cultural Traditions)
HIST 1370 (The African American Experience Through Reconstruction)
HIST 1371 (The African American Experience Since Reconstruction)
HIST 3340 (Latin American Perspectives)
MUSC 1346 (Jazz History and Styles)

Dynamics Coursework

ANTH 3343 (Relaciones fronterizas México-Estados Unidos (bilingüe)) (also listed as SOCI/INTL 3343)
HIST 1360 (The History of the United States Through Reconstruction)
HIST 1361 (The History of the United States Since Reconstruction)
HIST 3363 (Early American Social History)
HIST 3368 (Modern American Culture)
INTL 3343 (Relaciones fronterizas México-Estados Unidos (bilingüe)) (also listed as SOCI/ANTH 3343)
PLSI 3352 (Civil Rights and Liberties)
PSYC 2341 (Social Psychology)
RELI 1360 (Religion in the United States)
SOCI 3343 (Relaciones fronterizas México-Estados Unidos (bilingüe)) (also listed as ANTH/INTL 3343)
URBS 2328 (Social Inequality) (also listed as SOCI 2328)

* When departments offer a relevant course coded under a "special topics" or "variable content" designation, the Faculty Advisory Committee may approve such course for inclusion within the core curriculum of the minor.

Courses

See the "Requirements" tab.

Faculty

WILLIAM T. BURKE III, J.D., Associate Professor, Business Administration; Chair

L. BROOKS HILL, Ph.D., Professor, Human Communication and Theatre

ARTURO MADRID, Ph.D., Norine R. and T. Frank Murchison Distinguished Professor of the Humanities, Modern Languages and Literatures

PETER O'BRIEN, Ph.D., Professor, Political Science

RICHARD K. REED, Ph.D., Professor, Sociology and Anthropology
TRINITY UNIVERSITY

Courses of Study 2011 - 2012

Art and Art History

Requirements

THE MAJOR
Requirements for the Bachelor of Arts with a major in Art or Art History are as follows:

I. The common curriculum

II. Declaration of an Art or Art History Major

III. Departmental requirements:

Art
A. 36 semester hours of Studio Art, including ART 1310, 2330, 3314, 4394, and 4397. At least 15 hours are to be completed in upper-division courses.
B. 9 semester hours in Art History are required, including ARTH 1307 and 1309.
C. A minimum of 3 hours required from at least two of the following areas: Painting/Drawing, Sculpture, Photography/Digital, and Printmaking.
D. Completion of ART 4394 and ART 4397 in the senior year. During the senior year, Studio Art majors are required to have a public exhibition of art works, selected in consultation with the Studio faculty of the Department of Art and Art History. Student participation is contingent upon faculty portfolio review. In preparation for this exhibition, students will enroll in ART 4394 in the fall and ART 4397 in the spring.

Art History
A. 30 semester hours of Art History, including ARTH 1307, 1308, 4394, plus 21 semester hours, as follows:
   1. 4 courses (12 hours) concentrating on art produced before 1800.
   2. 3 courses (9 hours) concentrating on art produced after 1800.
   3. One of these courses must address non-Western art (ARTH 1309, 1310, 1311, 1313, 3328, 3345, and applicable special topics courses).
   4. One of these courses must focus on architectural history (ARTH 1312, 1313, 1314, 3322, 3325, 3332, 3352, 3354, 3364, 3365, and applicable special topics courses).
   5. At least 6 of these courses (18 hours) must be upper-division courses.
B. 6 semester hours (2 courses) of Studio Art in two different areas, ideally one course in a two-dimensional medium (drawing, design, printmaking, painting, photography) and one course in a three-dimensional medium (sculpture, ceramics).
C. Completion of ARTH 4394 in the senior year. The course is generally offered every spring semester.
D. Students contemplating graduate study are encouraged to develop reading expertise in at least one foreign language (French, German, Spanish, Italian and, depending on specialization, Latin, Greek, Russian, Chinese, Japanese) and to include a period of study abroad in their program. Two semesters of chemistry are strongly recommended for students considering careers in art conservation.

IV. Electives sufficient to total 124 semester hours.

ADMISSION TO MAJOR STATUS

Art
Prior to the declaration of an Art Major, the student must complete the following 9 hours with a grade of C or better:
I. ART 1310 and 2330.
II. One other ART course at the 1000 or 2000 level.

Art History
Prior to the declaration of an Art History Major, the student must complete at least three 3-semester-hour courses in Art History or Studio Art with a grade of C or better. At least two of these must be courses in Art History.

THE MINOR IN STUDIO ART

I. 24 semester hours in Studio Art, including ART 1310, 2330, and 3314. At least 12 hours are to be completed in upper-division studio courses.
II. 3 semester hours in Art History.

THE MINOR IN ART HISTORY

21 semester hours in Art History including ARTH 1307, 1308, 2 upper-division courses before 1800, 2 upper-division courses after 1800, and one additional course of the student's choice in Art History.

THE MINOR IN ART AND ART HISTORY

This interdisciplinary program shared between the Art and Art History programs is designed to help students relate an understanding of artistic creativity to their major field of study.
Requirements:
24 semester hours in Studio Art and Art History, 9 hours of which must be in Art History and 9 hours of which must be in Studio Art; at least 9 hours must be upper division.

THE HONORS PROGRAM

I. University requirements
II. Departmental requirements:

Art
The requirements for Honors in Art are the same as the university requirements, except that the 6 semester hours taken during the senior year are to be devoted to artistic work accompanied by prose explication. A full description of the program is available in the departmental office.

Art History
The requirements for Honors in Art History are the same as the university requirements, except that the required 9 semester hours consist of ARTH 4394 (Theories and Practice of Art History), taken during the senior year, plus 6 semester hours for the Honors Thesis (ARTH 4396, 4399), taken during the senior year. A full description of the honors program in Art History is available in the departmental office.

Courses

ART COURSES

GENERAL STUDIES

ART-1310 Design
Studio practice in dealing with 2-D and 3-D compositional problems, integrating the visual elements with aesthetic principles and an emphasis on creative solutions. Students may not register for both ART 1310 and DRAM 2310.

ART-2305 Studio Art for Chemists
This studio based course is offered in conjunction with its companion course, Chemistry 2305: Chemistry for the Visual Artist. The application of scientific study with creative studio practice provides a dynamic platform for the making of art work. The framework for connecting the two fields of study is supported by slide presentations, demonstrations, and studio practice. Guided studio assignments provide the students with an understanding of how the physical and chemical nature of materials can influence and inform creative thinking and artistic expression.
Corequisite: Chemistry 2305: Chemistry for the Visual Artist.

ART-2314 Creative Thinking and the Artistic Process
This course encourages students to synthesize a theoretical and experimental approach to the creative process as studied through the visual arts, music, creative writing, and theatre. Students enter into the creative process as means to develop creative self-expression, aesthetic sensibility, and an understanding of the arts. The nature and drive of artistic endeavor is explored through studies of the lives of significant thinkers and artists, examinations of art works, guest lectures, and projects. Students will engage in activities and projects that will enable them to access and develop their own creative thinking skills in concert with traditional, analytic modes. (Also listed as ART 2314, THTR 2340, ENGL 2340 and MUSC 2340.)

ART-2395 Outdoor Studio
Outdoor Studio meets for a 6- to 8-hour period one day per week for working excursions to outdoor sites in and around San Antonio. Students create works of art on site and gather information to create or complete work in the studio. Traditional landscape media, contemporary installation strategies, and new technologies are explored. Course includes readings and lectures addressing pertinent environmental and archaeological information to enhance understanding of the Texas landscape.

ART-3113 Guest Artist Workshop
A four-week studio course taught by visiting artists encompassing the sharing of skills and philosophical approaches to artistic problems.

ART-3314 Issues in Contemporary Art
A seminar in contemporary visual art exploring art theory, practice, and history. The thematic structure will blend historical and contemporary art criticism, exhibitions, and studio practice. The fundamental theories of art making throughout the twentieth century will be explored through the study of drawing, painting, architecture, photography, film, ceramics and sculpture.
Prerequisite: ARTH 1307 or 1308.

ART-3383 Introduction to Game Art

http://web.trinity.edu/x10332.xml?PrintFriendlyPage
This interdisciplinary course will address the role of the studio arts in contemporary computer game design. Students will work in groups that mirror professional development groups at game development companies where coders, game designers, and artists work together to produce a final product. The course is interdisciplinary, involving students and faculty from the studio arts, computer science, and other fields.

**ART-4383 Advanced Game Art**

This course builds on the concepts introduced in ART 3315. Students will be introduced to more advanced tools for digital media creation and may work with 3-D games. Students will work in groups that mirror professional development groups at game development companies where coders, game designers, and artists work together to produce a final product. The course is interdisciplinary, involving students and faculty from the studio arts, computer science, and other fields.

**DRAWING**

**ART-2330 Beginning Drawing**

The presentation and investigation of the technical, conceptual, and aesthetic elements of drawing as they relate to the development of ideas. The study of human figure may be included.

**ART-3330 Intermediate Drawing**

A continuation of ART 2330.

Prerequisite: ART 2330.

**ART-430 Advanced Drawing**

A continuation of ART 3330. Credit may vary from 1-3 semester hours. Course may be repeated for a maximum of 9 credit hours.

Prerequisite: ART 3330.

**PAINTING**

**ART-2340 Beginning Painting**

A basic course in beginning painting techniques and issues in contemporary painting.

Prerequisite: ART 1312 or 2330 or DRAM 2310.

**ART-3340 Intermediate Painting**

A continuation of ART 2340.

Prerequisite: ART 2340.

**ART-440 Painting: Advanced**

A continuation of ART 3340. Credit may vary from 1-3 semester hours. Course may be repeated for a maximum of 9 credit hours.

Prerequisite: ART 3340.

**PHOTOGRAPHY**

**ART-2350 Beginning Photography**

A basic course in beginning black and white photographic techniques and issues in contemporary photography. Preference will be given to Art and Art History majors and minors and students enrolled in the New Media Minor.

**ART-3350 Intermediate Photography**

A continuation of ART 2350.

Prerequisite: ART 2350 or consent of instructor.
ART-4-50 Advanced Photography
A continuation of ART 3350. Credit may vary from 1-3 semester hours. Course may be repeated for a maximum of 9 credit hours.
Prerequisite: ART 3350.

DIGITAL PHOTOGRAPHY

ART-2352 Beginning Digital Photography
Basic principles of digital photography as utilized in creative expression and photojournalism. Use of camera, lighting, composition, and editing, as well as instruction in the use of digital darkroom and Adobe PhotoShop for photographic image manipulation and production techniques. Preference will be given to Art and Art History majors and minors and students enrolled in the New Media minor.

ART-3352 Intermediate Digital Photography
A continuation of ART 2352.
Prerequisite: ART 2352 or consent of instructor.

ART-4-52 Advanced Digital Photography
A continuation of ART 3352. Credit may vary from 1-3 semester hours. Course may be repeated for a maximum of 9 credit hours.
Prerequisite: ART 2352.

PRINTMAKING

ART-2360 Lithography and Monotype
An introduction to the process and chemistry of lithography and monotype technique through studio experience. 4 studio hours and 4 hours outside preparation per week required. May be repeated up to 3 times.

ART-2362 Intaglio and Relief
An introduction to the technical and aesthetic characteristics of Intaglio and Relief through studio experience. We will address larger issues of printmaking and develop a personal vocabulary while exploring these versatile print media. 4 studio hours and 4 hours outside preparation per week required. May be repeated up to 3 times.

ART-2364 Screen Printing
Studio experience in Screen Printing techniques, including hand-drawn and photomechanically applied stencils, and issues in contemporary printmaking. 4 studio hours and 4 hours outside preparation per week required. May be repeated up to 3 times.

ART-2366 Papermaking
A studio course in the history and techniques of Asian and European hand papermaking. The impact of the discovery of paper on the world and the contemporary uses of hand-papermaking are contextualized through the technical exploration of hand-made paper. 4 studio hours and 4 hours outside preparation per week required. May be repeated up to 3 times.

ART-2368 Bookbinding
Presenting the book-as-object, this course is an exploration of bookbinding through studio experience, within the context of the history of the book. With an emphasis on technical skills, we will work with a variety of binding styles and materials to understand how structure and content play off each other, discovering the boundaries of the definition of a book. 4 studio hours and 4 hours outside preparation per week required. May be repeated up to 3 times.

ART-3362 Digital and Photo Printmaking
An in-depth studio course using digital and photo media techniques to create a matrix in hand printmaking. Using the computer as an image-making tool, this class, combining old and new media, provides an exploration of contemporary printmaking. 4 studio hours and 4 hours outside preparation per week required. May be repeated up to 3 times.
Prerequisite: ART 2360 or 2362, or consent of instructor.

ART-3-60 Topics in Intermediate Printmaking
This course is designed for students who have already taken a course in printmaking and wish to experience a particular printmaking technique in greater depth. The course may be taken more than once, as long as course content changes. Credit may vary from 1 to 3 semester hours. Course may be repeated for a maximum of 9 credit hours.

Prerequisite: ART 2360, 2362, 2364, or consent of instructor.

ART-4-60 Topics in Advanced Printmaking

This course is designed for students who have already taken ART 3-60 and desire to hone their technical skills and conceptual expression at the advanced level. The course may be taken more than once, as long as course content changes. Credit may vary from 1 to 3 semester hours. Course may be repeated for a maximum of 9 credit hours.

Prerequisite: ART 3-60 or consent of instructor.

SCULPTURE

ART-2370 Sculpture: Clay
A beginning level course in sculpture focusing on clay handbuilding techniques, kiln firing, and glaze processes. Issues in contemporary sculpture will be explored.

ART-2372 Sculpture: Small Metals
A beginning level course in sculpture focusing on metal construction techniques. Issues in contemporary sculpture will be explored.

ART-2374 Sculpture: Wood
A beginning level course in sculpture focusing on construction techniques in wood. Issues in contemporary sculpture will be explored.

ART-2376 Sculpture: Carving
A beginning-level course in sculpture focusing on carving techniques in stone, wood, and plaster. Issues in contemporary sculpture will be explored.

ART-2378 Sculpture: Relief
A beginning-level course in sculpture focusing on relief sculpture in clay, wood, plaster, and mixed media. Issues in contemporary sculpture will be explored.

ART-3372 Topics in Sculpture
From time to time special topics courses in sculpture will be offered. The course may be taken more than one, as long as the course content changes.

Prerequisite: consent of instructor.

DIGITAL IMAGING

ART-2380 Digital Art
An intensive fine arts studio investigation emphasizing visual problem solving and production. Designed to build visual art making skills and computer proficiency through the introduction of structured studio problems. Emphasis on the expressive and communicative nature of images focusing on the computer as the primary creative medium.

Prerequisite: ART 1311 or consent of instructor. Priority will be given to Art and Art History majors and minors and students enrolled in the New Media minor.

ART-3380 Advanced Digital Art
A continuation of ART 2380. Research and critique in Digital Art. This course may be repeated up to 3 times.

Prerequisite: ART 2380 or consent of instructor.

INDEPENDENT STUDY

ART-3-90 Special Work in Studio Art
Not to exceed 6 semester hours.

Prerequisite: consent of instructor.
ART-4-91 Advanced Study in Studio Art
Research and critique in studio work. Not to exceed 12 hours.
Prerequisite: Upper-division major in the department or consent of instructor.

SPECIAL TOPICS

ART-3-91 Topics in Studio Art
From time to time special topic courses not described in the Courses of Study Bulletin will be offered. The course may be taken more than once, as long as course content changes.
Prerequisite: consent of instructor

ART-3-97 Internship
Internships are offered in a variety of professional visual art venues such as museums, galleries and other art institutions. Such work will not exceed 10 hours per week. 1-3 hours per semester, maximum of 6 semester hours. Pass/Fail only.
Prerequisites: junior or senior standing art major or minor and consent of the Chair.

ART-3398 Honors Readings
Independent study in selected areas in preparation for Honors Thesis.
Prerequisite: admission to Honors Program.

ART-4394 Senior Seminar
A combination of seminars, readings, and museum/gallery visits in preparation for portfolio development, senior exhibition, graduate study, and preparation for other art related professions. Fall semester only. ART 4394 and ART 4397 are required in the Senior Year.
Prerequisite: senior standing with major in Studio Art.

ART-4396 Gallery Practicum
Gallery Practicum is a hands-on course offering instruction and experience in all aspects of the organization and installation of art exhibitions. Students will learn professional gallery management practices by researching exhibition content, arranging loans of artwork, and creating checklists, didactic labels and brochures. Through organizing and installing exhibitions in the university gallery, they will gain valuable experience in the selection, proper handling, placement, hanging and lighting of works of art in exhibitions.
Prerequisite: at least one course in Studio Art or Art History.

ART-4397 Senior Studio
Concentrated advanced study in studio art in preparation for the senior exhibition. ART 4394 and ART 4397 are required in the senior year.
Prerequisites: ART 4394; senior standing with major in Studio Art or consent of department chair.

ART-4398, 4399 Honors Thesis
Individual research and scholarly investigation under faculty supervision leading to the preparation of an Honors Thesis. To be taken only by Senior Honors students in both semesters of their senior year.

ART HISTORY COURSES

LOWER DIVISION

ARTH-1301 Introduction to Film Studies
This course is an introduction to the artistic, cultural, and scholarly importance of film. The course focuses on the development of film as a complex art form, the evolution of narrative as part of a formal system, the development of the industry and film genres, critical and cultural approaches to film analysis, and the construction of the audience. Students will read excerpts from primary texts as well as more general texts dealing with film interpretation and criticism. (Also listed as FILM 1301, COMM 1302, ENGL 1301, and ML&L 1301.)
ARTH-1307 Art History I: Prehistoric Through Medieval Art

This course aims to present works of art in their historical context with emphasis on the cultural values revealed in selected examples of painting, sculpture and architecture, and to acquaint students with the fundamental principles of artistic design to further enjoyment of works of art. The humanist tradition of Greek and Roman art, and its relationship to the Judeo-Christian tradition of Early Christian and Medieval art, will be studied.

ARTH-1308 Art History II: Renaissance to Modern Art

This course is a continuation of ARTH 1307, though it may be taken independently. The course focuses particular attention on the humanist traditions of the Renaissance; the influence of religion, philosophy, science and political patronage in the seventeenth and eighteenth centuries; and the impact of industry and modernity in the nineteenth and early twentieth centuries.

ARTH-1309 Introduction to Asian Art: India

The origins and development of art and architecture in India set within the religious, political and social context.

ARTH-1310 Introduction to Asian Art: China

The origins and development of art and architecture in China set within the religious, political and social context.

ARTH-1311 Introduction to Asian Art: Japan

The origins and development of art and architecture in Japan set within the religious, political and social context.

ARTH-1312 Art and Architecture of Latin Americas since the Sixteenth Century

This course examines the rich and diverse art of the Americas since the arrival of Europeans in the sixteenth century. It considers the architecture, painting, sculpture, photography, and planning of this region with the aim of understanding the distinctive elements of Latin American art as well as its commonalities with the art of Europe and the United States. The course will consider works in relation to the dramatic social and political changes of the last five centuries and the ways in which the study of the art of Latin America complicates established art historical narratives.

ARTH-1313 Art and Archaeology of Ancient Egypt

A survey of the major monuments and sites of ancient Egypt. The course will trace the development of the Egyptian state from its formation down into the early first millennium BCE.

ARTH-1314 Art and Architecture of Medieval Europe

This course examines the art and architecture of the Middle Ages in Europe, from the earliest Christian imagery of the fourth century to late Gothic court art, produced around 1400. The geographical range extends from the northern fringes of the British Isles to the borders of the Byzantine world, and a wide selection of buildings and objects will be considered in relation to their social, political and historical contexts, with a particular focus on the development of the Christian tradition. (Also listed as GRST 1314.)

ARTH-2301 International Cinema

This course focuses on the cultural and critical analysis of international films as an expression of particular artistic genres and/or styles within specific historical, ideological, and cultural contexts. Films selected have achieved wide, critical acclaim; others reveal unique and important visions of human experience; while still others are selected for their political, ideological, or sociological significance. Students should develop an awareness that the medium of film has a history and that its history is not confined to national boundaries. (Also listed as FILM 2301, COMM 2301, ENGL 2300, and ML&L 2301.)

UPPER DIVISION

Completion of three semester hours of Art History, or sophomore standing, or consent of instructor, is prerequisite to taking upper-division courses.

ARTH-3320 The Minoan-Mycenaean Civilization

This course deals with the rediscovery of the Aegean Bronze Age civilizations of the Crete and Mycenae, using an interdisciplinary approach based on material from archaeology, anthropology, and the Homeric epics.

ARTH-3321 Greek Vase Painting

The development of the shape and decoration of Greek pottery from the Geometric period through the end of the Classical era. The characteristics of individual artists and the treatment of Greek myths in different periods are studied.
ARTH-3322 Greek Architecture

The development of Greek architecture from the Geometric period through the Hellenistic period. The development of the temple is emphasized, but private and public buildings, city planning, and religious sanctuaries are also considered.

ARTH-3325 Roman Art and Architecture

This course examines the major monuments and art styles in the city of Rome and the Roman provinces from the Republic to the Imperial period, ending with the reign of Constantine the Great.

ARTH-3328 Art and Archaeology of Mesopotamia and Persia

An examination of the archaeology of Mesopotamia (modern Iraq) and Persia (modern Iran), focusing on the visual expression of royal power in art and architecture.

ARTH-3330 Art and Architecture in the Late Classical World

This course will consider the art and architecture of Roman, Jewish, Christian, and early Islamic communities from the later Roman Empire to the seventh century CE.

ARTH-3335 Pre-Columbian Art of Mesoamerica

This course is a survey of the art of Mesoamerica and will examine the art of the Olmec, Western Mexico, Gulf Coast, Teotihuacan, Maya, Toltecs, Zapotecs, Mixtecs, and the Aztecs. Art mediums will include architecture, sculpture, ceramics and other portable art, murals, ancient manuscripts such as codices, jewelry, and even graffiti. Students will have an opportunity to work with materials on and off-exhibit in the Pre-Columbian collection at the San Antonio Museum of Art for their research papers.

ARTH-3340 Northern Renaissance Art in the Fifteenth Century

The course examines the making and meaning of the visual arts in France, Germany, and the Netherlands, from c. 1400 to c. 1500. Objects in various media are considered in relation to their original contexts, from the lavish splendor of the courts to the burgeoning commercial art markets. Key themes, including the role of the altarpiece, technical innovations, devotional practices, and the shifting relationship of Northern art with Italy, will be explored through the work of Van Eyck, Van der Weyden, Schongauer, and their contemporaries.

ARTH-3341 Early Renaissance Art in Italy

This course will deal with the art and architecture of fifteenth century Italy, with emphasis on Florence. The cultural context of Humanism will be explored, as well as the social and political currents that influenced the art of the period.

ARTH-3342 High Renaissance Art and Mannerist Art in Italy

This course deals with the art of sixteenth-century Italy. The first half of the course focuses on papal Rome, and the work of Leonardo da Vinci, Michelangelo, Bramante, and their followers, in relationship to the social and cultural currents of the time. The second half of the course broadens the focus to include other Italian centers and the impact of Mannerism on both monumental and decorative arts.

ARTH-3343 Italian Baroque Art

This course will examine the art and architecture of Italy in the late sixteenth and seventeenth centuries, with emphasis on the major figures and cultural factors associated with Baroque movements. In addition, this course may follow the impact of Italian Baroque art and architecture elsewhere in southern and northern Europe.

ARTH-3344 Northern Renaissance Art in the Sixteenth Century

This course examines the making and meaning of the visual arts in France, Germany, England, and the Netherlands, from c. 1500 to c. 1600. Artworks in various media are considered in relation to their original contexts, from the workshops of Nuremberg and the markets of Antwerp to the French court at Fontainebleau and the Tudor court in England. Key themes, including the impact of printmaking, the challenge of the Reformation, and the influence of Italian art, are explored through the work of Durer, Grunewald, Holbein, Bruegel, and their contemporaries.

ARTH-3345 Spanish Colonial Art and Architecture in Mexico

A study of the arts of Mexico from Conquest to Independence (1521-1821), with special attention to architecture and to architectural painting and sculpture. The study also includes the Spanish sources of this art (the Late Gothic, Plateresque, Renaissance, Baroque, and Neo-Classical stylistic periods) and the persistence of indigenous forms, images, and sensibilities. The course includes original material at hand: the San Antonio Missions and works in the San Antonio Museum of Art.

ARTH-3346 Jan Van Eyck and His Legacy

The course investigates the life, work and reputation of Jan van Eyck and his place within the history of Western art. Incorporating the latest research on the artist and a range of methodological approaches, the course explores the intended audience, function and meaning of van Eyck's paintings, together with those of his workshop, his followers and his imitators in the Burgundian Netherlands. Particular attention will be paid to the historical, social and religious contexts of his artworks, and the later history of their reception.
ARTH-3351 Nineteenth-Century Art: Romanticism and Impressionism (c. 1800-1900)
This course investigates European art from the French Revolution to Impressionism. During this time, rapid modernization of industry and technology, combined with social and political transformations, caused equally radical changes to occur in many aspects of visual arts, from its formal appearance to its significance for society. Emphasis is given to understanding the interrelationships between various historical contexts and visual form.

ARTH-3352 Nineteenth-Century Architecture and Urbanism
This course covers architecture and urban development in Western Europe and America from the late eighteenth century to the 1890s, with special attention given to the theoretical and social contexts for major architectural movements.

ARTH-3353 Nineteenth-Century American Art
American fine arts and architecture from early nationhood to the World’s Columbian Exposition of 1893. Emphasis on the cultural forces shaping the arts and artists, along with major figures and movements.

ARTH-3354 Mexico City
This course examines the architectural and urban history of Mexico City, analyzing its founding by the Aztecs in the fourteenth century, its transformation into a center of Spanish colonial splendor, and its re-invention as a booming twenty-first century mega-city. The course will also consider how travelers, artists, and critics have represented this dynamic metropolis throughout its 700-year history.

ARTH-3357 History of Photography
This course examines the artistic practices and the critical accounts which constitute the history of photography, from the 1830s to the present. Emphasis is given to the historical contextualization and visual analysis of key technologies, techniques, movements, styles, artists, and artworks, combines with close readings of primary and secondary texts.

ARTH-3359 Modernism in the Visual Arts
This course examines the artistic practices and the critical accounts which constitute "Modernism" in the visual arts, from the mid-nineteenth century. Emphasis is given to the historical contextualization and visual analysis of key modernist artworks, combined with close readings of primary and secondary texts.

ARTH-3360 Twentieth-Century Art: Cubism to Conceptualism (c.1900-1970)
This course introduces students to the major twentieth century artists, works, movements, and art theories in Europe and the United States, circa 1900 to 1970. While concretely investigating a diversity of art practices, the course also considers the central relationship during this period between art and critical theories of modernism and postmodernism.

ARTH-3361 Public Art Across the Border
This course considers the public art of Mexico and the United States, and the rich cross-border exchanges between and among Mexican and U.S. artists in the twentieth and early twenty-first centuries. The course will examine the work of several artists in depth, explore the intimate relationship between public art and social and political reform, and analyze the changing place of public art in popular and art historical discourses. Special attention will be given to Mexican Muralism and its influences.

ARTH-3362 Theories and Art of the Russian Avant-Garde
The main artistic movements and artists in Russia from 1880-1930: Symbolism, Primitivism, Futurism, Suprematism, Constructivism. Special attention will be given to the works of Vrubel, Malevich, Kandinsky, Tatlin, and El Lissitsky.

ARTH-3363 Contemporary Art and Culture since 1945
This course examines the artistic practices and critical accounts which constitute contemporary art, from the 1940s to the 1990s. Relationships between avant-garde artistic activities and social, cultural, and political critique are a central focus. Since this is not a survey class in the traditional sense, extensive reading in both historical and critical materials will be required.

ARTH-3364 Twentieth-Century Architecture and Urbanism
This course covers architecture and urban development from the 1890s to the 1960s. Emphasis on ideological, theoretical, national, and popular architectural movements, primarily in Western Europe and the United States.

ARTH-3365 Contemporary Architecture
This course covers architecture and urban development from the 1960s through the present. Emphasis on the artistic, ideological, theoretical, and political factors that shape contemporary built environments, with primary focus on the United States, Western Europe, and Japan.
ARTH-3-90 Independent Study in Art History

Independent study in selected areas. 1 to 3 semester hours; may be repeated for a total of no more than 6 hours.

Prerequisites: 6 advanced hours in Art History and consent of instructor.

ARTH-3391 Topics in Art History

From time to time special topic courses not described in the bulletin will be offered. Topics will generally cut across the chronological divisions of period courses, dealing instead with broader issues in Art History. May be repeated on different topics.

ARTH-3392 Women's Studies in Art History

Course content will vary depending on the instructor but may include some of the following: women as artists and architects, images of women in art and society, feminist methodology, or women as patrons of art. Course may be repeated with different topics for a maximum of six semester hours.

ARTH-3393 Museum Studies

This course will focus on specific topics in the history, nature, and operation of the art museum. Specific issues may include: connoisseurship, documentation, the impact of the museum on the development of art, the nature of arts patronage, the function and purpose of the museum, and debates over the issues of censorship and/or community responsibility.

ARTH-3395 Colloquium in Museum Studies

This course will provide an experiential overview of the artistic, educational, and commercial functions of the modern art museum in a colloquium setting. Students will have the opportunity to work in the classroom and on-site with museum professionals in San Antonio and the region.

ARTH-3-97 Internship

Internships are offered in conjunction with museums, art agencies, and art professionals in the San Antonio community and beyond, or may involve an introduction to visual resources management in the Department's Visual Resources Collection. Each internship must be directed by a faculty member who will draw up an agreement between the sponsoring institution or office, the student, and the department outlining the scope and requirements of the course. 1-3 hours per semester, maximum 6 semester hours. Elective credit only. Pass/Fail only.

Prerequisite: Approval by Department Chair.

ARTH-4394 Theories and Practice of Art History

This seminar, required of majors in their senior year (and recommended for minors), will give historical and methodological perspectives on the discipline of Art History. The leading approaches used in the field will be studied, using art historical writings from the Renaissance to the present. The course is generally offered each Spring semester.

ARTH-4395 Seminar in Art History

From time to time courses will be offered that will provide an in-depth study of selected artists or problems. May be repeated for a maximum of six credits.

Prerequisite: Consent of instructor.

ARTH-4396 Gallery Practicum

Gallery Practicum is a hands-on course offering instruction and experience in all aspects of the organization and installation of art exhibitions. Students will learn professional gallery management practices by researching exhibition content, arranging loans of artwork, and creating checklists, didactic labels and brochures. Through organizing and installing exhibitions in the university gallery, they will gain valuable experience in the selection, proper handling, placement, hanging, and lighting of works of art in exhibitions.

Prerequisite: At least one Studio Art or Art History course.

ARTH-4398, 4399 Honors Thesis

Individual research and scholarly investigation under faculty supervision leading to the preparation of an Honors Thesis. To be taken only by Senior Honors students in both semesters.
Faculty

LAURA AGOSTON, Ph.D., Associate Professor, Art History

DOUGLAS BRINE, Ph.D., Assistant Professor, Art History

SARAH P. BURKE, Ph.D., Professor, Modern Languages and Literatures

MARK B. GARRISON, Ph.D., Alice P. Brown Professor of Art and Art History; Chair

JESSICA HALONEN, M.F.A., Assistant Professor, Art

JONGWON LEE, M.F.A., Associate Professor, Art

JENNIFER P. MATHEWS, Ph.D., Professor, Anthropology

KATHRYN E. O’ROURKE, Ph.D., Assistant Professor, Art and Art History

KATE RITSON, M.F.A., Professor, Art

MICHAEL SCHREYACH, Ph.D., Assistant Professor, Art History

PATRICIA SIMONITE, M.F.A., Associate Professor, Art

RANDALL WALLACE, M.F.A., Studio Manager, Art

ELIZABETH D. WARD, M.F.A., Professor, Art
Courses of Study 2011 - 2012

Biology

Overview

The Bachelor of Science program is designed to provide both a broadly based introduction to the biological sciences and an opportunity for study and research at an advanced level. The program serves students with interests in pursuing careers in the health professions, secondary education, and professions requiring a fundamental knowledge and understanding of the biological world. Students interested in graduate study in biology are strongly encouraged to elect research courses in addition to the required program of study.

Requirements

THE MAJOR

The requirements for the degree of Bachelor of Science with a major in Biology are as follows:

I. The common curriculum.

II. Departmental requirements:

A. 32 semester hours of biology are required and distributed as follows:
   - The Area A introductory core (9 hours), and five additional courses from each of the following two categories: group 1 - 3420, 3426, 3427, 3434, 3435; group 2 - 3430, 3441, 3448, 3453, 3455, 3457, 3458, 3459, 3462, 3464; and three additional hours in biology at the 2000 level or higher.
   - CHEM 1318/1118, 2319/2119, MATH 1307 or 1311, and MATH 1320 or PSYC 2401.
   - Two courses chosen from one of the following options:
     1. CHEM 2320/2220 and one of the following: CHEM 3330, 3334, or ENGR 2311.
     2. PHYS 1309/1111 and 1310/1112.
     3. CSCI 1320; MATH 1312 or an upper division mathematics or computer science course approved by the student's adviser.
     4. One course from GEOS 1304, 1305, or 1307 and one course from GEOS 2304, 2401, 3300, 3308, or 3402.
   - Completion of BIOL 4001 and 4002 with a grade of C or better.

It is recommended that students planning to undertake graduate study in the biological sciences complete more than one of the options in part C.

GUIDELINES FOR ACCEPTANCE OF MAJORS

Full acceptance in the major is granted if the following requirements are met at the time of application:

1. Completion of BIOL 1311, 1111, 1312, 1212 with grades of C or better in each class;
2. Completion of CHEM 1318, 1118, 2319, 2119; and
3. An overall grade point average of at least 2.0.

Students who do not meet the above criteria may be granted provisional acceptance if it is judged that there is a reasonable expectation they can complete the degree program.

HONORS IN BIOLOGY

Biology majors are eligible to enroll in the Honors Program if they satisfy the University requirements that are described elsewhere in this bulletin. Prior to registration for their junior year, Honors candidates should meet with the Department Chair and should arrange for a Faculty Mentor for their Thesis Project. Completion of the Honors Program includes nine hours of research courses (BIOL 3-98, 4398, and 4399). Upon completion of BIOL 3398 and 4398, the Honors candidate must submit to the Department Chair a written request to graduate with Honors in Biology. This request must be received no later than the first full week of the student's final semester before graduation. The decision to confer or not to confer Honors will be made by the Departmental Faculty and will be based on the quality of the written thesis and the oral presentation of that thesis.

MINOR IN BIOLOGY

A student may minor in Biology by satisfying the following requirements:

1. Completion of BIOL 1311, 1111, 1312, 1212; and
2. Completion of three courses from Area B.

BACHELOR OF SCIENCE DEGREE IN BIOCHEMISTRY AND MOLECULAR BIOLOGY

The requirements for the degree Bachelor of Science with a major in Biochemistry and Molecular Biology are as follows:
I. The common curriculum

II. Departmental requirements:

A. 47-49 credits in chemistry and biology, distributed as follows:
   i. Core Courses. BIOL 3000 or CHEM 3000 (1 semester), BIOL 1311, 1111, 1312, 1212, 3430, 3464, CHEM 1318, 1118, 2319, 2119, 2320, 2220, 3330, 2130, 3131, 3334, and 4340.
   ii. Advanced Electives. Two courses chosen from the following list (one from each department): BIOL 3441, 3448, 3456, 3459, 3462, CHEM 3432, 4346, 4347, or the combination of 3321 and 3121.

B. MATH 1307 or 1311 and 1308 or 1312.

C. PHYS 1111, 1112, 1309, 1310.

D. Completion of the Senior Experience is satisfied by one of the following: BIOL 4399, CHEM 4346, 4347, 4395, 4399, GNED 4300, or 4301.

Electives sufficient to total 124 semester hours.

GUIDELINES FOR ACCEPTANCE OF MAJORS

Full acceptance is granted if the following requirements are met at the time of application:

1. Completion of CHEM 1318, 1118, 2319, 2119, 2320, 2220 and BIOL 1311, 1111, 1312, 1212 with grades of C or better.
2. Completion of MATH 1307 or 1311 with a grade of C or better.
3. A grade point average of at least 2.0 on all other university work.

Provisional acceptance may be granted if it is apparent that an applicant can meet the requirements for full acceptance by the end of the semester in which application is made.

Transfer students will be accepted provisionally pending completion at Trinity of at least one upper division chemistry and biology course, which includes laboratories, with a grade of C or better.

HONORS IN BIOCHEMISTRY AND MOLECULAR BIOLOGY

Students may undertake honors under the direction of faculty in either the Biology or Chemistry Departments. The procedures and requirements will be determined by the department affiliation of the research mentor. These are described in the Biology and Chemistry sections of this bulletin.

TEACHER CERTIFICATION IN BIOLOGY

Students majoring in biology can receive certification to teach biology in grades 4-8 and grades 8-12. In order to receive certification, students major in biology, complete 11-14 undergraduate hours of education coursework, and complete the Master of Arts in Teaching graduate program at Trinity. After this course of study, students would have a B.S. in Biology, a master's in teaching, and teacher certification in Texas. For more information and specific requirements, see the Education Department's program description in the course catalogue.

Courses

BIOL-1305 Genetics and Human Affairs

The course is designed to equip students with sufficient factual knowledge to help them intelligently and critically evaluate the problems arising from the recent discoveries in genetics and related life sciences. The principles of heredity and the newer findings in molecular genetics are emphasized as they relate to such current social problems as population pressure, technology, the sexual revolution, birth defects, prenatal diagnosis, effects of drugs and pollutants on heredity, behavior, transplantation, gene cloning and transfer, biotechnology and the future of humans. BIOL 1305 and 3421 cannot both be taken for credit.

BIOL-1307 Biological Impact and Issues

The content of this course will deal with the impact of biological knowledge on the issues of society and culture. Examples of the topics to be discussed are as follows: the influence of the concepts of evolution on human thought and society; medical science and its manipulation of the human body; gene pool alteration and the resultant restructuring of life; agricultural science and its effect on nutrition and human population; impact of the alteration of the environment on the biological world. 3 class hours a week for one semester.

BIOL-1309 The Nature of Cancer

This course is a survey of cancer biology examining the development, progression and treatment of the disease(s). A major emphasis will be on using a scientific framework to understand the disease along with the many myths and misperceptions. The course is designed as a studio course that includes both lectures and laboratory experiments during the class period. Additionally, there will be four required field trips during the semester that will require a total of sixteen hours on weekends. A minimum of one half of the course meeting times will be laboratory activities. No student who has already fulfilled or is currently fulfilling the Using Scientific Methods section of the Understanding Natural Science and Technology portion of the Common Curriculum may register for this course.

BIOL-2301 Advanced Placement Biology

Students earning a 4 or 5 on the Advanced Placement Biology exam or a 5, 6, or 7 on the Higher-Level International Baccalaureate Exam will receive credit for this course.

BIOL-2305 The Science of Novel Environments

This course explores the scientific background supporting the literature studied in CMLT 2301. Two themes are emphasized: 1) ecological and physical approaches to studying the environment and 2) the organismal biology, genetics, and molecular biology of crop plants as related to global agriculture and genetically modified organisms. This course is organized around a mixture of lectures and discussions. Hands-on/laboratory experiences will be included. Optional field trips outside class time may be incorporated. This course
is intended for students who major in non-science discipline. No student who has fulfilled or is currently enrolled in a course fulfilling the Natural Science and Technology portion of the Common Curriculum may register for BIOL 2305.

Corequisite: CMLT 2301.

AREA A: THE INTRODUCTORY CORE

BIOL-1311 Integrative Biology I

This course is designed to introduce students to the wide range of knowledge in the biological sciences and with the methods that have built this knowledge base. The course is organized around a series of topic-based modules, each of which will integrate modern biological approaches at the cellular, organismal, and popular levels. Modules for this first semester course will include global biology change, sexual reproduction, the evolution of hemoglobin, or other contemporary topics. Grades for this course will be determined by exams on each module, a comprehensive final exam, and take home exercises and assignments. This course is appropriate for non-science majors and will meet 3 class hours a week for one semester in the fall only.

BIOL-1312 Integrative Biology II

This course is a continuation of Biology 1311 and builds on that material with a different set of topic based modules. Modules for this second semester course will include genetically modified organisms, metabolism, the evolution of birdsong, or other contemporary topics. Grades for this course will be determined by exams on each module, a comprehensive final exam, and take home exercises and assignments. 3 class hours a week for one semester in the spring only. Biology 1212 must be taken concurrently.

Prerequisites: BIOL 1311, 1311. CHEM 1318 is strongly recommended.

BIOL-1111 Introductory Biology Laboratory

This is an introductory course that provides an understanding of the scientific methods used to investigate biological questions and how the results of these studies are communicated. The semester is divided into three investigative modules in which student groups learn a technique, conduct an experiment or study, and write their results in the form of a scientific paper. Each group will also make a presentation on the biodiversity of particular groups of organisms. This laboratory course is appropriate for both non-science majors and science majors. Grades are determined from the reports and presentations. 3 laboratory hours a week for one semester in the fall only. BIOL 1311 must be taken concurrently.

BIOL-1212 Methods for Biological Problem Solving

This methods course for science majors develops analytical, laboratory, and field skills through small-scale exercises and investigative experiments. Biochemistry and molecular biology, organismal physiology, and ecology will be used to address the processes of experimental design and data analysis, with emphasis on calculation skills and proper application of statistics. The use of supporting organismal and literature databases in scientific investigation will be incorporated. Grades for the course will be determined by a combination of tests, problem sets and writing assignments. Three scheduled laboratory hours, plus 1-2 hours of follow up laboratory work and outside reading/writing each week. BIOL 1312 must be taken concurrently.

AREA B COURSES

All of the following upper division courses have BIOL 1111, 1111, 1312, 1212, and CHEM 1318, 1118, 2319, 2119 as prerequisites.

BIOL-3420 Animal Behavior

This course will investigate both evolutionary and proximate aspects of animal behavior. Using the logical framework of the four levels of analysis, we will cover: 1) the adaptive value of specific behaviors and the role of natural selection in maintaining behaviors; 2) how behaviors have evolved over time; 3) how behaviors develop within an individual; and 4) the neural, hormonal, and physiological mechanisms underlying behaviors. Lectures will cover a variety of topics, including: natural selection and evolution; genes and the environment; animal learning and cognition; hormones and their role in mediating behavior; neural mechanisms; foraging behavior; predator-prey interactions; sexual selection; social behavior, courtship and mate choice; and social behavior. In addition to lectures, we will develop skills to understand and interpret primary literature, which will be facilitated through group-discussions of journal articles. The laboratory will focus on developing skills of hypo-deductive inquiry, and on the design, implementation, and analysis of experiments that will be carried out in the laboratory and field. As part of the laboratory, students will develop a sophisticated and in-depth review of the literature focusing on a specific topic of animal behavior, culminating in a final paper and a presentation to the class. 3 class hours and 3 laboratory hours a week for one semester.

Prerequisites: BIOL 1311, 1111, 1312, 1212.

BIOL-3426 Vertebrate Evolution

This course is an evolutionary survey of vertebrates that will focus on major evolutionary innovations and systematic relationships, and major features of the anatomy, physiology, life history, and behavior of vertebrate taxa. The laboratory includes studies of evolutionary adaptations, surveys of taxa, field trips to the San Antonio Zoo and other locales, and identification of local vertebrates. Grades for the course will be determined from lecture exams, laboratory practicals, one comprehensive final exam, and the students’ choice of a library report or field-based project. 3 class hours, 3 laboratory field hours a week for one semester.

Prerequisites: BIOL 1311, 1111, 1312, 1212.

BIOL-3427 Plant Biology

This course is a comprehensive study of plants from a variety of perspectives including plant morphology, anatomy, physiology, evolution, and ecology. The course will also cover plant ethnobotany, biogeography, and the taxonomy of several notable plant families. The laboratory is designed to give students experience with live and preserved specimens and laboratory and field techniques frequently associated with the study of plants. Students will apply skills learned in the core courses to the processes of experimental design
and hypothesis testing by conducting experiments that are pertinent to the current literature. Some experiments will require time outside of scheduled lab for care of experimental subjects. The course includes two week-end and one weekend field trip. 3 class hours, 3 laboratory/field hours a week for one semester.

Prerequisites: BIOL 1311, 1111, 1312, 1212.

The following upper-division courses have BIOL 1311, 1111, 1312, and 1212 as prerequisites and CHEM 1318, 1118 are pre- or corequisites.

BIOL-3430 Genetics
An understanding of genetics is fundamental to most studies in biology because of the central role of heredity in life and evolution. This course will use a text and primary literature to study the following subjects and principles: Mendelian inheritance of qualitative and quantitative characters and probabilistic analysis of heredity; the molecular nature of genes, including the basic classes and functions of genes and regulation of transcription in both prokaryotic and eukaryotic systems; and the behavior of genes in populations, including mathematical treatments of Hardy-Weinberg equilibrium and the five evolutionary forces (mutation, migration, selection, drift, and non-random mating). The laboratory will use model plant and animal systems to investigate these basic principles. Grades will be based on exams and participation in lecture and lab. Three class hours and three laboratory hours per week for one semester. Some experiments will require time outside of scheduled lab for care of experimental subjects. BIOL 1305 and 3430 cannot both be taken for credit.

BIOL-3431 Microanatomy
Structure-function relationships are explored through an analysis of animal histological features. The microscopy-based laboratory examines tissues by means of comparisons of normal and pathological features. Student performance is measured by in-class exams, written reports, oral presentations, and a course project. Computer imaging and analysis are integrated into the fabric of the course along with several case studies. 3 class hours and 3 laboratory hours a week for one semester.

BIOL-3434 Ecology
This course examines the interactions that determine the distribution and abundance of animals and plants. As a primary discipline in biology, ecology overlaps broadly with many other disciplines including genetics, evolution, systematics, behavior, and physiology to name a few. Any study of ecology also requires basic mathematical and statistical knowledge. This course will examine the broad field of ecology from three different levels: individuals, populations, and communities. These levels will be covered through lectures, computer simulations, student-led critiques and student-led critiques and student-led discussions of classic studies, and laboratory-field exercises. Most of the laboratory time will be spent on field trips. The course will also include a weekend field trip. Grades for the course will be determined from lecture and laboratory exams, discussions of classic papers, one comprehensive final exam, and numerous laboratory-field write-ups. 3 class hours, 3 laboratory-field hours a week for one semester.

Strongly recommended: MATH 1307 or 1311 and PSYC 2401 or MATH 1320.

BIOL-3435 Evolution
This course will survey the history of evolutionary thought, the mechanisms and patterns of evolutionary change, and the methods scientists use to study evolution. Topics to be explored include evolution by natural and sexual selection, neutral drift, fitness and adaptation, modes of speciation, phylogenetics, extinction, and applications of evolution in modern medicine. The laboratory portion of the course will include methods to describe and measure diversity, to experimentally create diversity, and to use evolutionary statistics to address broad biological questions. Some experiments will require time outside of scheduled lab. 3 hours of lecture/discussion and 3 laboratory hours per week.

Strongly recommended: MATH 1320 or PSYC 2401.

BIOL-3441 Plant Physiology
As organisms, plants are intertwined with and extensively influenced by their physical environments. Individual cells and organs adapt independently to environmental fluctuations on a moment-by-moment basis. This course examines how plants maintain this flexibility and function as multicellular organisms. The principal focus is the regulation of biochemical and biophysical processes and how they are integrated from the cellular level to the organ level and finally into a functional whole plant. Three themes will be considered in depth: 1) the biophysics and biochemistry of water and inorganic nutrient fluxes; 2) bioenergetics and biochemistry of photosynthesis; and 3) cellular and molecular processes of signal transduction and pathogen responses. Equal emphasis is placed on processes regulated at the level of gene expression and processes where regulation occurs by modulation within pre-existing biochemical pathways. Discussion of readings from the primary scientific literature will be a regular component of course work. Laboratories will combine exercises in which quantitative data are used to demonstrate consequences of specific principles, with project-oriented experiments extending over several weeks and outside the scheduled lab period.

BIOL-3448 Microbiology
The study of microbial organisms is of tremendous importance in our world today. This course emphasizes the basic biology of bacteria, including their varied morphology, growth and nutritional requirements, cell motility, gene regulation, mechanisms of antibiotic resistance, and bacterial interactions as populations and with other organisms. Other topics covered include viruses and the Archaea. The impact of microbes on medicine, public health, agriculture and biotechnology are discussed. In addition to exams, a research paper on a recent topic from the primary research literature in microbiology is required. The laboratory covers diverse techniques on manipulation and growth of bacterial cultures, microscopy, testing of environmental samples, bacterial genetics and molecular biology, and identification of unknown organisms. Multiple experiments are run concurrently. Students are expected to visit the lab on days other than the assigned period to monitor experiments. 3 class hours, 3 laboratory hours a week for one semester.

Additional prerequisite: BIOL 3430.

BIOL-3452 Vertebrate Physiology
This course is a study of the principles of homeostasis with emphasis on major vertebrate organ systems. This course begins with a detailed molecular investigation of excitable membrane physiology (nerve and muscle) followed by a systematic investigation of endocrine, cardiovascular, respiratory, renal and gastrointestinal physiology. Integrative problem sets are assigned to address the complex interactions between organ systems. Laboratory experience involves experimentatization with sophisticated physiological...
equipment and computerized data acquisition systems to reinforce concepts presented in lecture. Lecture examinations, laboratory reports, homework problem sets, and a research paper with presentation will be used to assess student understanding in this course. 3 class hours, 3 laboratory hours per week for one semester.

Additional prerequisite: one 2000-level Biology course or higher.

BIOL-3453 Developmental Biology

Through integration of information from various biology subdisciplines, course topics include the following: vertebrate body plan patterning, genetic control of the Drosophila body plan, early morphogenesis, cell differentiation, organogenesis, gamete formation, and fertilization. The laboratory follows development using microscopy and through special projects involving several animal systems, including avian. Course assessment includes in-class examinations, oral presentations, and group projects. 3 class hours and 3 laboratory hours a week for one semester. Additional laboratory hours are required to monitor experiments.

Additional prerequisite: one course from BIOL 3426, 3456, or 3457.

BIOL-3456 Cell Biology

Cells form the basic working units of organs and the systems that organs comprise. This course is designed to build an understanding of the fundamental processes that govern the operations of cells. Cells face challenges of maintaining boundaries, communicating with neighboring cells, transporting essential components across barrier membranes, generating chemical energy, regulating cell phenotype, and maintaining cell structure. In order to function as part of a specialized tissue or organ, cells elaborate specific subsets of organelles to dedicate themselves to performing specific functions. The course will provide the background to understand the cellular mechanisms of specialized cells, and allow one to predict the underlying cellular physiology of most tissue systems. The laboratory takes an investigative approach, introducing microscopic, molecular, and biochemical tools for studying cells. Grades for the course are to be determined by in-class examinations and laboratory reports. 3 lecture hours, 3 laboratory hours a week for one semester.

Additional prerequisite: at least one Area B course or CHEM 3330.

BIOL-3457 Neurobiology

Neurobiology focuses on the organization and function of nervous tissues and systems. The course begins with an anatomical overview, followed by an examination of neural system function at the level of signaling and synaptic transmission, sensory systems, and central system integration and control. With this foundation, the course explores brain development and plasticity. 3 class hours and 3 laboratory hours a week for one semester. Additional hours are required to monitor experiments. (Also listed as NEUR 3447.)

Additional prerequisite: NEUR 2310.

BIOL-3459 Endocrinology

A study of the function of the endocrine system and how it regulates the metabolic processes of living organisms. The course begins with a historical background of the science of endocrinology and then progresses from pituitary gland secretions through the endocrinology of the reproductive organs. Attention will also be given to neuro-endocrine mechanisms in lower vertebrates and invertebrates. 3 class hours, 2 discussion-demonstration hours a week for one semester.

Additional prerequisite: at least one Area B biology course, preferably BIOL 3452 or CHEM 3330.

The following upper-division courses have BIOL 1311, 1111, 1312, 1212, CHEM 1318, 1118, 2319, 2119, and two additional courses as specified as prerequisites.

BIOL-3462 Immunobiology

This course investigates the immunological mechanisms that enable animals to respond to foreign substances, and examines the experimental observations upon which current concepts are based. The underlying course theme is that while invariant properties of pathogens are recognized by elements of innate immunity, and in some instances leads to their elimination, the ability of pathogens to continually adapt and develop evasive strategies has by necessity been countered by the evolution of adaptive immune responses. Consequently, the course begins with consideration of innate immune mechanisms, which is followed by a thorough treatment of the molecular and cellular events that lead to generation of the effectors of adaptive immunity and their modes of action. The course concludes with discussion of the physiological consequences of an immune response, certain clinical manifestations of immune reactivity, and how our understanding of immune mechanisms has been applied to clinical and public health problems. 3 class hours and 3 laboratory hours a week for one semester. In addition to quizzes and examinations, a research paper is required that deals critically with a topic of current interest and is based upon the recent scientific literature.

Prerequisites: BIOL 3430 and at least one additional area B biology course or CHEM 3330.

BIOL-3464 Molecular Biology

The focus of this course is the gene. The lecture portion of the course considers the major topics of gene structure, expression, duplication, and recombination. The laboratory takes an investigative approach and offers experimentation in protein electrophoresis, northern blotting, reporter gene expression, PCR-based gene cloning and sequencing, and microarray screens. Lecture and laboratory principles are reinforced through computer-based problem-solving projects using genome databanks. Grades for the course are to be determined by in-class examinations, the projects, and laboratory reports. 3 lecture hours, 3 laboratory hours a week for one semester.

Prerequisites: BIOL 3430 and one of the following: BIOL 3448, 3453, 3456, or CHEM 3330.

AREA C: TECHNIQUE AND RESEARCH CONCENTRATION

BIOL-91 Selected Topics
Study of a topic or field not covered by other courses. Lower division offerings will provide an introductory approach to a topic. Upper division courses will involve in-depth analysis of a specific area, and will usually require prerequisite courses, at the discretion of the instructor. May be repeated for credit on different topics.

**BIOL-3000 BCMB Seminar**

Students must attend a minimum of 10 scientific seminars. Appropriate seminars are those offered by the Department of Biology, the Department of Chemistry, the Department of Physics and Astronomy, the Neuroscience Program, and/or seminars presented as part of the Distinguished Scientist Lecture Series. Pass/Fail.

**BIOL-3-90 Independent Study**

Individual work arranged with a faculty member on problems in biology as indicated by the student's preparation and interest. Attendance at the weekly Biology Seminar is required. Credit may be from 1 to 3 hours per semester with no more than 6 cumulative credit hours possible.

Prerequisites: consent of instructor and approval of a study/research plan submitted to the department chair prior to the semester of enrollment in the course.

**BIOL-3-92 Research Internship**

Off-campus study in a research laboratory arranged by the student. Prior written approval of a faculty member and departmental permission are required. Guidelines are available in the departmental office. May be repeated for a maximum of 3 credit hours. Graded on a pass/fail basis.

**BIOL-3-98 Thesis Readings**

Independent study in selected areas in preparation for the Senior Thesis. Credit may be from 1 to 3 hours per semester. It is highly recommended that students complete three course hours of this experience by the end of their junior year to establish a foundation for their Thesis Research.

Prerequisite: junior standing.

**BIOL-4001 Senior Comprehensive Exam**

Each September or early October, those Biology majors who have earned 90 total credits or 23 hours in Biology by the end of the preceding semester, will take the Biology Major Field Test (MFT). Students will be required to attend a one hour meeting held early in the fall semester; the examination will be administered on a Saturday soon thereafter. Alternative arrangements will be made for students unable to take the exam at the scheduled time because of University commitments. Students will receive a grade of Pass for completion of the test, but performance on the exam will factor into the grade for BIOL 4002.

**BIOL-4002 Senior Retrospective**

Students will meet with their advisors during the first day of class and schedule a series of meetings that will guide them in the preparation of a written summary addressing the following: 1) A review of each student's performance on the MFT describing the strengths and weaknesses of the student's preparation; 2) A comparison of the MFT results to the courses taken and grades received and; 3) An assessment of how the student's performance might have been affected by course selection, course content or learning environment, or the student's own learning strategies. In some instances a student might be advised to change their course selection for their final semester based upon their test score. Grades assigned for this course will be based on a combination of the MFT score and the quality of the student's written summary.

**BIOL-4201 Biology Senior Seminar**

Built around the Biology Department's seminar series, students will interact with seminar speakers visiting campus to discuss readings provided by the speaker the week before. Students will maintain a journal that briefly summarizes the readings and logs thoughts about the significance of the work, how it extends what has been learned in biology classes at Trinity, and what major questions the work raises. After the discussion, students will attend the seminar to learn about the broader context of the work. This course will satisfy the Senior Experience requirement.

Prerequisite: senior standing and Biology major.

**BIOL-4351 Conservation Biology**

This course will explore the cross-disciplinary nature of conservation biology, which is the applied science of maintaining the earth's biological diversity. Students will lead weekly discussions on the various sub-disciplines of conservation biology and their applications, including evolution, ecology, genetics, and economics. A detailed case history analysis of a local conservation issue will be required.

Prerequisite: an upper-division course in Biology or consent of instructor.

**BIOL-4398 Senior Seminar and Thesis Research I**

The purpose of this course is to provide opportunity and guidance in research under the direction of a faculty member. Students must submit a progress report to the department chair if they plan to enroll in BIOL 4399. Attendance at the weekly Biology Seminar, which consists of presentations of original research from diverse fields of Biology, is required.

Prerequisites: senior standing, completion of BIOL 3398, and submission of a formal research proposal to the department chair prior to the semester of enrollment in the course.

**BIOL-4399 Senior Seminar and Thesis Research II**
This course is a continuation of student projects begun in BIOL 4398. Students are required to write a thesis and make an oral presentation of their research project at an appropriate venue. Attendance at the weekly Biology Seminar is also required.

Prerequisite: BIOL 4398.

Faculty

ROBERT V. BLYSTONE, Ph.D., Professor

MARK BRODL, Ph.D., George W. Brackenridge Distinguished Professor of Biology

FRANKLYN G. HEALY, Ph.D., Associate Professor

MICHELE A. JOHNSON, Ph.D., Assistant Professor

JONATHAN KING, Ph.D., Associate Professor

THOMAS L. KOPPENHEFFER, Ph.D., Professor

KEVIN D. LIVINGSTONE, Ph.D., Associate Professor

KELLY G. LYONS, Ph.D., Associate Professor

TROY G. MURPHY, Ph.D., Assistant Professor

GABRIELA RENNEBECK, Ph.D., Instructor

DAVID O. RIBBLE, Ph.D., Professor; Chair

JAMES L. ROBERTS, Ph.D., Ruth C. and Andrew G. Cowles Endowed Professor of Life Sciences

JAMES R. SHINKLE, Ph.D., Professor

TYISHA WILLIAMS, Ph.D., Assistant Professor
TRINITY UNIVERSITY

Biomathematics

Overview

The Biomathematics minor is an interdisciplinary program designed for students interested in the expanding field of mathematical modeling of biological phenomena. The program of study includes the introductory core courses from Biology and Mathematics to provide students with fluency in each of these disciplines. Students then choose either an ecology track or a genetics track. In either track, students are required to take a biology course and then a mathematics course. These mathematics courses will build on specific quantitative aspects of the biological subdiscipline to motivate model development and testing. Students will also take a seminar course to become familiar with contemporary problems addressed by researchers in biomathematics and present the results of their own research projects.

Requirements

THE MINOR

The requirements for a Biomathematics minor are as follows:

A. The Core (15 hours)

- BIOL 1311 (Integrative Biology I)
- BIOL 1111 (Introductory Biology Laboratory)
- BIOL 1312 (Integrative Biology II)
- BIOL 1212 (Methods for Biological Problem Solving)
- MATH 1307 (Calculus A)
- MATH 1308 (Calculus B)

B. Advanced Interdisciplinary Study (7 hours)

Complete one of the following pairs of courses. The BIOL course should be taken first for either option, as the MATH course will build on the knowledge from the BIOL course.

Ecology option:

- BIOL 3434 (Ecology)
- MATH 3328 (Mathematical Models in Life Sciences)

or

Genetics option:

- BIOL 3421 (Genetics)
- MATH 3311 (Probabilistic Models in Life Sciences)

C. Contemporary Topics and Research in Biomathematics (3 hours)

- BIMA 2094 (Seminar in Biomathematics I)
- BIMA 3194 (Seminar in Biomathematics II)
- BIMA 4294 (Research Project in Biomathematics)

Courses

BIMA-2094 Seminar in Biomathematics I

This course will be offered spring semesters and consist of seminar presentations given by Trinity students and researchers in biomathematics, as well as other researchers from outside the institution. Students will be expected to prepare for each seminar by reading assigned materials and then participating in discussions with the speakers prior to the seminar.

Prerequisite: consent of instructor.
BIMA-3-90 Independent Research in Biomathematics

Individual research in biomathematics conducted with faculty. Course credit will depend on the nature and scope of the proposed research project.

Prerequisites: consent of instructor and approval from the minor director

BIMA-3391 Special Topics in Biomathematics

Advanced study of a topic or field not covered by other courses. May be repeated for credit for different topics.

Prerequisites: BIOL 1311, 1312, MATH 1307, MATH 1308, and consent of instructor.

BIMA-3194 Seminar in Biomathematics II

This course will be offered spring semesters and consist of seminar presentations given by Trinity students and researchers in biomathematics, as well as other researchers from outside the institution. Students will be expected to complete the requirements outlined for BIMA 2094, as well as present either the results of their own research project or a relevant paper from the literature, including leading the pre-seminar discussion.

Prerequisites: BIMA 2094 and consent of instructor.

BIMA-4284 Research Project in Biomathematics

This course will be offered spring semesters and consist of seminar presentations given by Trinity students and researchers in biomathematics, as well as other researchers from outside the institution. Students will be expected to complete the requirements outlined for BIMA 2094, as well as present the results of their own research project, including leading the pre-seminar discussion.

Prerequisites: BIMA 2094 and consent of instructor.

Faculty

FARZAN AMINIAN, Ph.D., Professor, Engineering Science
EDUARDO CABRAL BALREIRA, Ph.D., Assistant Professor, Mathematics
KEVIN D. LIVINGSTONE, Ph.D., Associate Professor, Biology; Chair
PETER OLOFSSON, Ph.D., Professor, Mathematics
DAVID O. RIBBLE, Ph.D., Professor, Biology
Courses of Study 2011 - 2012

Business Administration

Overview

The Department of Business Administration offers two undergraduate degree programs. The Bachelor of Science in Business Administration degree is designed to accommodate those students who want to pursue specialized study in the following areas of concentration: accounting, finance, management, marketing, or international business. The Bachelor of Arts degree is designed to accommodate those students who do not wish to pursue an in-depth study of one of the areas in Business Administration and who also desire to undertake a double major, where one of those majors is Business Administration. Both of these degree programs are accredited by AACSB International - The Association to Advance Collegiate Schools of Business.

Students pursuing the Bachelor of Science degree complete a core of 27 semester hours, a course in Quantitative Managerial Decision Making, at least twelve semester hours in an area of concentration, and sufficient elective hours to bring the total in Business Administration courses to at least 45 semester hours. Students pursuing the Bachelor of Arts degree complete a core of 27 semester hours and six hours of electives beyond that core.

The two degree programs are designed to fulfill the needs of students who, upon graduation, intend immediately to pursue a career in business, government, or the non-profit sector, as well as those students who plan to undertake graduate study in either Business Administration or law. This is accomplished through a core that includes those courses prospective employers are most apt to require and that are generally required as prerequisites for the Master of Business Administration degree, as well as being desired courses for graduate study in law.

Students should apply for admission to major in Business Administration early in the Sophomore year so that they may be assigned a major adviser. The advising process is an integral part of the Business Administration major as it provides a basis for the development of a comprehensive program that best meets both the academic and career objectives of the student. The general requirements for the Bachelor of Science and Bachelor of Arts degrees are listed below. For full admission to the major in Business Administration, a student must first complete ACCT 1301, BUSN 2301/ECON 2320, and ECON 1311 with grades of C or better.

Requirements

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION DEGREE

The requirements for the Bachelor of Science in Business Administration degree are as follows:

I. The common curriculum

II. A core curriculum in Business Administration (27 hours): ACCT 1301, 1302; BUSN 2301, 3302, 4301*; FNCE 3301**; MGMT 2301; MIS 2301; and MKTG 2301.

III. Completion of BUSN 3303.

IV. Completion of a concentration in Business Administration, choosing from one of the following: Accounting, Finance, Management, Marketing, and International Business. No course taken by a student may count toward more than one concentration requirement.

A. Accounting Concentration: Students choosing this concentration must complete ACCT 3341, 3342, 3343, 4344, and BUSN 3341. Prospective students should note that this concentration only partially satisfies the educational requirements for the Uniform Certified Public Accountant Examination in the state of Texas. The Department of Business Administration offers a two-semester Master of Science in Accounting degree program. Upon completion of the program, the student is awarded the degree of Master of Science in Accounting and is qualified to take the Uniform Certified Public Accountant Examination in the state of Texas. Students interested in this program may obtain material describing prerequisite courses, the course of study, and admission procedures and requirements from the Department of Business Administration.

B. Finance Concentration: Students choosing this concentration should complete FNCE 3352 and 4351. Additionally, students should complete 6 hours from the courses that follow: ACCT 3341, 3342, FNCE 3351 (ECON 3356), FNCE 3361 (ECON 3361), or FNCE 3353.

C. Management Concentration: Students choosing this option should complete MGMT 3371 and 9 hours from the courses that follow: MGMT 3361, MGMT 3372, MGMT 3383, and MGMT 4371.

D. Marketing Concentration: Students choosing this option should complete MKTG 4381, and an additional 9 hours from the courses that follow: MKTG 3361, 3381, 3382, 3383, BUSN 3363, 4362.
E. International Business Concentration: Students choosing this option should complete each of the following requirements (students should note that coursework taken to complete the requirements specified under sections c) and d) below does not count toward the 45 semester hours in business courses required for the Bachelor of Science degree):

a) 9 hours from the following international business concentration area courses: BUSN 3361, BUSN 3365, FNCE 3361, MGMT 3361, or MKTG 3361.

b) An international experiential requirement consisting of one of the following: Completion of at least one semester of study abroad and the completion of BUSN 3396 or BUSN 3372. Completion of an approved international internship, or other meaningful international work experience, and the completion of an additional 3-hour course from the international concentration list specified in section a) above.

c) One 3-hour interdisciplinary course selected from the following (or another 3-hour course approved by the International Business faculty):

- ANTH 3332 (Intercultural Communication) (also listed as HCOM 3372)
- BUSN 3330 (Global Business Culture) (also listed as CHIN 3330)
- BUSN 3346 (The Spanish Economy and the European Union) (also listed as ECON 3346, INTL 3346, and SPAN 3346)
- BUSN 3363 (International Business Research) (also listed as CHIN 3363)
- CHIN 3330 (Global Business Culture) (also listed as BUSN 3330)
- CHIN 3363 (International Business Research) (also listed as BUSN 3363)
- COMM 3322 (International Communication) (also listed as HCOM 3374)
- ECON 3318 (The Global Economy)
- ECON 3341 (Economic Development of Mexico)
- ECON 3342 (Latin American Economic History) (also listed as HIST 3348)
- ECON 3346 (The Spanish Economy and the European Union) (also listed as BUSN 3346, INTL 3346, and SPAN 3346)
- ECON 3347 (International Trade)
- HCOM 3372 (Intercultural Communication) (also listed as ANTH 3332)
- HCOM 3374 (International Communication) (also listed as ECON 3346, INTL 3346, and SPAN 3346)
- INTL 3346 (The Spanish Economy and the European Union) (also listed as BUSN 3346, ECON 3346, and SPAN 3346)
- PLSI 3331 (Political Economy of the U.S., Europe, and Japan)
- PLSI 3342 (International Law)
- SPAN 3346 (The Spanish Economy and the European Union) (also listed as BUSN 3346, ECON 3346, and INTL 3346)

d) A foreign language requirement consisting of the successful completion of a modern foreign language course numbered 2302, or its equivalent.

V. Completion of an approved study abroad experience or the successful completion of a modern foreign language course numbered 2302, or its equivalent.

VI. Completion of electives to bring the total in Business Administration courses to at least 45 semester hours.

VII. Completion of general electives outside of Business Administration sufficient to bring the total semester hours earned for a degree to 124.

A student who pursues either a major or a minor in Business Administration must take at least 50% of the Business Administration credit hours that apply toward his/her degree at Trinity University.

At least 50% of the credit hours required for a concentration in the Bachelor of Science degree in Business Administration must be taken at Trinity University.

*Students should note that ECON 1312 is prerequisite for BUSN 4301. In order to satisfy this prerequisite requirement, ECON 1312 may not be taken on a pass/fail basis.

**Students should note that ECON 1311 is prerequisite for FNCE 3301. In order to satisfy this prerequisite requirement, ECON 1311 may not be taken on a pass/fail basis.

BACHELOR OF ARTS IN BUSINESS ADMINISTRATION DEGREE

The requirements for the Bachelor of Arts Degree with a major in Business Administration are as follows:

I. The common curriculum

II. A core curriculum in Business Administration (27 hours): ACCT 1301, 1302; BUSN 2301, 3302, 4301*; FNCE 3301**; MGMT 2301; and MKTG 2301.

III. Completion of a second major at Trinity University.

IV. Completion of six hours of electives in Business Administration.

V. Completion of general electives outside of Business Administration sufficient to bring the total semester hours earned for a degree to 124.

A student who pursues either a major or a minor in Business Administration must take at least 50% of the Business Administration credit hours that apply toward his/her degree at Trinity University.

* Students should note that ECON 1312 is prerequisite for BUSN 4301. In order to satisfy this prerequisite requirement, ECON 1312 may not be taken on a pass/fail basis.

** Students should note that ECON 1311 is prerequisite for FNCE 3301. In order to satisfy this prerequisite requirement, ECON 1311 may not be taken on a pass/fail basis.

MINOR IN BUSINESS ADMINISTRATION

In addition to the two degree programs offered to business majors, the Department offers a minor in Business Administration to students who would like to explore the subject of business in depth but whose primary interests lie elsewhere. Requirements for the minor are the completion of at least 24 semester hours of business courses. The following seven courses are required for completion of the minor:

- ACCT 1301 (Fundamentals of Financial Accounting)
- BUSN 2301 (Statistics for Management and Economics)
- BUSN 3302 (Legal Concepts of Business I)
- MIS 2301 (Fundamentals of Information Systems)

MGMT 2301 (Management of Organizations)
MKTG 2301 (Principles of Marketing)
FNCE 3301* (Financial Administration of Business Firms)

In addition, one three-hour upper-division elective course must be taken. None of the courses used to satisfy these requirements may be taken Pass/Fail.

A student who pursues either a major or a minor in Business Administration must take at least 50% of the Business Administration credit hours that apply toward his/her degree at Trinity University.

* Students should note that ECON 1311 is prerequisite for FNCE 3301. In order to satisfy this prerequisite requirement, ECON 1311 may not be taken on a Pass/Fail basis.

MINOR IN BUSINESS ADMINISTRATION LEGAL STUDIES

The Business Administration Legal Studies Minor is designed for students who would like to develop a practical understanding of legal theory and the rules of law applicable to public and private institutions, with emphasis on business enterprises. Students contemplating graduate studies in business, law, medicine, or other professional areas and those who intend to serve in an organizational leadership capacity would find that the Legal Studies Minor complements their major field of study.

Completion of 18 credit hours in the following distribution:

A. Completion of the following nine hours of core coursework:
   - ACCT 1301 (Fundamentals of Accounting)
   - BUSN 3302 (Legal Concepts of Business I)
   - BUSN 3341 (Legal Concepts of Business II)

B. At least one three-hour course in law focusing on business regulation: BUSN/ECON 3338, BUSN 3361, ECON 3336, ECON 3339, or appropriate BUSN 3-90 or other course approved by the minor adviser.

C. At least one three-hour course in law applicable to business from a perspective other than business or economics: COMM 3382, PHIL 3353, PLSI 3351, SOCI 3350 or other law course outside of business and economics approved by the minor adviser.

D. One additional three-hour course in law from either B or C above.

Note: If a student wishes to pursue a minor in Business Administration and a minor in Business Administration Legal Studies, the courses required by one minor cannot simultaneously be counted to fulfill the requirements of the other. Moreover, a student may not major in Business Administration and receive a minor in Business Administration or a minor in Business Administration Legal Studies.

Masters of Science in Accounting Degree Program

The two-semester Master of Science in Accounting degree program is structured to develop and perfect technical, theoretical, and interpersonal skills required of accounting professionals. This degree program is accredited by AACSB International - The Association to Advance Collegiate Schools of Business. Upon completion of the program of study, the student is awarded the degree of Master of Science in Accounting and has satisfied the educational requirements for the Uniform Certified Public Accountant Examination in the state of Texas.

The requirements for full admission to the program include:

1. Senior standing as an undergraduate student, or a baccalaureate degree.
2. Completion of six undergraduate Accounting courses (ACCT 1301, 1302, 3341, 3342, 3343, 4344) or their equivalent with acceptable grades. Students who do not have an undergraduate business degree will need three additional business courses to meet CPA exam requirements in Texas.
3. A grade point average of 3.00 or better on the last 60 hours of undergraduate level work and an average of 3.00 or better in the undergraduate major.
4. Acceptable scores not more than six years old on the Graduate Management Admissions Test (GMAT).
5. Two letters of recommendation from professors or employers regarding the applicant's character, motivation, and intellectual ability.

Students who do not meet the requirements for unconditional acceptance may be considered for acceptance on a provisional basis.

COURSE OF STUDY

The Graduate Program in Accounting consists of ten graduate level courses, six of which are grounded in traditional areas of accounting study:

ACCT 5341 (Accounting Theory)
ACCT 5342 (Accounting Information Systems)
ACCT 5343 (Seminar in Advanced Federal Taxes)
ACCT 5344 (Fraud Examination)
ACCT 5345 (Advanced Managerial Accounting)
ACCT 5346 (Advanced Financial and Nonprofit Accounting)

In addition, BUSN 5349, Seminar in Law, Ethics, and Professional Responsibilities, and MGMT 5372, Conflict Management, are to be completed, along with two elective courses. Topics for graduate electives will vary from term to term.

Courses

ACCOUNTING

ACCT-1301 Fundamentals of Financial Accounting
An introduction to business and the basic concepts of financial accounting. The course incorporates identifying, analyzing, measuring, recording, and communicating financial information for businesses that are organized and operated for profit. Emphasis is placed on applications of these concepts to real world situations.

ACCT-1302 Fundamentals of Managerial Accounting
An introduction to cost and managerial accounting with special focus on the application of cost accounting techniques such as managerial planning, control, and decision making tools. A special effort is made to integrate standards of ethical conduct for management accountants throughout the course.
Prerequisite: ACCT 1301.

ACCT-3341 Intermediate Financial Accounting I
A comprehensive study of the conceptual bases and standards of financial accounting. The course focuses on analyzing transactions and internal events in terms of current accounting theory and applying this theory in financial reporting.
Prerequisites: ACCT 1301 and junior standing, or consent of instructor.

ACCT-3342 Intermediate Financial Accounting II
A continuation of ACCT 3341 with emphasis on accounting for shareholders' equity, debt securities, investments, pensions, leases, and other contemporary accounting topics.
Prerequisite: ACCT 3341.

ACCT-3343 Introduction to Federal Income Tax
An introduction to federal income tax law, primarily as it applies to individuals. Emphasis is placed on the various facets of calculating tax liability, the conceptual and theoretical bases of tax law, and practical problems encountered in its application.
Prerequisites: ACCT 1301 and junior standing.

ACCT-3-90 Studies in Accounting
Designed for students wishing to continue the study of accounting beyond regularly offered courses. Credit from one to six hours. No more than a total of six hours credit may be earned in 3-90 courses in business administration.
Prerequisites: consent of instructor and junior standing.

ACCT-4344 Auditing
A study of accounting attestation standards and procedures. Topics include audit objectives, ethics, auditor's legal liability, generally accepted auditing standards, audit planning, and internal audit functions.
Prerequisite: ACCT 3342.

ACCT-4697 Internship in Accounting
A supervised internship where the student works with an accounting or business firm learning accounting procedures and practices. The internship will normally be completed by working for an organization on a full-time basis over a period of eight weeks during the spring semester of the senior year. Must be taken on a Pass/Fail basis.
Prerequisite: senior standing.

BUSINESS

BUSN-2101 Corporate Social Responsibility and Human Values
This course offers a perspective on corporate social responsibility, with a focus on human values and business ethics. The course will include an opportunity to meet with CEOs and representatives of several businesses and will examine the motivations for responsible corporate governance.

BUSN-2301 Statistics for Management and Economics
Applications of statistical techniques to business and economics. Decision making based on sampling theory, parametric tests of significance, simple and multiple regression and correlation, and time series analysis. (Also listed as ECON 2320.)

BUSN-2359 Professional Ethics
A critical Examination of ethics and ethical issues involved in professional life. Typical topics will include the following: ethical theory, theory of justice, professional codes of conduct, corporate responsibility, harassment policy, affirmative action, the moral status of animals, experimentation using animal and human subjects, the physician-patient relationship, reproductive ethics, and health care policy. (Also listed as PHIL 2359). PHIL 1354 and BUSN 2359 may not both be taken for credit.

BUSN-3302 Legal Concepts of Business I
Studies the American legal system, principles of the law of contracts, negotiable instruments, sales, and business ethics.

BUSN-3303 Operations Management
Provides a broad view into the scope of work, tools, and techniques, both qualitative and quantitative, that the modern Operations Manager should master, with application to both goods and services. Topics include Operations Strategy, Forecasting, Facility Location and Layout, Project Management, Capacity Planning, Inventory Management, Quality Management, Work Design, and current trends in Operations such as Six Sigma and Lean Manufacturing.
Prerequisite: BUSN 2301.

BUSN-3311 Organizational Communication
Studies the theory and practice of communication within organizations. Includes the fit of communication into organizational theory: communication climate and cultures; leadership and management styles; information networking; and the diagnosis and evaluation of communication problems. (Also listed as HCOM 3362.)

BUSN-3313 The American Corporation
For description see ECON 3362.

BUSN-3330 Global Business Culture
This course provides students with a critical and comprehensive understanding of culture-related theories and how they are applied in practice from the perspective of international managers. Emphasis is on the business culture in China in comparison to that in other countries, particularly to that in the United States. Course taught in English. (Also listed as CHIN 3330.)
Prerequisites: junior standing and 6 hours of Business Administration or 6 hours of Chinese or consent of instructor.

BUSN-3338 Government Regulation of Business
Economic analysis of direct government regulatory activity. The course first explores how regulation arises from the political process. These insights, and the tools of microeconomic theory, are then applied to analyze public policy in such fields as electricity, telecommunications, broadcasting, transportation, and safety. (Also listed as ECON 3338).
Prerequisite: three hours of upper division Economics, or consent of instructor.

BUSN-3340 Haciendo negocios en Latinoamérica (Doing Business in Latin America)
This course is both a language and an applied business course. On the language part, it is intended to increase the Spanish proficiency in reading, writing, and speaking. The other aspect of the course includes a thorough understanding of cultural, political, and economic aspects of the Latin American business environment. Moreover, the course will immerse the student in the intricacies of exporting to, importing from, establishing a new business in, or operating a foreign branch in a Latin American country. (Also listed as INTL 3340.)
Prerequisites: ECON 1311, Spanish proficiency, and consent of instructor.

BUSN-3341 Legal Concepts of Business II
Provides the principles of the law of business organizations and regulation; agency, partnerships, corporations, property, debtor-creditor rights, bankruptcy; additional topics include trusts, wills, business and professional responsibility.
Prerequisites: BUSN 3302 and junior standing, or consent of instructor.

BUSN-3344 Economic and Business History of the United States to 1865
A study of the development of American business and the economy through the U.S. Civil War. (Also listed as ECON 3344 and HIST 3360.) Prerequisites: ECON 1311 and 3 hours of U.S. history or consent of instructor.

BUSN-3345 Economic and Business History of the United States since 1865
A study of the development of American business and the economy from the U.S. Civil War to the present. (Also listed as ECON 3345 and HIST 3361.)
Prerequisites: ECON 1311 and 3 hours of U.S. history or consent of instructor.
BUSB-3346 La economía española y la Unión Europea (The Spanish Economy and the European Union)

An examination of Spain's economic development and its position within the European Union. The business, economic, and political transformation of Spain from a struggling nation with an authoritarian regime to an economic power with an open and democratic society are studied. The course also examines the development of European Union, with a special focus on its influence on the Spanish business environment. The experiential component of the course includes visits to businesses, government agencies, and NGOs in Spain. (Also listed as ECON 3346, INTL 3346, and SPAN 3346).

Prerequisites: ECON 1311, three additional hours in business or economics, SPAN 2302 or the equivalent, and consent of the instructor.

BUSB-3355 Entrepreneurship and Venture Planning

This course is designed to provide a practical, comprehensive, basic understanding of entrepreneurship. The process is explored from the inception of an idea through exit strategies. Emphasis is placed on the development of a business plan with focus on legal structure, accounting, business ethics, marketing, and finance.

Prerequisites: admission to the major in Business Administration, completion of at least 15 hours of the core curriculum in Business Administration, junior standing, and consent of instructor.

BUSB-3361 International Business Law

Surveys the law of international trade and business with a focus on international contracts, torts insurance and trade law.

Prerequisite: BUSN 3302 or consent of instructor.

BUSB-3363 International Business Research

A systematic examination of business research as a science and the diverse research methods available to conduct international business research, including coverage of both qualitative and quantitative techniques. Emphasis is upon data collection and interpretation within the context of China and the United States. Course taught in English. (Also listed as CHIN 3363.)

Prerequisites: junior standing and consent of instructor.

BUSB-3365 International Innovation

A critical examination of cross-border innovation and its significance for corporate competitiveness and sustainability. Theories relevant to inputs and outputs of international innovation from the perspective of international managers are covered and related to the managerial importance of innovation and corporate success in the international environment.

Prerequisites: junior standing, MKTG 2301, and MGMT 2301, or consent of instructor.

BUSB-3372 Práctica profesional en España (Internship in Spain)

A supervised summer internship in Spain. Students enrolled in BUSN 3372 will serve as interns with various firms, trade groups, governmental agencies, or public interest groups where they will work and gain experience related to the Spanish economy and business world. The nature of the student's responsibilities will vary with the internship involved and be subject to the approval of the supervising faculty member. (Also listed as ECON 3372, INTL 3372, and SPAN 3372.)

Prerequisites: ECON 1311, three additional hours in business or economics, SPAN 2302 or the equivalent, and consent of instructor.

BUSB-3-90 Studies in Business

Designed for students wishing to continue the study of business beyond areas offered in regular classroom work. Credit from one to six hours. No more than a total of six hours credit may be earned in 3-90 courses in Business Administration.

Prerequisites: consent of instructor and junior standing.

BUSB-3396 Internship in International Business

A supervised internationally oriented internship. Students enrolled in BUSN 3396 will serve as interns with various firms, trade groups, governmental agencies, or public interest groups where they will work and gain experience related to a country other than their home country. The nature of the student's responsibilities will vary with the internship involved and be subject to the approval of the supervising faculty member. To earn credit for BUSN 3396, a student must serve as an intern throughout the semester or summer term that he/she is registered for BUSN 3396. Credit will not be given for internships served prior to or after the semester or summer term in which the student is registered for BUSN 3396. Credit for BUSN 3396 will not be given for internships that are served where either the owner or manager of the host organization or host supervisor is a relative of the student intern. Must be taken Pass/Fail. Students may earn credit for either BUSN 3396 or 3397, but not both.

Prerequisites: admission to the major in Business Administration and a declared concentration in International Business, completion of at least 15 hours in the core curriculum in Business Administration, junior standing, and consent of the instructor.

BUSB-3397 Internship in Business Administration

Students enrolled in BUSN 3397 will serve as interns with various firms, trade groups, governmental agencies, or public interest groups on the basis on individual preferences and the availability of assignments. The nature of the student's responsibilities will vary with the internship involved and be subject to the approval of the supervising faculty member.
To earn credit for BUSN 3397, a student must serve as an intern throughout the semester or summer term in which he/she is registered for BUSN 3397. Credit will not be given for internships served prior to or after the semester or summer term in which the student is registered for BUSN 3397. Credit for BUSN 3397 will not be given for internships that are served where either the owner or manager of the host organization or the host supervisor is a relative of the student intern. Must be taken Pass/Fail. Students may earn credit for either BUSN 3397 or 3396, but not both.

Prerequisites: admission to the major in Business Administration, completion of at least 15 hours in the core curriculum in Business Administration, junior standing, and consent of instructor.

BUSN-4130 Quanqiu Shangwu Wenhua-Zhong-Mei Jiaodian (Global Business Culture)
A companion course to BUSN/CHIN 3330 which examines the diverse business culture in China in comparison to that in other countries, particularly in the United States. This course must be taken concurrently with BUSN/CHIN 3330 and will be taught entirely in Chinese. Students must have the ability to write and converse in Chinese. (Also listed as CHIN 4130 and INTL 4130.)
Prerequisites: senior standing, CHIN 3302 or the equivalent, and consent of instructor.
Corequisite: BUSN 3330 or CHIN 3330.

BUSN-4301 Business Policy and Strategy
A study in which decision making is emphasized through the analysis of company operations in policy formulation and administration. A course in which the student can apply knowledge acquired in other courses to business problems.
Prerequisites: Completion of all other Business Core courses, ECON 1312, and senior standing.

BUSN-4362 International Branding
Strategic and critical examination of how brands, including corporate and product brands, are managed in a global environment from a multinational organization's viewpoint. Emphasis is placed on international brands in China and Chinese brands in other countries. Course taught in English. (Also listed as CHIN 4362.)
Prerequisites: senior standing and consent of instructor.

BUSN-4364 Internationalizing Intellectual Property
Examines theories and strategic significance of intellectual property within a global environment. Intellectual property such as patents, marks, industrial designs, and trade secrets are examined with an emphasis placed upon strategic and managerial intellectual property issues between the United States and China. Course taught in English. (Also listed as CHIN 4364.)
Prerequisites: senior standing and consent of instructor.

FINANCE

FNCE-3301 Financial Administration of Business Firms
Financial decision making in organizations; planning and managing cash flows, raising, and allocating funds. Topics include cost of capital, capital budgeting, working capital management, and financial planning. Emphasis on non-financial corporations.
Prerequisites: ACCT 1301, ECON 1311, and BUSN 2301.

FNCE-3348 International Monetary Systems
A study of the principles and practices of foreign exchange, international money markets, the balance of payments, payments adjustment mechanism and the national policies for achieving both domestic and international objectives. Coverage includes the description and history of the relevant national and international institutions. Practice is provided in reading and understanding recent international economic events and current policy issues. (Also listed as ECON 3348.)
Prerequisites: ECON 1311 and ECON 1312

FNCE-3351 Financial Institutions and Markets
Analytical investigation of the structure, efficiency, and regulation of financial markets and institutions. Topics include determination of the level and structure of interest rates, asset valuation and the flow of funds between markets, theory and practice of financial intermediation, and the social utility of the financial sector. (Also listed as ECON 3356.)
Prerequisites: ECON 1311, and ECON 1312, and junior standing.

FNCE-3352 Investment Principles and Analysis
Analysis of common stock, bonds, options, and futures. Topics include financial markets, valuation of securities, technical analysis, market efficiency, and portfolio theory.
Prerequisites: FNCE 3301 and junior standing.
FNCE-3353 Student Managed Fund I
Prerequisites: FNCE 3301, FNCE 3352, and consent of instructor.

FNCE-3354 Student Managed Fund II
Prerequisites: FNCE 3301, FNCE 3352, FNCE 3353, and consent of instructor.

FNCE-3361 International Finance
This course emphasizes the study of the global exchange rate and associated derivatives markets with particular emphasis on foreign risk hedging; the study of financial equilibrium relations and their effects on the international capital markets, and the potential arbitrage opportunities that result in the absence of equilibrium; and the use of case studies to illustrate the application of theoretical tools on the multinational corporate environment. (Also listed as ECON 3361.)
Prerequisite: FNCE 3301 or consent of instructor.

FNCE-3-90 Studies in Finance
Designed for students wishing to continue the study of Finance beyond areas offered in regular classroom work. Credit from one to six hours. No more than a total of six credit hours may be earned in 3-90 courses in Business Administration.
Prerequisites: FNCE 3301, consent of Instructor, and junior standing.

FNCE-4351 Financial Management and Policy
Advanced study of financial theories and practices. Emphasis on case studies to develop analytical thinking about problems faced by business firms. Topics include capital budgeting, risk analysis, leasing, bankruptcy, and mergers.
Prerequisites: FNCE 3301 and junior standing.

MANAGEMENT

MGMT-2301 Management of Organizations
This course studies the management activities and processes required to successfully attain organizational goals. It includes an introduction to the principles of decision making, leadership, motivation, conflict resolution, managerial ethics, and social responsibility. Emphasis is placed on both theory and practical application in order to prepare students for future managerial roles.

MGMT-3311 Labor Economics & Labor Relations
For description see ECON 3329.

MGMT-3361 International Management
The global marketplace, its structure and dynamics, significant economic, political and cultural influences, and global resource flows will be studied from the perspective of the management strategist. Within this context, strategy formulation and implementation, the creation of an optimal portfolio of strategic business units, and the analysis of global operating and financial flows will be studied, assuming the objective of maximizing shareholder value.
Prerequisite: junior standing or consent of instructor.

MGMT-3371 Human Resources Management
Examines by discussion and experiential learning techniques the major activities associated with the area of Human Resource Management: equal employment opportunity, personnel planning and selection, training and management development, employee discipline, labor-management relations, and current topics such as AIDS and substance abuse in the workplace. Special emphasis is placed on practical application of this knowledge to general management in all types of organizations.

MGMT-3372 Organizational Behavior
Examines the nature of interpersonal and group relations in work organizations using behavioral science and modern management thought. A study of organizations as socio-technical systems with emphasis on communication, motivation, leadership, conflict resolution, and organizational development.

Prerequisites: MGMT 2301 and junior standing.

MGMT-3383 Management of Health Care Organizations

This course provides the unique knowledge and skills necessary to understand and effectively manage individuals and groups in challenging health care organizations such as hospitals, medical group practices, and nursing homes. The focus is on developing a theoretical and practical approach to managerial functions as related to dealing with health care professionals and workers, developing a conceptual understanding of the health care system in which the organization operates, and understanding the relationship between the organization, its regulatory environment and the reimbursement system. Case studies are used to provide real-world applications relevant to health care management. (Also listed as HCAD 3383.)

Prerequisite: junior standing.

MGMT-3-90 Studies in Management

Designed for students wishing to continue the study of management beyond areas offered in regular classroom work. Credit from one to six hours. No more than a total of six hours credit may be earned in 3-90 courses in Business Administration.

Prerequisites: junior standing and consent of instructor.

MGMT-4371 Strategic Management

A study of the formulation and implementation of corporate level strategies such as mergers and acquisitions, retrenchment, and entrepreneurship. The course also studies current trends in the business world and features presentations by local executives.

Prerequisite: senior standing or consent of instructor.

MANAGEMENT INFORMATION SYSTEMS

MIS-2301 Fundamentals of Information Systems

Systems theory, information quality, decision making, and the organizational role of information systems are introduced. Information technology including computing and telecommunications systems, are stressed. Concepts of organizations, information systems growth, and process improvements are introduced.

MARKETING

MKTG-2301 Principles of Marketing

Introduction to the marketing function within an organization. This course examines the relationship of the marketing process and the broader aspects of the economic, legal, technological, and competitive environments. Coverage includes those strategies associated with product planning, pricing, promotion, distribution, consumer behavior, and marketing research.

MKTG-3361 International Marketing

Examination of the international marketing environment from the perspective of a marketing manager. Includes the study of the nature of and problems and opportunities in the global marketplace. Strategic application of marketing principles to compete effectively in world markets.

Prerequisites: MKTG 2301 and junior standing, or consent of instructor.

MKTG-3381 Consumer Behavior

The study of consumer decision making and the influence upon those decisions. Examines the behavior of consumers throughout the range of prepurchase, purchase, and post purchase activities with reference to both internal psychological processes and external environmental influences on behavior.

Prerequisites: MKTG 2301 and junior standing.

MKTG-3382 Promotion Management

A study of the promotion activities of business firms; analysis of consumer buying behavior and motivation; personal selling; advertising and sales promotional techniques and the development of an integrated promotional plan.

Prerequisite: MKTG 2301 and junior standing.

MKTG-3383 Marketing and Business Research
The application of both behavioral and quantitative research to business problems. Topics include: research design, information sources, measurement techniques, questionnaire design, sampling, data analysis, and applications within the marketing mix.

Prerequisites: MKTG 2301, BUSN 2301, and junior standing.

**MKTG-3-90 Studies in Marketing**

Designed for students wishing to continue the study of marketing beyond areas offered in regular classroom work. Credit from one to six hours. No more than a total of six hours credit may be earned in 3-90 courses in Business Administration.

Prerequisites: MKTG 2301, and junior standing, and consent of instructor.

**MKTG-4381 Marketing Management**

The role of marketing in business and society. The management of the marketing function and its interrelationship with other functional areas within the organization. Problems, decisions and the decision-making process of marketing managers. Strategy formation, execution, and control.

Prerequisite: MKTG 2301 and senior standing.

**GRADUATE COURSES**

**ACCT-5341 Accounting Theory**

This course will contrast financial and social accounting issues worldwide. It will review the history of accounting and the trend toward increasingly complex capital markets and financial contracts. Positive theories as to why certain practices evolved and normative theories regarding idealized practices will be contrasted.

**ACCT-5342 Accounting Information Systems**

This course investigates the components of accounting information systems (AIS) and dynamics of change in those systems. Focus is placed upon changing computer and networking technologies in modern accounting information systems.

**ACCT-5343 Seminar in Advanced Federal Tax**

Beginning with a discussion of the sources of tax law and the basics of tax research methodology, the course will continue with coverage of corporation and shareholder taxation, taxation of partners, income taxation of trusts and estates, and the federal donative transfer taxes. Additional topics will include tax law administration, nonprofit entities, and penalty taxes.

**ACCT-5344 Fraud Examination**

This course utilizes authoritative pronouncements, internet resources, and case studies to examine the respective roles of the financial statement auditor and the certified fraud examiner. Moving beyond the consideration of fraud in a financial statement audit, students will develop an understanding of how and why occupational fraud is committed, how fraud might be deterred, and how allegations of fraud should be handled. Students will be expected to engage in research and problem solving.

**ACCT-5345 Advanced Managerial Accounting**

This course develops modern management accounting information systems for decision making and control in complex organizations. The topics include cost-volume-profit analysis, linear programming, regression analysis, activity-based costing, target costing, quality costing, and strategic cost management.

**ACCT-5346 Advanced Financial and Nonprofit Accounting**

This course introduces students to the accounting standards for business combinations along with applicable accounting and reporting standards. Consolidated financial statements are the major focus of the course. Foreign currency concepts are studied including foreign currency transactions, forward exchange contracts and translation under the latest rules. Nonprofit accounting focuses on accounting for universities, hospitals, and government.

**ACCT-5390 Selected Topics in Accounting**

Study of selected topics in accounting. May be repeated for up to 6 semester hours on different topics.

Prerequisites: graduate standing.

**BUSN-5349 Seminar in Law, Ethics, and Professional Responsibility**

An in-depth analysis of present and emerging ethical issues in professional life within the legal environment of business. Emphasis will be placed upon understanding professional and legal standards regarding practice, performance, and ethical behavior.
BUSN-5390 Seminar in Business
Study of selected topics in business. May be repeated for up to six semester hours on different topics.

FNCE-5351 Financial Analysis for Decision Making
Cash flows between the firm and financial markets; financial value and its determinants; managing working capital; analyzing and planning financial performance; cost of capital and capital budgeting.
Prerequisite: Three-hour accounting course.

FNCE-5390 Seminar in Finance
Study of selected topics in finance. May be repeated for up to six semester hours on different topics.

MGMT-5371 Human Resource Management
Critical analysis of the theoretical base and current developments related to personnel activities in organizations. Recruitment and selection, remuneration and incentives, performance appraisal, and employee relations are discussed in relation to current social trends and government regulations.

MGMT-5372 Conflict Management
A study of conceptual, analytical, and communication techniques instrumental to the management of chronic and acute conflicts in a wide variety of settings. Principles and strategies of negotiation and mediation are introduced through case studies.

MIS-5381 Database Management
This course is a broad overview of the business side of the database design and management processes. This course will familiarize students with the issues, processes, and skills necessary to align database development to a business need. This course will help the student understand the key elements of a database development project and the methods used by systems analysts, such as data, file and object structures, logical design, physical design, and implementation of a Database Management System.
Prerequisite: graduate standing or permission of instructor.

MIS-5391 Knowledge Management
This course is a survey of the principles and processes of knowledge management. This course will familiarize students with the issues that a business must address in facilitating the flow of knowledge from those in an organization who have knowledge to those who need it. This course will help the student understand key elements of the knowledge management life cycle such as knowledge creation, storage, transfer, and application; knowledge system tools; and ethical, legal, and managerial issues.
Prerequisite: graduate standing or permission of instructor.

MKTG-5390 Seminar in Marketing
Study of selected topics in marketing. May be repeated for up to six semester hours on different topics.

Faculty

WILLIAM T. BURKE III, J.D., Associate Professor

RICHARD M. BURR, Ph.D., Professor

RICHARD V. BUTLER, Ph.D., Professor of Economics; Chair

JORGE COLAZO, Ph.D., Assistant Professor

PHILIP L. COOLEY, Ph.D., Dick and Peggy Prassel Distinguished Professor of Business Administration

J. CHARLENE DAVIS, Ph.D., Associate Professor
CARL M. HUBBARD, Ph.D., Professor

RITA D. KOSNIK, Ph.D., Professor

KATHERINE J. LOPEZ, Ph.D., Assistant Professor

JULIE PERSELLIN, Ph.D., Assistant Professor

JOHN D. RICE, J.D., C.P.A., Associate Professor

KIM R. ROBERTSON, Ph.D., Associate Professor

LINDA B. SPECHT, J.D., C.P.A., Associate Professor

EUGENIO D. SUAREZ, Ph.D., Associate Professor

DONALD F. VAN EYNDE, Ph.D., Professor

SANKARAN VENKATESWAR, Ph.D., Associate Professor

DARRYL G. WALDRON, Ph.D., Professor

DANIEL T. WALZ, Ph.D., Professor

DELI YANG, Ph.D., Richard M. Burr and Donald N. Clark Professor of International Business
Courses of Study 2011 - 2012

Chemistry

Overview

Six degree programs are offered to students interested in a major in chemistry:

- Bachelor of Science degree in Chemistry
- Bachelor of Science degree in Biochemistry
- Bachelor of Science degree in Applied Chemistry
- Bachelor of Science degree in Biochemistry and Molecular Biology
- Bachelor of Arts degree in Chemistry
- Bachelor of Arts degree in Chemistry with High School Teaching Certification

The Bachelor of Science degrees in Chemistry and Biochemistry are four-year courses of study designed for those students who plan to be professional chemists and biochemists. Both of these programs meet the standards set by the American Chemical Society to train chemists for industry and graduate programs in chemistry.

The Bachelor of Science degree in Biochemistry and Molecular Biology is offered jointly with the Department of Biology, and meets the needs of students preparing for graduate studies at the interface of chemistry and biology. Course offerings in this program are balanced between Chemistry and Biology, whereas the B.S. in Biochemistry coursework is primarily in Chemistry.

The Bachelor of Arts program is suitable for students who desire a core degree in Chemistry and provides the flexibility to couple that desire with other interests and opportunities. Students earning the B.A. in Chemistry can go on to graduate study, and this degree is appropriate for students interested in art conservation, premedical training, secondary school teaching, and interdisciplinary studies such as biophysics, environmental sciences, oceanography, and toxicology. The B.A. in Chemistry with High School Teaching Certification provides the necessary coursework to enter into secondary school teaching or to enter professional training programs like Trinity’s MAT program.

All students interested in a major are encouraged to begin research involvements during their first and sophomore years. The course offering “Research Techniques and Applications” (CHEM 1190) provides students with the opportunity to be engaged in the ongoing research programs of chemistry faculty, and a significant component of this experience will involve the use of sophisticated instrumentation for specific research applications. The junior-senior course “Independent Research in Chemistry and Biochemistry” (CHEM 3-90) then allows experienced students to undertake suitably challenging projects with faculty.

Requirements

BACHELOR OF ARTS DEGREE

The requirements for the degree of Bachelor of Arts with a major in chemistry are as follows:

I. The common curriculum

II. Departmental requirements:

A. 31-32 credits in chemistry: CHEM 1318, 1118, 2319, 2119, 2320, 2220, 3330, 2130, 3000, 3432, 3334, 3135, 3321, 3121, and one upper division course selected from CHEM 3335, 4242, 4340, 4346, or 4347.

B. MATH 1307 or 1311, 1308 or 1312.

C. PHYS 1111, 1112, 1309 or 1311, 1310 or 1312.

III. Electives sufficient to total 124 semester hours.
BACHELOR OF ARTS DEGREE WITH HIGH SCHOOL TEACHING CERTIFICATION
The requirements for the degree of Bachelor of Arts with a major in chemistry with 8-12 teacher certification are as follows:

I. The common curriculum

II. Departmental requirements:
   A. 32 credits in chemistry including CHEM 1318, 1118, 2319, 2119, 2320, 2220, 3330, 2130, 3000, 3432, 3334, 3335, 3135, 3321, 3121.
   B. MATH 1307 or 1311, 1308 or 1312
   C. PHYS 1111, 1112, 1309 or 1311, 1310 or 1312
   D. EDUC 2203, 3320, 3331

The recommended full Education Course of Study to teach high school chemistry is: (a) EDUC 1105 and 1106 for first year students; (b) EDUC 2202, 2203 or 3303, 3320, 3331, 3342; (c) EDUC 4100

III. Electives sufficient to total 124 semester hours.

BACHELOR OF SCIENCE DEGREE IN CHEMISTRY
The requirements for the degree of Bachelor of Science with a major in chemistry are as follows:

I. The common curriculum

II. Departmental requirements:
   A. 44 credits in chemistry: CHEM 1318, 1118, 2319, 2119, 2320, 2220, 3330, 2130, 3001, 3101, 3190, 3432, 3334, 3135, 3321, 3121, 3335, 4242, 4250 and two courses selected from 4340, 4346 and 4347. Students may substitute an advanced course in molecular biology, engineering science, or physics for one of the two advanced electives in chemistry. This substitution must be approved by the department chair.
   B. MATH 1311, 1312, plus one additional course from MATH 2321 or 3316.
   C. PHYS 1111, 1112, 1309 or 1311, 1310 or 1312.

III. Electives sufficient to total 124 semester hours.

BACHELOR OF SCIENCE DEGREE IN BIOCHEMISTRY
The requirements for the degree of Bachelor of Science with a major in biochemistry are as follows:

I. The common curriculum

II. Departmental requirements:
   A. 38 credits in chemistry: CHEM 1318, 1118, 2319, 2119, 2320, 2220, 3330, 2130, 3131, 3432, 3334, 3135, 3321, 3121, 4242, 4340, and one course chosen from 3335, 4346, and 4347.
   B. BIOL 1311, 1111, 1312, 1212, 3430.
   C. CHEM 3190 or BIOL 3190.
   D. PHYS 1111, 1112, 1309 or 1311, 1310 or 1312.
   E. MATH 1307 or 1311, 1308 or 1312.

III. Electives sufficient to total 124 semester hours.

BACHELOR OF SCIENCE DEGREE IN APPLIED CHEMISTRY
The requirements for the degree of Bachelor of Science with a major in applied chemistry are as follows:

I. The common curriculum

II. Departmental requirements:
   A. 32-35 credits in chemistry, including CHEM 1318, 1118, 2319, 2119, 2320, 2220, 3330, 2130, 3190, 3000, 3432, 3334, 3135, 3321, 3121, 3335.
   B. ENGR 2311, 4366, 4357 or 4358, one additional course selected from ENGR 2359, 3323, 4357, 4358, 4341.
   C. One additional advanced elective course selected from CHEM 4340, 4242, 4250 or an upper division engineering science course
   D. MATH 1311, 1312, 2321, 3316
   E. PHYS 1111, 1111, 1312, 1112.
   F. ECON 1311

III. Electives sufficient to total 124 semester hours.
GUIDELINES FOR ACCEPTANCE OF MAJORS

Full acceptance is granted if the following requirements are met at the time of application:

1. Completion of CHEM 1318, 1118, 2319, 2119, 2320, 2220 with grades of C or better.
2. Completion of MATH 1311 with a grade of C or better.
3. A grade point average of at least 2.0 on all other university work.

Provisional acceptance may be granted if it is apparent that the applicant can meet the requirements for full acceptance by the end of the semester in which application is made. Transfer students will be accepted provisionally pending completion at Trinity of at least one upper division chemistry course, which includes lab, with a grade of C or better.

THE MINOR

A minor in chemistry may be obtained by successful completion of a minimum of 20 hours in chemistry, to include CHEM 1318, 1118, 2319, 2119, 2320, 2220, and at least 6 additional hours in upper division courses. CHEM 3001 and 3011 cannot be used towards satisfying the upper division course requirement.

HONORS IN CHEMISTRY

In addition to the minimum requirements for an honors thesis described earlier, the Department of Chemistry has the following requirements:

Application and Procedures

Students planning to write an Honors Thesis in Chemistry should discuss research opportunities with at least three faculty members. Normally the choice of research director will be made in the first semester of the Junior year, although students with extraordinary research experience, including research during a summer, may defer the choice of research director for one or two semesters.

Requirements

The Honors Program in Chemistry requires a minimum of nine credit hours of research normally arranged over three semesters. At least six of these hours must be taken in the senior year and devoted to the thesis research. If a student has worked full-time on research related to the thesis for a minimum of ten weeks during one summer, the department may waive the requirement for three of the nine credit hours. Submission of the final research report for the summer is required for this waiver.

BACHELOR OF SCIENCE DEGREE IN BIOCHEMISTRY AND MOLECULAR BIOLOGY

The requirements for the degree Bachelor of Science with a major in Biochemistry and Molecular Biology are as follows:

I. The common curriculum

II. Departmental requirements:

   A. 48-49 credits in chemistry and biology, distributed as follows:

      i. Core Courses. BIOL 1311, 1111, 1312, 1212, 3430, 3464, CHEM 1318, 1118, 2319, 2119, 2320, 2220, 3330, 2130, 3131, 3334, and 4340; BIOL 3000 or CHEM 300C (1 semester).

      ii. Advanced Electives. Two courses chosen from the following list (one from each department): BIOL 3441, 3448, 3456, 3459, 3462, CHEM 3432, 4346, 4347, or the combination of 3321 and 3121.

   B. MATH 1307 or 1311, 1308 or 1312.

   C. PHYS 1111, 1112, 1309, 1310.

III. Electives sufficient to total 124 semester hours.

GUIDELINES FOR ACCEPTANCE OF MAJORS

Full acceptance is granted if the following requirements are met at the time of application:

1. Completion of CHEM 1318, 1118, 2319, 2119, 2320, 2220 and BIOL 1311, 1111, 1312, 1212 with grades of C or better.
2. Completion of MATH 1307 or 1311 with a grade of C or better.
3. A grade point average of at least 2.0 on all other university work.

Provisional acceptance may be granted if it is apparent that an applicant can meet the requirements for full acceptance by the end of the semester in which application is made. Transfer students will be accepted provisionally pending completion at Trinity of at least one upper division chemistry and biology course, which includes laboratories, with a grade of C or better.

HONORS IN BIOCHEMISTRY AND MOLECULAR BIOLOGY

Students may undertake honors under the direction of faculty in either the Biology or Chemistry Departments. The procedures and requirements will be determined by the department affiliation of the research mentor. These are described in the Biology and Chemistry sections of this bulletin.
Courses

CHEM-1118 General Chemistry Laboratory

Emphasis is placed on the development of laboratory skills that are fundamental to experimental chemistry. Laboratory operations include the use of modern potentiometric and spectrophotometric methods of analysis as well as traditional gravimetric and volumetric procedures.

Corequisite: CHEM 1318.

CHEM-1190 Research Techniques and Applications

Involvement in ongoing research programs with individual faculty. Information retrieval, chemical and instrumental methods, and experimental design for the solution of specific problems are emphasized. 6 laboratory hours a week for 1 semester.

Prerequisite: consent of instructor.

CHEM-1300 Introduction to Chemistry

Introduction to the fundamental concepts of chemistry including the mole, stoichiometry, balanced reactions, electronics structure, chemical bonding, and intermolecular interactions with modern examples. An emphasis will be placed on problem solving involving mathematics. CHEM 1300 provides a thorough preparation for CHEM 1318. Lecture, 3 hours per week.

CHEM-1301 The Chemistry of Crime

The study of forensic chemistry, with an emphasis on the scientific basis for the various techniques used in solving crimes. The course is designed as studio course which includes both lectures and laboratory experiments during the class period. The course will contain a minimum of 25 hours of laboratory activities. Two field trips on Friday afternoon/Saturday morning may be required. This course is intended for students who major in a non-science discipline. No student who has already fulfilled (or who is currently enrolled in a course fulfilling) the Using Scientific Methods section of the Understanding Natural Science and Technology portion of the Common Curriculum may register for CHEM 1301.

CHEM-1305 The Chemistry of Art

The study of the chemical foundation of the art world. Topics range from a study of the historical development of technical innovations and discoveries which impacted the evolution of art, to the chemical and physical properties of artists' materials, to an introduction to conservation and the analysis of works of art. The course is designed as a studio course which includes both lectures and laboratory experiments during the class period. A minimum of one half of the course meeting times will be laboratory activities. This course is intended for students who major in a non-science discipline. No student who has already fulfilled (or who is currently enrolled in a course fulfilling) the Using Scientific Methods section of the Understanding Natural Science and Technology portion of the Common Curriculum may register for CHEM 1305.

CHEM-1318 General Chemistry

Fundamental concepts in chemical science, taught from perspectives of chemistry in the modern world, with emphasis placed on quantitative problem solving. Course content will include stoichiometry and mass relationships, properties of solutions, atomic structure, molecular structure and bonding, intermolecular forces, chemical equilibrium, thermodynamics and kinetics. Lecture, 3 hours per week. Credit for the Common Curriculum will not be granted for both CHEM 1300 and CHEM 1318.

Prerequisite: passing the Chemistry Placement exam or CHEM 1300.

Corequisite: CHEM 1118.

CHEM-2119 Laboratory Methods in Organic Chemistry

The laboratory stresses modern techniques for the preparation and analysis of organic compounds. Infrared spectral analyses and chromatographic separations are introduced. Laboratory, 3 hours per week.

Prerequisite: CHEM 1118 or equivalent.

Corequisite: CHEM 2319.

CHEM-2130 Advanced Chemical Principles Laboratory

Emphasis is placed on the development of foundational laboratory techniques and skills, including attention to details and precision. Utilizing quantitative instrumental techniques, students build a deeper level of experimentation and problem solving skills while becoming increasingly independent. Laboratory, 3 hours per week.

Prerequisite: CHEM 2220.

CHEM-2180 Biomolecular Research Methods
Investigative skills for interdisciplinary research in the biological and chemical sciences. The use of modern fluorescence, spectroscopy, microcalorimetry, and mass spectrometry to solve biomolecular research problems. Research topics will vary from year to year and may include protein studies, biomolecular stability, and biomolecular recognition. (Also listed as BIOL 2180.)

Prerequisites: BIOL 1312, 1212, CHEM 2319, 2119, and consent of instructor.

**CHEM-2220 Chemical Synthesis Laboratory**

Continued development of student laboratory experience with emphasis on organic and inorganic syntheses. Nuclear magnetic resonance spectroscopy, use of Chemical Abstracts, and technical writing are emphasized. Laboratory, 5 hours per week, alternate weeks; discussion session 1 hour each week.

Pre- or corequisite: CHEM 2320.

Prerequisite: CHEM 2119.

**CHEM-2305 Chemistry for the Visual Artist**

The study of the chemical foundations of the visual arts. Topics range from a study of the historical development of technical innovations and discoveries that impacted the evolution of art, to the chemical and physical properties of artists' materials, to an introduction to conservation, and the analysis of works of art. The course is designed to include both lectures and laboratory experiments during the class period. A minimum of one half of the course meeting times will be laboratory activities. A field trip may be included. The laboratory activities will be expanded and built upon in the co requisite course, ART 2305. This course is intended for students who major in a non-science discipline. No student who has already fulfilled (or who is currently enrolled in a course fulfilling) the Using Scientific Methods section of the Understanding Natural Science and Technology portion of the Common Curriculum may register for CHEM 2305. Students may register for one of CHEM 1305 or CHEM 2305.

Corequisite: ART 2305.

**CHEM-2319 Organic Chemistry I**

Introduction to the basic principles of organic chemistry through studies of the structures, properties, and reactions of carbon-based compounds. Lecture, 3 hours per week.

Prerequisite: CHEM 1318 or equivalent.

Corequisite: CHEM 2119.

**CHEM-2320 Organic Chemistry II**

The continuation of Chemistry 2319 with emphasis on structure-activity relationships, mechanisms, and synthesis of complex organic compounds. Lecture, 3 hours per week.

Prerequisite: CHEM 2319.

**CHEM-2340 Application of Chemical Principles**

Application of chemical structure, thermodynamics, and kinetics to a broad range of problems, including acid-based reactions, redox reactions, and energy production. Lecture, 3 hours per week.

Prerequisite: CHEM 2319.

**CHEM-3000 BCMB Seminar**

Students must attend a minimum of 10 scientific seminars. Appropriate seminars are those offered by the Department of Biology, the Department of Chemistry, the Department of Physics and Astronomy, the Neuroscience Program, and/or seminars presented as part of the Distinguished Scientist Lecture Series. Pass/Fail.

**CHEM-3001 Chemistry Seminar I**

Exposure to the breadth of chemistry through attendance at the department seminar. Students will have the opportunity to interact with the speaker and discuss the work in greater detail. Short essays based on the lectures and reading from the chemical literature will be assigned for the student to assess the significance of the work and place it into the larger scientific context. Pass/Fail only.

**CHEM-3101 Chemistry Seminar II**

Exposure to the breadth of chemistry through attendance at the department seminar. Students will have the opportunity to interact with the speaker and discuss the work in greater detail. Short essays based on the lectures and readings from the chemical literature will be assigned for the student to assess the significance of the work and place it into the larger scientific context. Course may be repeated up to three times. Pass/Fail only.

Prerequisite: CHEM 3001.

**CHEM-3121 Inorganic Chemistry Laboratory**
Synthesis, spectroscope characterization, and reactivity studies of inorganic compounds. Students will develop advanced synthesis and characterization techniques, and will become familiar with the Inorganic Chemistry literature. In the second half of the semester, students may be able to develop individual projects relating to the broader fields of interest. Laboratory 3 hours per week.

Prerequisite: CHEM 2220, 3334.
Pre- or corequisite: CHEM 3135, 3321, or consent of instructor.

CHEM-3131 Biochemistry Laboratory
An introduction to modern experimental biochemistry. The course emphasizes analytical and physical methods used in isolating and determining the properties of proteins, and nucleic acids. Laboratory, 3 hours per week.

Prerequisites: CHEM 3330, 2220.

CHEM-3135 Physical Chemistry Laboratory
Experimentation in physical and biophysical chemistry using modern laboratory techniques and instrumentation. The emphasis of the course are to illustrate physical chemistry principles and to develop careful and critical experimental expertise. Topics covered include chemical kinetics, thermodynamics and equilibrium. Laboratory, 3 hours per week.

Prerequisites: CHEM 3334, 3432.

CHEM-3321 Inorganic Chemistry
Chemistry of the main group and transition metal elements, with emphasis on the application of fundamental chemical principles to trends in stability and reactivity. Topics include atomic theories, bonding, molecular structure, symmetry and group theory, acid-base theories, thermodynamic properties, kinetics and reactivity, redox properties, coordination compounds, organometallic chemistry, solid state chemistry, catalysis and bioinorganic chemistry. Lecture 3 hours per week.

Prerequisites: CHEM 2320, 3334.
Corequisite: CHEM 3121.

CHEM-3330 Biochemistry
The structure and function of biological molecules. The course emphasizes protein and nucleic acid structure and metabolism, mechanisms of enzyme action, membrane structure and dynamics, and energy production, storage, and utilization. Lecture, 3 hours per week.

Prerequisite: CHEM 3321.

CHEM-3334 Physical Chemistry I
Emphasis is placed on the effect of temperature, pressure, volume and chemical composition on chemical equilibrium and reaction rates through the development of fundamental principles of chemical thermodynamics and reaction kinetics. Lecture, 3 hours per week.

Prerequisites: CHEM 1318, MATH 1312.
Pre- or corequisite: PHYS 1309.

CHEM-3335 Physical Chemistry II
A continuation of Chemistry 3334 with emphasis on quantum mechanical approaches to chemical structure and dynamics, statistical mechanics, and theoretical developments in chemistry. Lecture, 3 hours per week.

Prerequisite: CHEM 3334.
Pre- or corequisite: PHYS 1310.

CHEM-3-90 Independent Research Chemistry & Biochemistry
Analyses directed to the solution of a problem having mutual student and faculty interest. All available instrumental and technical resources appropriate to this research are employed. Oral and written communication of results are required. 6 laboratory hours a week per credit hour. An end of semester written report is required. Attendance at departmental seminars is expected.

Prerequisite: junior standing.

CHEM-3398 Honors Readings

Independent study in selected areas in preparation for Honors Thesis. May be taken for up to three hours of credit.

Prerequisite: consent of instructor.
CHEM-3432 Analytical Chemistry

Principles of quantitative chemical analysis. Discussions will include topics such as sampling, statistical analysis, experimental design and optimization, chemical equilibrium, volumetric and gravimetric techniques, electrochemistry, and elementary instrumental analysis. Typical laboratory experience includes volumetric analysis and elementary instrumental analysis. 3 lecture hours and 3 lab hours per week.

Prerequisite: CHEM 2319.

CHEM-4194 Major's Seminar

A seminar course for junior and senior chemistry majors. Attendance at weekly departmental seminars is required. In addition, each student will prepare an abstract and give an oral presentation on a current topic in chemical science. May be repeated for up to four hours credit. Pass/Fail.

CHEM-4242 Advanced Analytical Methods

Principles of modern instrumental analysis, with emphasis on separation methods and mass spectrometry. Both theory and practical experience are addressed. Appropriate laboratory experience emphasizes use of sophisticated chemical instrumentation. Equivalent of 1 lecture hour and 3 laboratory hours per week.

Prerequisite: CHEM 3332. CHEM 3334 is recommended.

CHEM-4250 Senior Integrated Laboratory

Advanced experimentation in chemistry and biochemistry. A team-taught course designed to bring the perspectives of multiple disciplines to bear on advanced laboratory problems. The emphasis in the course will be on the use of emission and absorption spectroscopy, magnetic resonance, electrochemistry, and computational chemistry to study complex chemical and biochemical problems. Equivalent of 1 lecture hour and 6 laboratory hours per week.

Prerequisites: CHEM 3334, 3335, 3135, 4242.

CHEM-4340 Biochemistry II

The continuation of CHEM 3330 with emphasis on metabolism, biosynthesis, and gene expression. Lecture, 3 hours per week.

Prerequisites: CHEM 3330, 3334.

CHEM-4346 Advanced Interdisciplinary Topics - Fall

Advanced topics in chemistry, with an emphasis on modern approaches in interdisciplinary areas. Topics will vary from semester to semester and may include physical inorganic, physical organic, bioinorganic, bioorganic, organometallic chemistry or the chemistry of materials. Lecture, 3 hours per week.

Pre- or corequisite: CHEM 3334.

CHEM-4347 Advanced Interdisciplinary Topics - Spring

Advanced topics in chemistry, with an emphasis on modern approaches in interdisciplinary areas. Topics will vary from semester to semester and may include physical inorganic, physical organic, bioinorganic bioorganic, bicanalytical, organometallic chemistry, or the chemistry of materials. Lecture, 3 hours per week, Spring.

Prerequisite: CHEM 3334.

CHEM-4395 Thesis Research in Chemistry and Biochemistry

Written communication of research performed at Trinity University in thesis form. Course enrollment requires a minimum of two semesters of research involvement in a research project and the permission of the department chair.

CHEM-4399 Honors Thesis

Individual research and scholarly investigation under faculty supervision leading to the preparation of an Honors Thesis. To be taken only by Senior Honors students in both terms of their Senior year. Includes participation in Senior Colloquium where students present reports on their Thesis work.

Faculty

STEVEN M. BACHRACH, Ph.D., Dr. D. R. Semmes Distinguished Professor of Chemistry; Chair

MICHELLE M. BUSHEY, Ph.D., Professor
Courses of Study 2011 - 2012

Classical Studies

Overview

The Department of Classical Studies encompasses the study of all aspects of the Ancient Mediterranean world. The program is highly interdisciplinary in nature, bringing together the fields of history, literature, religion, philosophy, human communication and theatre, art history, archaeology, anthropology, political science, and so forth. The Department offers four majors: Ancient Mediterranean Studies, Greek, Latin, and Classical Languages. Ancient Mediterranean Studies is a major in ancient culture and does not require a language, although language courses do count toward this degree. Courses offered through the Departments of Art and Art History, History, Human Communication and Theatre, Philosophy, Political Science, Religion, and Sociology and Anthropology form part of the program of the Department of Classical Studies. The program offers an excellent focus for a liberal arts education and combines well with majors in other fields in both the humanities and sciences.

Students interested in graduate work in Classical Studies or related fields should be advised early on that a knowledge of both languages is essential for work in a good graduate school. The requirements for the major are only a minimum, and students preparing for graduate study should start language courses as soon as possible. Note that courses credited towards the major in one field (Ancient Mediterranean Studies, Greek, Latin, or Classical Languages) may also be credited toward a minor in another but may not be credited towards a second major in the Department.

Requirements

ANCIENT MEDITERRANEAN STUDIES

Requirements for a Bachelor of Arts with a major in Ancient Mediterranean Studies are as follows:

I. The common curriculum

II. Departmental requirements: 30 hours of courses chosen from those listed below under Classics Courses in English, Greek, or Latin, including 18 upper division hours. At least 12 hours must be CLAS hours. This major does not require a language, although language courses do count for this degree. Greek and Latin courses credited towards the Ancient Mediterranean Studies major may also be credited towards the minor in Greek or Latin.

III. Electives sufficient to total 124 hours.

GREEK

Requirements for a Bachelor of Arts with a major in Greek are as follows:

I. The common curriculum

II. Departmental requirements:
   A. Completion of the elementary and intermediate sequence of courses (12 hours) or the equivalent in Greek.
   B. 27 additional hours of courses chosen from those listed below under Classics Courses in English, Greek, or Latin, including 12 upper division hours of Greek. (Courses in Latin credited towards the Greek major may also be credited towards the minor in Latin.)

III. Electives sufficient to total 124 hours.

LATIN

Requirements for a Bachelor of Arts with a major in Latin are as follows:

I. The common curriculum

II. Departmental requirements:
   A. Completion of the elementary and intermediate sequence of courses (13 hours) or the equivalent in Latin.
   B. 26 additional hours of courses chosen from those listed below under Classics Courses in English, Greek, or Latin, including 12 upper division hours of Latin. (Courses in Greek credited towards the Latin major may also be credited towards the minor in Greek.)

III. Electives sufficient to total 124 hours.
CLASSICAL LANGUAGES

Requirements for a Bachelor of Arts with a major in Classical Languages are as follows:

I. The common curriculum
II. Departmental requirements:
   A. Completion of the elementary and intermediate sequence of courses (25 hours) or the equivalent in both Greek and Latin.
   B. 22 hours of courses chosen from those listed below under Classics Courses in English, Greek, or Latin, including 15 upper division hours of either Greek or Latin, with at least 6 hours of each.
III. Electives sufficient to total 124 hours.

THE MINOR

Classical Studies at Trinity is highly interdisciplinary in nature, bringing together the fields of history, literature, religion, philosophy, speech and drama, art history, archaeology, anthropology, political science, and so forth. The Department of Classical Studies offers three minors: Ancient Mediterranean Studies, Greek, and Latin. Ancient Mediterranean Studies is a minor in ancient culture and does not require a language, although language courses do count toward this degree. In addition to the University's regulations for minors, students should complete the following Departmental requirements.

ANCIENT MEDITERRANEAN STUDIES

Completion of at least 18 hours of courses chosen from those listed below under Classics Courses in English, Greek, or Latin, of which at least 9 hours must be in the upper division. At least 6 hours must be CLAS hours. Ancient Mediterranean Studies is a minor in ancient culture and does not require a language, although language courses do count toward this degree. No more than 3 hours may overlap with the student's major. A minimum of 12 hours toward the minor must be completed at Trinity.

GREEK

Completion of at least 18 hours in Greek, of which at least 6 must be in the upper division. A minimum of 12 hours toward the minor must be completed at Trinity.

LATIN

Completion of at least 18 hours in Latin, of which at least 6 must be in the upper division. A minimum of 12 hours toward the minor must be completed at Trinity.

THE HONORS PROGRAM

I. University requirements
II. Departmental requirements:
   The Department of Classical Studies offers an Honors Program in Classics. The requirements for Honors in Classical Studies are the same as the University requirements. For further information, please consult the chair of the department as early as possible in the first semester of the junior year.

LANGUAGE SKILLS

All courses under the heading Classics Courses in English are taught through the medium of English translation and no knowledge of Greek or Latin is required. Courses under the headings Greek and Latin are directed to the acquisition of those languages, respectively.

Courses

CLASSICS COURSES IN ENGLISH

LOWER DIVISION

CLAS-1301 Topics in Classical Studies
Study of topics related to the ancient Mediterranean world and its legacy, such as Latin and Greek elements in the English language, classical civilization, etc. May be taken more than once, provided that topics vary.

CLAS-1302 Literary Classics of the Ancient Greek World
A study of certain major works of ancient Greek literature in their entirety, and a survey of the major Greek authors and of their contribution to European literature. All works will be read in English translation.

CLAS-1303 Literary Classics of the Roman World
A study of certain major works of Latin literature in their entirety, and a survey of the major Latin authors and of their contribution to European literature. All works will be read in English translation.

CLAS-1304 Introduction to Classical Archaeology
An introduction to the history of archaeological activity in the Mediterranean, and archaeological theory and field techniques. Course will also examine major sites and monuments of ancient Greece and Rome. (Also listed as ANTH 1304.)

CLAS-1305 Classical Mythology
An introductory survey of the major myths of the classical world, drawing on evidence from ancient literature and art. Course may also explore modern theoretical approaches (anthropological, historical, political, linguistic, feminist, psychological, etc.) to the study of myth in general, and how these modern theories have been applied to classical myth.

CLAS-1306 Ancient Science and Technology
An examination of the attitude to science and technology in the ancient world and how this differed from today. Study of the scientific and technological achievements of the ancient world, major works of engineering, and major writings on scientific or technological subjects.

CLAS-1307 Gender and Identity in the Ancient World
An examination of the roles of women and men in the society, religion, and culture of the ancient world. Readings will include historical, religious, medical, legal, philosophical, and literary texts. Representations of men and women in the visual arts will also be considered. (Also listed as HIST 1311.)

CLAS-1308 Daily Life in Ancient Rome
An introduction to the Roman world by way of the daily life of its inhabitants, with a focus on the urban experience. Evidence will include literary texts, inscriptions, epitaphs, graffiti, painting, sculpture, wills, letters, and the art and architecture of domestic space.

CLAS-1309 Pirates, Merchants, and Marines: Seafaring in the Ancient Mediterranean
This course explores how human relations with the sea affected the social, economic, military, political, and technological aspects of life in the ancient Mediterranean littoral. Evidence includes hulls and cargoes of shipwrecks, harborworks, inscriptions, graffiti, wall painting and mosaics, literary texts, and gravestones. A central focus will be an introduction to the methodology and technologies of archaeology, but the subject matter of this course and the nature of the discipline of maritime archaeology incorporate methodologies and substance also from the fields of Anthropology, Ethnography, Physical Sciences, Engineering, Art History, History, and Geography. (Also listed as ANTH 1309.)

CLAS-1310 Daily Life in Ancient Greece
An introduction to the ancient Greek world by way of the daily life of its inhabitants, with a focus on the urban experience. Evidence will include literary texts, inscriptions, epitaphs, painting, sculpture, and the art and architecture of domestic public space.

CLAS-1312 Greeks, Romans, and Barbarians
This course gives students an opportunity to examine the cultures and achievements of peoples labeled "barbarians" by the ancient Greeks and Romans. Students will use a broad selection of historical documents originating from the Near East, Egypt, Greece and Rome, as well as the results of archaeological research, for investigating the social structures and values of these cultures. Critical methods for interpreting ancient and modern evidence about these societies will also be discussed. (Also listed as HIST 1312.)

ANTH-1304 Introduction to Classical Archaeology
(For description, see under Sociology and Anthropology.)

ANTH-1309 Pirates, Merchants and Marines: Seafaring in the Ancient Mediterranean
(For description, see under Sociology and Anthropology.)

ANTH-2312 The Anthropology of Ancient Israel
(For description, see under Sociology and Anthropology.) (Also listed as RELI 1351.)

ARTH-1307 Art History I: Prehistoric Through Medieval Art
(For description, see under Art and Art History.)

ARTH-1313 Art and Archaeology of Ancient Egypt
(For description, see under Art and Art History.)
HIST-1310 Ancient Greece and Rome  
(For description, see under History.)

HIST-1311 Gender and Identity in the Ancient World  
(For description, see under History.)

HIST-1312 Greeks, Romans, and Barbarians  
(For description, see under History.)

HCOM-2350 Classical Rhetorical Theory  
(For description, see under Human Communication and Theatre.)

RELI-1351 The Anthropology of Ancient Israel  
(For description, see under Religion.) (Also listed as ANTH 2312.)

UPPER DIVISION

CLAS-3301 Advanced Topics in Classical Studies  
Advanced study of topics related to the ancient Mediterranean world and its legacy, such as Neronian culture, ancient scripts, Hellenistic and Greek Imperial literature, the Byzantine world. May be taken more than once, provided that topics vary.  
Prerequisite: sophomore standing or consent of instructor.

CLAS-3302 Greek and Roman Epic  
A study of such epics as Homer's Iliad and Odyssey and Virgil's Aeneid, read in English, with attention to changes in concepts of heroism and the self. Discussions will also focus on how the epics reflect cultural and political life.  
Prerequisite: sophomore standing or consent of instructor.

CLAS-3303 Greek and Roman Drama  
A study of Greek and Roman tragedies and comedies, read in English, with attention to how the plays reflect contemporary (and enduring) social, theatrical, and political concerns.  
(Also listed as ENGL 3322 and THTR 3335.)  
Prerequisite: sophomore standing or consent of instructor.

CLAS-3304 The Ancient Romance and Novel  
A study of ancient prose fiction, which focuses largely on love and adventure. Discussions emphasize social, religious, and aesthetic issues raised by individual works, and special attention is paid to the ancient romance's relation to the medieval romance and the modern novel.  
Prerequisite: sophomore standing or consent of instructor.

CLAS-3305 Antiquity and Modernity  
Antiquity and Modernity explores the ways in which the ancient world is constructed through the lenses of modern literature, art, and scholarship, focusing especially on the period between the two world wars. Topics to be covered include the influence of Greek texts on modern constructions of sexuality (Freud, Foucault, Plato, The Greek Anthology); the links between the avant-garde of both the ancient and modern worlds (Propertius and Pound); the old and new Romes (Augustus and Mussolini); and the dramatic manipulation of myth (Sophocles and Stravinsky's Oedipus Rex.) Other works include Thornton Wilder's The Ides of March, Lucian's Dialogues of the Courtesans, and Ronald Syme's The Roman Revolution. All readings are in translation.  
Prerequisite: sophomore standing or consent of instructor.

CLAS-3306 Ancient Cyprus  
A survey of the material, political and cultural histories of Cyprus, from the arrival of the first human inhabitants (10th millennium BCE) through the rule of the Roman emperors (4th century CE), with a special emphasis on themes of diversity, assimilation and identity. The early history of the island will be considered primarily through the archaeological discoveries, which, prior to the availability of written records, are our only source of information. The later history will draw on other sources, such as historical and literary texts, inscriptions, sculpture, mosaics, and monuments.  
Prerequisite: sophomore standing or consent of instructor.
CLAS-3307 The Homeric Iliad
The Homeric Iliad provides an intensive examination of a fundamental text of antiquity, including its historical, archaeological, and anthropological contexts. All readings are in English translation.
Prerequisite: sophomore standing or consent of instructor.

CLAS-3308 The Homeric Odyssey
The Homeric Odyssey provides an intensive examination of a fundamental text of antiquity, including its historical, archaeological, and anthropological contexts. All readings are in English translation.
Prerequisite: sophomore standing or consent of instructor.

CLAS-3309 Epic Journeys
A comparative study of epic traditions in literature and film. In the first half of the course, we focus on traditional epics, such as Gilgamesh, Homer's Odyssey, the Iliad of the Fast Runner, and the Korean song tradition of Chunhyang, focusing especially on themes such as the heroic journey, exile and homecoming. In the second half of the course, we examine the reception of traditional epic in the modern Western literacy tradition and films. (Also listed as CMLT 3309.)
Prerequisite: sophomore standing or consent of instructor.

CLAS-3319 The World of Late Antiquity
A study of the political, cultural, and religious life of the Roman Empire from the second to the fifth centuries CE - a vital transitional period between the classical and medieval worlds. Beginning with the "golden age" of the Antonine emperors, this course examines the military and political "crisis" of the third century, the Christianization of the empire in the fourth, and the religious and cultural conflicts that accompanied the fragmentation of power in the fifth. (Also listed as HIST 3319.)
Prerequisite: sophomore standing or consent of instructor.

CLAS-3338 Greek Religious Experience
A study of Greek religious festivals designed to produce a coherent image of a year in the religious life of the ancient Greeks. Through a combination of archaeological and literary evidence, we will attempt to reconstruct the rituals performed at the various festivals and explore the ways in which they organized and articulated the community through shared religious experience. We shall also consider the ways in which religion organized civic space and gave it meaning. (Also listed as RELI 3338).
Prerequisite: sophomore standing or consent of instructor.

CLAS-3350 Theorizing Myth
A survey of theoretical approaches to myth from the eighteenth century to the present. This survey begins with the transition from renaissance belief that myth is a form of moral instruction conveyed by allegory to the romantic belief that myth is a symbolic mode of discourse offering insight into transcendental reality. We will then chart the evolution of this approach, beginning with its inspiration in Kantian metaphysics and early formulations by German romantics such as Schiller and proceeding on to Freud and Ricoeur. A second strand begins with Hegel's theories of "false consciousness" that would in time develop into interpretations of myth as ideology, under the influence of Marx, Adorno, and Althusser. A final strand begins with the earlier folklorists, the brothers Grimm, and would in time develop into functionalist approaches to myth by anthropologists such as Malinowski, Boas, and Levi-Strauss. The resulting big picture is as much an intellectual history of modernity as a history of theorizing myth. (Also listed as PHIL 3361)
Prerequisite: sophomore standing or consent of instructor.

CLAS-3371 Introduction to Romance Linguistics
A study of the science of language as it applies to those tongues having their origin in spoken Latin, principally French, Italian, Portuguese, Rumanian, and Spanish. Attention will be given both to historical developments and to the current situations of such languages. (Also listed as FREN 3371, ITAL 3371, and SPAN 3371).
Prerequisite: two years or the equivalent of Latin, ancient Greek, or a Romance language.

CLAS-372 Archaeological Practicum
Participation in an approved excavation in the Mediterranean world, Western Europe, or the Near East. Students will be expected to receive instruction in excavation techniques and in the recording and study of the site and the material. Two weeks' work will normally be counted as equivalent to 1 credit, up to a maximum of 3 credits.
Prerequisites: approval of the department chair and of the excavation director.

CLAS-390 Directed Studies
Individual work under supervisor in areas not covered by other courses. May be taken more than once as content varies.
Prerequisite: consent of the Department Chair.

CLAS-398 Honors Readings
Independent study in selected areas in preparation for Honors Thesis.
Prerequisite: admission to Honors Program.

CLAS-4302 Advanced Seminar in Classical Studies
A seminar on selected special topics in Classical Studies. May be taken more than once, as topics vary.
Prerequisite: Classical Studies major with senior standing.

CLAS-4-72 Archaeological Practicum II
Students who have already taken CLAS 3-72 may obtain credit for one further season of work on the same conditions as for 3-72. (Also listed as ANTH 4-72.)
Prerequisites: CLAS 3-72 and approval of the department and of the excavation director.

CLAS-4-90 Directed Studies
Individual work under supervisor in areas not covered by other courses. May be taken more than once, as content varies.
Prerequisite: consent of the department chair.

CLAS-4-91 Selected Topics
Special study in fields not covered by other courses. Variations in credit according to work performed, from 1-6 hours. May be taken more than once as content varies.
Prerequisite: consent of the department chair.

CLAS-4-97 Museum Internship
Participation in a program of study to be determined by the Department and the Curator of the Ancient Art collection at the San Antonio Museum of Art. The program will focus on conservation, museum administration, original research on holdings in the San Antonio Museum of Art, and object display. Each internship must be directed by a faculty member who will draw up an agreement between the sponsoring institution, the student, and the Department outlining the scope and requirements of the course. One to 3 hours per semester, maximum 6 semester hours. Elective only. Pass/Fail only.
Prerequisite: consent of the department chair.

CLAS-4398, 4399 Honors Thesis
Individual research and scholarly investigation under faculty supervision leading to the preparation of an Honors Thesis. To be taken only by senior Honors students in both semesters of their senior year.

ANTH-4-72 Archaeological Practicum
(For description, see under Sociology and Anthropology.)

ARTH-3320 The Minoan-Mycenaean Civilization
(For description, see under Art and Art History.)

ARTH-3321 Greek Vase Painting
(For description, see under Art and Art History.)

ARTH-3322 Greek Architecture
(For description, see under Art and Art History.)

ARTH-3325 Roman Art and Architecture
(For description, see under Art and Art History.)

ARTH-3328 Art and Archaeology of Mesopotamia and Persia
(For description, see under Art and Art History.)

ARTH-3330 Art and Architecture in the Late Classical World
(For description, see under Art and Art History.)
ARTH-3391 Topics in Art History (where appropriate)
(For description, see under Art and Art History.)

ARTH-4396 Seminar in Art History (where appropriate)
(For description, see under Art and Art History.)

ENGL-3322 Greek and Roman Drama
(For description, see under English.)

FREN-3371 Introduction to Romance Linguistics
(For description, see under Modern Languages and Literatures.)

HIST-3310 Archaic and Classical Greece
(For description, see under History.)

HIST-3314 The Mediterranean World in the Hellenistic Age
(For description, see under History.)

HIST-3318 The Roman Empire
(For description, see under History.)

HIST-3-92 Special Topics in History (where topics pertain to the ancient world)
(For description, see under History.)

ITAL-3371 Introduction to Romance Linguistics
(For description, see under Modern Languages and Literatures.)

PHIL-3310 Classical Greek Philosophy
(For description, see under Philosophy.)

PHIL-3311 Hellenistic Philosophy
(For description, see under Philosophy.)

PHIL-3381 Theorizing Myth
(For description, see under Philosophy.)

PLSI-3361 Classical Political Thought
(For description, see under Political Science.)

RELI-3338 Greek Religious Experience
(For description, see under Religion.)

RELI-3363 The Gospels, Jesus, and Christian Origins
(For description, see under Religion.)

RELI-3364 The Letters of Paul
RELI-3356 Non-Canonical Early Christian Literature  
(For description, see under Religion.)

SPAN-3371 Introduction to Romance Linguistics  
(For description, see under Modern Languages and Literatures.)

THTR-3336 Greek and Roman Drama  
(For description, see under Human Communication and Theatre.)

XXXX-3-90 Directed Studies  
Directed Studies courses in any of the above areas when dealing with the ancient world are also acceptable.  
Prerequisite: consent of the chair of Classical Studies if counting toward major or minor in Classical Studies.

XXXX-4-90 Directed Studies  
Directed Studies courses in any of the above areas when dealing with the ancient world are also acceptable.  
Prerequisite: consent of the chair of Classical Studies if counting toward major or minor in Classical Studies.

GREEK

LOWER DIVISION

GREK-1301 Elementary Classical Greek I  
3 class hours a week for 1 semester. Spring

GREK-1302 Elementary Classical Greek II  
3 class hours a week for 1 semester. Fall.  
Prerequisite: GREK 1301 or the equivalent.

GREK-2301 Intermediate Classical Greek  
3 class hours a week for 1 semester. Spring.  
Prerequisite: GREK 1302 or the equivalent.

GREK-2302 Readings in Classical Greek Literature  
Selections from Greek authors; emphasis on developing reading skills. Fall.  
Prerequisite: GREK 2301 or the equivalent.

GREK-2303 Readings in the New Testament  
Selections from the Greek New Testament. Emphasis on developing reading skills in Biblical Greek. Fall, as required.  
Prerequisite: GREK 2301 or the equivalent. May either substitute for or be taken in addition to GREK 2302.

UPPER DIVISION

GREK-3301 Homer and Greek Epic  
Selections from the Iliad and Odyssey. May also include other epic poets.  
Prerequisite: GREK 2302, 2303, or the equivalent.
GREK-3302 Attic Prose
Readings in Attic prose writers, especially Plato, Xenophon, and the orators.
Prerequisite: GREK 2302, 2303, or the equivalent

GREK-3303 Greek Drama
Readings from Greek drama.
Prerequisite: GREK 2302, 2303, or the equivalent.

GREK-3304 Greek Historians
Readings in Greek historians, especially Herodotus and Thucydides.
Prerequisite: GREK 2302, 2303, or the equivalent.

GREK-3305 Greek Lyric
A survey of Greek lyric texts in both their historical and literary contexts. Authors to be considered include Sappho, Theocritus, Theognis, and Pindar.
Prerequisite: GREK 2302, 2303, or the equivalent.

GREK-3-90 Directed Studies
Individual work under supervisor in areas not covered by other courses. May be taken more than once, as content varies.
Prerequisites: GREK 2302, 2303, or the equivalent; and consent of the department chair.

GREK-4-90 Directed Studies
Individual work under supervisor in areas not covered by other courses. May be taken more than once, as content varies.
Prerequisites: GREK 2302, 2303, or the equivalent; and consent of the department chair.

GREK-4-91 Selected Topics
Special study in fields not covered by other courses. Variation in credit according to work performed, from 1-6 hours. May be taken more than once, as content varies.
Prerequisites: GREK 2302, 2303, or the equivalent; and consent of the department chair.

LATIN
LOWER DIVISION

LATN-1301 Elementary Latin I
3 class hours a week for 1 semester. Fall.

LATN-1302 Elementary Latin II
3 class hours a week for 1 semester. Spring.
Prerequisite: LATN 1301 or the equivalent.

LATN-2301 Intermediate Latin I
3 class hours a week for 1 semester. Fall.
Prerequisite: LATN 1302 or the equivalent.

LATN-2402 Intermediate Latin II
Selections from Latin authors; emphasis on developing reading skills. Spring.
Prerequisite: LATN 2301 or the equivalent.
UPPER DIVISION

LATN-3301 Latin Prose Composition
Drill in Latin grammar through the writing of Latin. Comparison of rhetorical devices of Latin with similar usages in English.
Prerequisite: LATN 2402 or the equivalent.

LATN-3302 Virgil and Latin Epic
Selected readings from the Eclogues, the Georgics, and/or the Aeneid together with consideration of Virgil's sources and his impact upon the pastoral, didactic and epic. May also include other epic poets.
Prerequisite: LATN 2402 or the equivalent.

LATN-3303 Latin Prose to 43 B.C.
Study of prose writers of the Late Republic, such as Caesar, Cicero, Nepos, or Sallust.
Prerequisite: LATN 2402 or the equivalent.

LATN-3304 Lyric and Elegiac Poets
Selections in lyric and elegiac poetry, from authors such as Catullus, Horace, Ovid, Propertius or Tibullus.
Prerequisite: LATN 2402 or the equivalent.

LATN-3305 Latin Prose from 43 B.C.
Study of prose writers from the Augustan Age onwards, such as Livy, Pliny, Tacitus, or early Christian writers.
Prerequisite: LATN 2402 or the equivalent.

LATN-3306 Comedy and Satire
Selections in comedy and in satire, from authors such as Plautus, Terence, Horace, Juvenal, Martial or Petronius.
Prerequisite: LATN 2402 or the equivalent.

LATN-3307 Imperial Roman Literature
A study of Imperial Roman Literature in its social and historical contexts, with a special emphasis on post-Augustan texts.
Prerequisite: LATN 2402 or the equivalent.

LATN-3308 Ovid
An intensive study of the poetry of Ovid, with a particular emphasis on the poet's engagement with Augustan ideology. Texts may include a variety of genres, including epic, elegy, exile poetry, and epistolary fiction.
Prerequisite: LATN 2402 or the equivalent.

LATN-3309 The Roman Novel
An intensive investigation of Petronius' Satyricon and Apuleius' The Golden Ass, with special attention paid to issues of genre, religion, gender, and influence.
Prerequisite: LATN 2402 or the equivalent.

LATN-3-90 Directed Studies
Individual work under supervisor in areas not covered by other courses. May be taken more than once, as content varies.
Prerequisites: LATN 2402 or the equivalent, and consent of the department chair.

LATN-4-90 Directed Studies
Individual work under supervisor in areas not covered by other courses. May be taken more than once, as content varies.
Prerequisites: LATN 2402 or the equivalent, and consent of the department chair.
LATN-4-91 Selected Topics

Special study in fields not covered by other courses. Variations in credit according to work performed, from 1-6 hours. May be taken more than once, as content varies.

Prerequisites: LATN 2402 or the equivalent, and consent of the department chair.

Faculty

ERWIN F. COOK, Ph.D., T. Frank Murchison Distinguished Professor of Classical Studies

MARK B. GARRISON, Ph.D., Alice P. Brown Professor of Art and Art History

NICOLLE E. HIRSCHFELD, Ph.D., Associate Professor

THOMAS E. JENKINS, Ph.D., Associate Professor; Chair

LAWRENCE Y. KIM, Ph.D., Assistant Professor

TIMOTHY M. O'SULLIVAN, Ph.D., Associate Professor

CORINNE O. PACHE, Ph.D., Associate Professor
Courses of Study 2011 - 2012

Cognitive Science

Overview

The minor in Cognitive Science gives students the opportunity to study the nature of cognition from the point of view of several related disciplines. Psychology, philosophy, and computer science share a common interest in the nature of knowledge, the means by which it is stored, acquired, and retrieved, the commonalities shared by biological and electronic information processing entities, and the ways knowledge is used in thinking and problem solving. The minor allows students to bring the theories and methods of these various disciplines to bear on a common set of problems.

Requirements

I. Core Courses (9 hours):

- CSCI 3344 (Artificial Intelligence)*
- PHIL 3331 (Philosophy of Mind)
- PSYC 2330 (Fundamentals of Cognition)

* For students minoring in Cognitive Science, instructors have agreed to waive prerequisites other than CSCI 1320 for this course.

II. Elective Courses (9 hours):

At least one course must be chosen from the following:

- PSYC 3311 (Sensation and Perception)
- PSYC 3331 (Memory and Cognition)

The remaining hours may be chosen from the following:

- CSCI 3-90 (Directed Study)*
- CSCI 3291 (Current Topics in Computer Science)*
- NEUR 2310 (Introduction to Neuroscience)
- PHIL 2340 (Symbolic Logic I)
- PHIL 3-80 (Directed Studies)*
- PSYC 3-61 (Reading and Research)*
- PSYC 3321 (Cognitive Development)
- PSYC 3368 (Supervised Research)*

* with approval of the topic by the Chair of the Cognitive Science Committee

Courses

See the "Requirements" tab.

Faculty

CURTIS BROWN, Ph.D., Professor, Philosophy; Chair

PAULA T. HERTEL, Ph.D., Professor, Psychology

JANE B. CHILDERS, Ph.D., Associate Professor, Psychology
TRINITY UNIVERSITY

Courses of Study 2011 - 2012

Communication

Requirements

THE MAJOR

The requirements for the degree of Bachelor of Arts with a major in Communication are as follows:

I. The common curriculum

II. Departmental requirements:

A. To be accepted as a major in Communication, a student must have successfully completed COMM 1301 (Mass Media) and 2302 (Media Interpretation and Criticism).

B. Thirty (30) hours (of which at least 15 must be upper division) of course work in the Department of Communication including:

1. Nine (9) semester hours in core courses (COMM 1301, 2302, 2303).

2. Nine (9) semester hours consisting of one course from each of the following three areas of study. These courses will be chosen in consultation with faculty adviser.
   a. Three (3) semester hours in media studies (COMM 3321, 3322, 3325, 3326, 3328, 3-98, 4-90, 4398, 4399)
   b. Three (3) semester hours in media messages (COMM 3340, 3341, 3342, 3343, 3344, 3-45, 4350)
   c. Three (3) semester hours in media management (COMM 3360, 3361, 3362, 3363, 3364)

3. Nine (9) semester hours in electives in the Department of Communication.

4. Three (3) semester hours in the Communication Capstone Seminar (COMM 4395).

C. A minimum of eighteen (18) hours of course work in another department or program planned to meet the student’s interests and approved by adviser.

D. Courses in the Department of Communication exceeding 36 hours must be over and above the 124 hours required for graduation.

III. Elective hours outside the Department of Communication sufficient to total 124 hours.

THE MINOR IN COMMUNICATION

The minor in communication is designed for students who seek to enrich their liberal arts education with a greater understanding of communication.

Requirements for the minor are: Twenty-one (21) semester hours to include COMM 1301, 2302, 2303, and four (4) three-hour elective courses; at least nine (9) semester hours of the total 21 semester hours required must be upper division.

CLASSES

CORE

COMM 1301 (Mass Media)
COMM 2302 (Media Interpretation and Criticism)
COMM 2303 (Media Audiences)

CAPSTONE

COMM 4395 (Communication Capstone Seminar)

MEDIA STUDIES

COMM 3321 (Arts Criticism)
COMM 3322 (International Communication)
COMM 3325 (Special Topics in Communication Media)
COMM 3326 (History of Mass Media)
COMM 3328 (Media, Culture, and Technology)
Trinity University

COMM 3-98 (Honors Readings)
COMM 4-90 (Directed Studies in Communication)
COMM 4398, 4399 (Honors Thesis)

MEDIA MESSAGES
COMM 3340 (Media Writing)
COMM 3341 (Audio Communication)
COMM 3342 (Visual Communication)
COMM 3343 (Print Communication)
COMM 3344 (Interactive Multimedia Communication)
COMM 3-45 (Media Communication Workshop)

MEDIA MANAGEMENT
COMM 3360 (Principles of Public Relations)
COMM 3361 (Principles of Advertising)
COMM 3362 (Media Law and Policy)
COMM 3363 (Media Management)
COMM 3364 (Ethics and the Mass Media)

APPRENTICESHIP AND PRACTICE
COMM 1094 (Internship Experience)
COMM 1110, 1120, 1121, 1122, 1130, 1131, 1140, 1150, 1160, 1170 (Apprenticeship in Communication Center Media)
COMM 3300 (Media Management Practicum and Study)

ELECTIVES
COMM 1302 (Introduction to Film Studies)
COMM 2301 (International Cinema)
COMM 3120 (La Telenovela en América Latina)
COMM 3300 (Media Management Practicum and Study)

Courses

LOWER DIVISION

COMM-1094 Internship Experience
Encourages formal, off-campus media work experience. Consent of department chair required.

COMM-1110 Apprenticeship in Communication Center Media: Publication Production
Positions for students in one of the student-managed media organizations that provide news and entertainment services and programming for the campus and San Antonio area media. Assignments in writing, reporting, electronic production, and other positions are based on client needs and apprentices' interests, experience, and performance. Time and performance requirements depend on the structure and nature of each organization. Apprentices work under the direct supervision of student managers, faculty, and staff advisors. Pass/Fail. Apprenticeship may be repeated up to 3 hours.

COMM-1120 Apprenticeship in Communication Center Media: KRTU Radio Host/Trainee
Positions for students in one of the student-managed media organizations that provide news and entertainment services and programming for the campus and San Antonio area media. Assignments in writing, reporting, electronic production, and other positions are based on client needs and apprentices' interests, experience, and performance. Time and performance requirements depend on the structure and nature of each organization. Apprentices work under the direct supervision of student managers, faculty, and staff advisors. Pass/Fail. Apprenticeship may be repeated up to 3 hours.

COMM-1121 Apprenticeship in Communication Center Media: KRTU News
Positions for students in one of the student-managed media organizations that provide news and entertainment services and programming for the campus and San Antonio area media. Assignments in writing, reporting, electronic production, and other positions are based on client needs and apprentices' interests, experience, and performance. Time and performance requirements depend on the structure and nature of each organization. Apprentices work under the direct supervision of student managers, faculty, and staff advisors. Pass/Fail. Apprenticeship may be repeated up to 3 hours.

COMM-1122 Apprenticeship in Communication Center Media: KRTU Sports
Positions for students in one of the student-managed media organizations that provide news and entertainment services and programming for the campus and San Antonio area media. Assignments in writing, reporting, electronic production, and other positions are based on client needs and apprentices' interests, experience, and performance. Time and performance requirements depend on the structure and nature of each organization. Apprentices work under the direct supervision of student managers, faculty, and staff advisors. Pass/Fail. Apprenticeship may be repeated up to 3 hours.
COMM-1130 Apprenticeship in Communication Center Media: Digital Editing

Positions for students in one of the student-managed media organizations that provide news and entertainment services and programming for the campus and San Antonio area. Assignments in writing, reporting, electronic production, and other positions are based on client needs and apprentices' interests, experience, and performance. Time and performance requirements depend on the structure and nature of each organization. Apprentices work under the direct supervision of student managers, faculty, and staff advisors. Pass/Fail. Apprenticeship may be repeated up to 3 hours.

COMM-1131 Apprenticeship in Communication Center Media: TigerTV Production

Positions for students in one of the student-managed media organizations that provide news and entertainment services and programming for the campus and San Antonio area. Assignments in writing, reporting, electronic production, and other positions are based on client needs and apprentices' interests, experience, and performance. Time and performance requirements depend on the structure and nature of each organization. Apprentices work under the direct supervision of student managers, faculty, and staff advisors. Pass/Fail. Apprenticeship may be repeated up to 3 hours.

COMM-1140 Apprenticeship in Communication Center Media: Webpage Production

Positions for students in one of the student-managed media organizations that provide news and entertainment services and programming for the campus and San Antonio area. Assignments in writing, reporting, electronic production, and other positions are based on client needs and apprentices' interests, experience, and performance. Time and performance requirements depend on the structure and nature of each organization. Apprentices work under the direct supervision of student managers, faculty, and staff advisors. Pass/Fail. Apprenticeship may be repeated up to 3 hours.

COMM-1150 Apprenticeship in Communication Center Media: Public Relations

Positions for students in one of the student-managed media organizations that provide news and entertainment services and programming for the campus and San Antonio area. Assignments in writing, reporting, electronic production, and other positions are based on client needs and apprentices' interests, experience, and performance. Time and performance requirements depend on the structure and nature of each organization. Apprentices work under the direct supervision of student managers, faculty, and staff advisors. Pass/Fail. Apprenticeship may be repeated up to 3 hours.

COMM-1160 Apprenticeship in Communication Center Media: Underwriting and Development

Positions for students in one of the student-managed media organizations that provide news and entertainment services and programming for the campus and San Antonio area. Assignments in writing, reporting, electronic production, and other positions are based on client needs and apprentices' interests, experience, and performance. Time and performance requirements depend on the structure and nature of each organization. Apprentices work under the direct supervision of student managers, faculty, and staff advisors. Pass/Fail. Apprenticeship may be repeated up to 3 hours.

COMM-1170 Apprenticeship in Communication Center Media: Media Management

Positions for students in one of the student-managed media organizations that provide news and entertainment services and programming for the campus and San Antonio area. Assignments in writing, reporting, electronic production, and other positions are based on client needs and apprentices' interests, experience, and performance. Time and performance requirements depend on the structure and nature of each organization. Apprentices work under the direct supervision of student managers, faculty, and staff advisors. Pass/Fail. Apprenticeship may be repeated up to 3 hours.

COMM-1301 Mass Media

Study of the communication process and critical analysis of the structural relationships within mass media industries.

COMM-1302 Introduction to Film Studies

This course is an introduction to the artistic, cultural, and scholarly importance of film. The course focuses on the development of film as a complex art form, the evolution of narrative as part of a formal system, the development of the industry and film genres, critical and cultural approaches to film analysis, and the construction of the audience. Students will read excerpts from primary texts as well as more general texts dealing with film interpretation and criticism. (Also listed as ARTH 1301, ENGL 1301, FILM 1301, and ML&L 1301.)

COMM-2301 International Cinema

This course focuses on the cultural and critical analysis of international films as an expression of particular artistic genres and/or styles within specific historical, ideological, and cultural contexts. Films selected to have achieved wide, critical acclaim; others reveal unique and important visions of human experience; while still others are selected for their political, ideological, or sociological significance. Students should develop an awareness that the medium of film has a history and that its history is not confined to national boundaries. (Also listed as ARTH 2301, ENGL 2300, FILM 2301, and ML&L 2301.)

COMM-2302 Media Interpretation and Criticism

A critical study of the aesthetics, interpretation, and criticism of media messages.

COMM-2303 Media Audiences
A study of audiences, how they use and are affected by media.  
Prerequisite: COMM 1301 or consent of instructor.

**UPPER DIVISION**

**COMM-3120 La Telenovela En América Latina**

An examination of the Latin American telenovela, or soap opera, from the perspectives of development communication, popular culture, and international television. This course will be conducted entirely in Spanish. (Also listed as INTL 3107.)  
Prerequisite: SPAN 2302, the equivalent, or consent of instructor.

**COMM-3300 Media Management Practicum and Study**

Integration of work experience and study of management in information companies. Specific study areas include personnel, organization, programming and content policies, ethics and professional responsibilities, regulation, finance, sales, promotion, audiences, and administrative problems in newspapers, magazines, radio, television, cable, web publishing, and public relations and advertising companies. Includes a major project or case study related to management practices. Students are selected for management positions in media organizations including KTRU-FM, Publication Production, TigerTV, and Multimedia Production.  
Prerequisites: junior status, recommendation of departmental faculty, and approval of instructor.

**COMM-3321 Arts Criticism**

Integration and understanding of the role of the artist, the audience, and the critic in relation to the arts.

**COMM-3322 International Communication**

Studies communication as an essential component of international organizations and relations. Surveys major topics in international communication and international decision-making, comparative media systems and national philosophies, and Third World issues and policy development. (Also listed as HCOM 3374.)  
Prerequisite: COMM 1301 or consent of instructor.

**COMM-3325 Special Topics in Communication Media**

Study and analysis of contemporary communication media topics offered at the initiative of the faculty. Past topics have addressed issues of representation in media, media effects, political communication, media criticism, and the role of various media in society. May be repeated when topics vary.  
Prerequisite: COMM 1301 or consent of instructor.

**COMM-3326 History of Mass Media**

A survey and analysis of American mass media from the rudimentary colonial newspaper through the 20th century development of radio, television and film. Media contributions to the flow of information, opinion and culture will be studied as a counterpoint to changes in social and political processes.  
Prerequisite: COMM 1301.

**COMM-3328 Media, Culture, and Technology**

Examines the economic, historical and social context of evolving communication technologies and how media help to structure, maintain, and alter power relations in contemporary society. Special attention is given to the creation and maintenance of subcultural groups by and through the media.  
Prerequisites: COMM 1301 and junior status.

**COMM-3340 Media Writing**

Understanding and using the written word by conceptualizing, gathering information, researching, writing, and editing a variety of material. Classes may stress one or more genres, formats, or themes. Past topics have covered magazine writing, news writing, broadcast writing, public relations writing, public affairs reporting, Internet journalism, and cultural affairs reporting. May be repeated when topics vary.  
Prerequisite: COMM 2302 or consent of instructor.

**COMM-3341 Audio Communication**

Understanding and using audio through conceptualizing, gathering information, writing, editing, and producing aural communication. Classes may stress one or more genres, formats, or themes. Past topics have addressed community radio and alternative communication. May be repeated when topics vary.  
Prerequisite: COMM 2302 or consent of instructor.
COMM-3342 Visual Communication
Understanding and using visual communication techniques through conceptualizing, creating, and editing visual media productions. Classes may stress one or more genres, formats, or themes. Past topics have addressed narrative fictional video production, documentary, and theory and practice of montage. May be repeated when topics vary.
Prerequisite: COMM 2302 or consent of instructor.

COMM-3343 Print Communication
Understanding and using print editorial techniques and graphics through conceptualizing, gathering information, writing, editing, and producing print publications. Classes may stress one or more genres, formats, or themes. Past topics have covered magazine production/publishing, and newsletter production. May be repeated when topics vary.
Prerequisite: COMM 2302 or consent of instructor.

COMM-3344 Interactive Multimedia Communication
Understanding and using interactive multimedia techniques through conceptualizing, gathering information, writing, editing, and producing content for the Internet and the World Wide Web. Classes may stress one or more genres, formats, or themes. Past topics have addressed web design, virtual world promotions, game design, and ethnography of massively multiplayer online games. May be repeated when topics vary.
Prerequisite: COMM 2302 or consent of instructor.

COMM-3345 Media Communication Workshop
Media communication production and procedures, to be offered at initiative of the faculty and announced during preregistration. Course may be repeated with department approval. 1-6 semester hours.
Prerequisite: COMM 2302 or consent of instructor.

COMM-3354 Quantitative Research Methods in Speech Communication
The goal of this course is to help you understand how communication is studied using quantitative (numerical) principles and techniques. Such understanding will enable you to be a more knowledgeable and critical consumer and producer of quantitative research findings. (Also listed as HCOM 3354.)

COMM-3357 Sport Media
This course will critically examine the relationship between sport media and issues such as race, gender, sexuality, nationalism, capitalism/consumerism, violence, and civic life. Ethical implications and the impact of social media will also be explored. (Also listed as SPMT 3317.)

COMM-3360 Principles of Public Relations
Covers both principles and techniques of public relations from the management and social science viewpoint of managing ideas, publics, corporate or personal images.
Prerequisite: COMM 1301.

COMM-3361 Principles of Advertising
Advertising fundamentals in relationship to modern marketing activities, audience analysis, and the planning of advertising campaigns.
Prerequisite: COMM 1301.

COMM-3362 Media Law and Policy
Study of issues in the contemporary media policy environment with special focus on "freedom of the press" in relation to emerging electronic communication technologies. The course adopts a broad historical and cultural approach to the role of the First Amendment in a democratic system (including defamation and libel), and emphasizes the study of the legal relationships that govern the interaction of individuals, groups, and institutions.

COMM-3363 Media Management
A survey of major management concerns in the print and electronic media. Specific areas to be covered include personnel, organization, programming and content policies, regulation, finance, sales, audiences, and administrative problems in newspapers, magazines, radio, television, cable, and Internet.
Prerequisite: COMM 1301.

COMM-3364 Ethics and the Mass Media
A study of the ethical decisions, going beyond mere legal restrictions, that media practitioners must face in the range of material they present to the public. Survey of literature and case studies.

Prerequisite: COMM 1301.

COMM-3-98 Honors Readings
Independent study in selected areas in preparation for Honors Thesis. May be taken for up to three hours of credit.
Prerequisite: admission to the departmental Honors Program.

COMM-4350 Advanced Producing
Special production activities in selected media areas. Past topics have covered the convergence of media distribution systems and print and video literacy. May be repeated when topics vary.
Prerequisites: any COMM 11-- course and any COMM 334- course.

COMM-4-90 Directed Studies in Communication
Independent study that allows advanced students to work on specified projects under the supervision of departmental faculty. 1-6 semester hours.
Prerequisites: advanced students who demonstrate competence in specific areas of study in communications; upper-class standing and permission of instructor.

COMM-4395 Communication Capstone Seminar
Students will select one of three options to demonstrate their understanding of communication theories and practices: (1) A traditional research paper; (2) A professional paper that investigates a communication issue or serves a client; (3) A significant creative project. In all options, a major component of the capstone course is research and analysis.
Prerequisites: senior or rising senior standing and COMM 1301, 2302, and 2303.

COMM-4398, 4399 Honors Thesis
Individual research and scholarly investigation under faculty supervision leading to the preparation of an honors thesis. To be taken only by senior honors students in both terms of their senior year. Includes participation in senior colloquium where students present reports on their thesis work.

Faculty
WILLIAM G. CHRIST, Ph.D., Professor
AARON DELWICHE, Ph.D., Associate Professor
JENNIFER J. HENDERSON, Ph.D., Associate Professor; Chair
ROBERT HUESCA, Ph.D., Professor
SAMMYE L. JOHNSON, M.S.J., Carlos Augustus de Lozano Professor of Journalism
PATRICK KEATING, Ph.D., Assistant Professor
Courses of Study 2011 - 2012

Communication Management

Overview

The minor in Communication Management is an interdisciplinary program that studies both advertising and public relations as part of the management of communication processes by combining mass media, human communication, marketing, and business principles. Students interested in declaring a Communication Management minor should contact Professor Henderson; each student will then be assigned to a minor adviser.

Requirements

THE MINOR

The requirements for a minor in Communication Management are:

24 semester hours consisting of 15 hours in required courses and 3 hours in each elective area.

Required Courses: 15 hours

- COMM 3360 (Principles of Public Relations)
- HCOM 3334 (Persuasion)
- HCOM 3360 (Small Group Communication)
- MGMT 2301 (Management of Organizations)
- MKTG 2301 (Principles of Marketing)

Communication Elective: 3 hours

- COMM 3362 (Media Law and Policy)
- COMM 3363 (Media Management)
- COMM 3364 (Ethics and the Mass Media)

Business Elective: 3 hours

- MGMT 3371 (Human Resources Management)
- MGMT 3372 (Organizational Behavior)
- MKTG 3381 (Consumer Behavior)
- MKTG 3382 (Promotion Management)
- MKTG 4381 (Marketing Management)

Human Communication Elective: 3 hours

- BUSN 3311 (Organizational Communication) (also listed as HCOM 3362)
- HCOM 1333 (Public Speaking)
- HCOM 3362 (Organizational Communication) (also listed as BUSN 3311)
- *HCOM 4397 (Human Communication Internship)

* As approved by minor adviser.

Courses

See the "Requirements" tab.

Faculty

J. CHARLENE DAVIS, Ph.D., Associate Professor, Business Administration; Chair
Courses of Study 2011 - 2012

Comparative Literature

Overview

Comparative Literature is an interdisciplinary program designed for students who want to pursue the study of literature unrestricted by national boundaries and conventional demarcations of culture. Comparative Literature recognizes that all literary texts exist within the framework of world cultures and emphasizes the importance of bringing a multicultural perspective to the understanding of literary traditions. It includes reading literature in the original language as well as in translation.

Completion of this program will be indicated on the student’s transcript with the notation “Minor in Comparative Literature.”

Students interested in a Comparative Literature minor should contact the Chair of the Committee, who will assign a faculty adviser to the student.

Students considering going on to graduate work in comparative literature are strongly encouraged to start studying one or more foreign languages (classical and/or modern) as soon as possible and to continue throughout their undergraduate career.

Requirements

THE MINOR

The requirements for a minor in Comparative Literature are as follows:

I. Introduction to Comparative Literature (CMLT 1300).

II. Two courses from each of the three categories below (A, B, and C), for a total of six courses. (CMLT 1300 counts as one of the two courses from category C.)

III. At least three of the total shall be upper division courses.

IV. No more than two of the total may overlap with the student's primary major.

These courses shall be chosen as follows:

A. Two courses in the literature of a language other than English. All materials in these courses must be in the original language. These courses include the following:

   In the Department of Classical Studies:
   - GREK 2302 (Readings in Classical Greek Literature)
   - GREK 2303 (Readings in the New Testament)
   - GREK 3301 (Homer and the Greek Epic)
   - GREK 3302 (Attic Prose)
   - GREK 3303 (Greek Drama)
   - GREK 3304 (Greek Historians)
   - LATN 3302 (Virgil and Latin Epic)
   - LATN 3303 (Latin Prose to 43 B.C.)
   - LATN 3304 (Lyric and Elegiac Poets)
   - LATN 3305 (Latin Prose from 43 B.C.)
   - LATN 3306 (Comedy and Satire)

   In the Department of Modern Languages and Literatures:
   - CHIN 3312 (Chinese Cinema: A Historical and Cultural Perspective)
   - CHIN 4321 (Readings in Modern Chinese Literature)
   - CHIN 4351 (Classical Chinese)
   - FREN 3305 (Introduction to French Literature I)
   - FREN 3306 (Introduction to French Literature II)
   - FREN 4301 (Medieval French Literature)
   - FREN 4302 (Topics in French Literature of the Sixteenth Century)
   - FREN 4303 (Topics in French Literature of the Seventeenth Century)
Trinity University

FREN 4304 (Topics in French Literature of the Eighteenth Century)
FREN 4305 (Topics in French Literature of the Nineteenth Century)
FREN 4306 (Topics in French Literature of the Twentieth Century)
FREN 4307 (French Cinema)
FREN 4310 (Senior Seminar in Literature)

GERM 3305 (Introduction to German Literature I)
GERM 3306 (Introduction to German Literature II)
GERM 4301 (Genre Studies in German Literature)
GERM 4310 (Seminar in German Literature)

RUSS 3305 (Introduction to Russian Literature I)
RUSS 3306 (Introduction to Russian Literature II)
RUSS 4301 (Genre Studies in Russian Literature)
RUSS 4310 (Seminar in Russian Literature)

SPAN 3321 (Spanish Cinema)
SPAN 3322 (Spanish American Cinema)
SPAN 3331 (Introduction to Spanish Literature)
SPAN 3332 (Introduction to Spanish American Literature)
SPAN 4331 (Medieval Spanish Literature)
SPAN 4332 (Spanish Golden Age Literature)
SPAN 4333 (Don Quijote)
SPAN 4334 (Nineteenth-Century Spanish Literature)
SPAN 4335 (The Generation of '86)
SPAN 4336 (Twentieth-Century Spanish Literature)
SPAN 4338 (Spanish Women Writers)
SPAN 4341 (Literature of Colonial Spanish America)
SPAN 4342 (Spanish American Literature of the Nineteenth Century)
SPAN 4343 (Twentieth-Century Spanish American Poetry)
SPAN 4344 (Twentieth-Century Spanish American Novel)
SPAN 4345 (Twentieth-Century Spanish American Short Story)
SPAN 4346 (Twentieth-Century Spanish American Drama)
SPAN 4347 (National and Regional Literatures of Spanish America)
SPAN 4348 (Spanish American Women Writers)
SPAN 4349 (Sexualities in Literature and Film)
SPAN 4361 (Literature of Social Protest in Spanish America)

B. Two literature courses in a language other than that chosen for A.

These may include courses listed above for A, literature and film courses in translation offered in the Department of Classical Studies and in the Department of Modern Languages and Literatures, courses in American or British literature offered in the Department of English, the course in American drama offered in the Department of Human Communication and Theatre, and the FILM 1301 course (cross-listed as ARTH 1301, COMM 1302, ENGL 1301, and ML&L 1301). These may also include the following courses offered in the Department of Religion: RELI 3351 Narratives in the Hebrew Bible, and RELI 3352 Poetry in the Hebrew Bible.

C. CMLT 1300, and one additional course to be chosen from the following list of courses with strong comparative components.

ARTH 2301 (International Cinema) (also listed as COMM 2301, ENGL 2300, FILM 2301, and ML&L 2301)
CLAS 1305 (Classical Mythology)
CLAS 1307 (Gender and Identity in the Ancient World)
CLAS 3302 (Greek and Roman Epic)
CLAS 3303 (Greek and Roman Drama)
CLAS 3304 (The Ancient Romance and Novel)
CLAS 3305 (Antiquity and Modernity)
COMM 2301 (International Cinema) (also listed as ARTH 2301, ENGL 2300, FILM 2301, and ML&L 2301)
CMLT 1300 (Introduction to Comparative Literature) (REQUIRED)
ENGL 2300 (International Cinema) (also listed as ARTH 2301, COMM 2301, FILM 2301, and ML&L 2301)
ENGL 2305 (World Literature)
ENGL 2306 (Medieval Imagination)
ENGL 3322 (Greek and Roman Drama) (also listed as CLAS 3303 and THTR 3335)
ENGL 3329 (Jewish Literature)
ENGL 3337 (Literary Theory)
ENGL 3338 (Ideology)
ENGL 3359 (Medieval Literature)
ENGL 3375 (Postmodern Literature)
ENGL 3385 (The Continental Novel)
ENGL 4323 (Studies in American Literature: The Circum-Atlantic World)
ENGL 4323 (Studies in American Literature: The Haitian Revolution)
ENGL 4327 (Literature of the Holocaust)
FILM 2301 (International Cinema) (also listed as ARTH 2301, COMM 2301, ENGL 2300, and ML&L 2301)
ML&L 2301 (International Cinema) (also listed as ARTH 2301, COMM 2301, ENGL 2300, and FILM 2301)
ML&L 3320 (German Literature in Translation: Fairy Tales)
ML&L 3320 (German Literature in Translation: Faust - Early Superman)
PHIL 3325 (Existentialism)
PHIL 3336 (Philosophy of Literature)
PLSI 1332 (Film, Literature, and Politics of the Third World)
RELI 3346 (Islamic Literatures)
THTR 3335 (Greek and Roman Drama)
THTR 3336 (Modern Drama)
THTR 3337 (Contemporary Drama)

Courses

CMLT-1300 Introduction to Comparative Literature

Examines with a cross-cultural perspective texts from around the world. The course provides an introduction to the interdisciplinary field of comparative literatures. (Also listed as ENGL 1305.)
CMLT-2301 World Literature and the Environment

This course examines literary texts from around the world with an emphasis on environmental issues and a global perspective. The emphasis on literary and cultural perspectives develops similar themes to those explored through a scientific lens in its partner course, BIOL 2305. Corequisite: BIOL 2305.

CMLT-2350 Science Fiction and the Environment

An introduction to science fiction with an emphasis on the literary exploration of environmental issues.

CMLT-3309 Epic Journeys

A comparative study of epic traditions in literature and film. In the first half of the course, we focus on traditional epics, such as Gilgamesh, Homer's Odyssey, the Intuit tradition of the Fast Runner, and the Korean song tradition of Chunhyang, focusing especially on themes such as the heroic journey, exile and homecoming. In the second half of the course, we examine the reception of traditional epic in the modern Western literary tradition and films. (Also listed as CLAS 3309.)

Prerequisite: sophomore standing or consent of instructor.

CMLT-3-90 Reading and Conference

Individual work under faculty supervision not covered by other courses. May be repeated up to six hours.

Prerequisites: CMLT 1300 and approval of program chair.

Faculty

ERWIN F. COOK, Ph.D., T. Frank Murchison Distinguished Professor of Classical Studies

STEPHEN L. FIELD, Ph.D., J. K. and Ingrid Lee Endowed Professor of Chinese Language and Literature, Modern Languages and Literatures

THOMAS JENKINS, Ph.D., Associate Professor, Classical Studies

RUQAYYA Y. KHAN, Ph.D., Associate Professor, Religion

JEFFREY RUFO, Ph.D., Assistant Professor, English

TIMOTHY M. O'SULLIVAN, Ph.D., Associate Professor, Classical Studies

MICHAEL SOTO, Ph.D., Associate Professor, English

HEATHER I. SULLIVAN, Ph.D., Associate Professor, Modern Languages and Literatures; Chair

RITA E. URQUIJO-RUIZ, Ph.D., Associate Professor, Modern Languages and Literatures

MICHAEL T. WARD, Ph.D., Associate Professor, Modern Languages and Literatures
Courses of Study 2011 - 2012

Computer Science

Requirements

THE MAJOR

The requirements for the degree of Bachelor of Science with a major in Computer Science are as follows:

I. The common curriculum

II. Departmental requirements: 49 semester hours including:

A. Core Principles: CSCI 1120, 1320, 1321, 1323, 2320, 2321, 2322, 3320, 3321, 3322.

B. Colloquium: Four semesters of CSCI 2094.

C. Curricular Groups: At least three hours from each of the following groups:

   Applications Group: CSCI 3311, 3342, 3343, 3352, 3353, 3366, 3-95.
   Systems Group: CSCI 3323, 3-96.
   Design Group: CSCI 3312, 3345, 3362, 3-97. Note: While not required, CSCI 3321 is recommended for courses in the Design Group.

D. Capstone: Advanced Software Engineering (CSCI 3384), Senior Software Project I & II (CSCI 3384, 4385, and 4386); OR Senior Thesis (CSCI 3398, 4398, and 4399).

E. Electives: Three additional upper division computer science hours sufficient to total at least 49 semester hours.

III. Mathematics requirements:

   Two courses from the following: MATH 1307, 1308, or 1311 or higher; CSCI 2324, 3351, or 3361; PHIL 3340.

IV. Electives sufficient to total 124 semester hours.

COMPUTING AS A SECOND MAJOR

The requirements for Computing as a Second Major are as follows:

I. The common curriculum

II. Departmental requirements: 31 hours of computer science including:

   A. Required courses: CSCI 1120, 1320, 1321, 1323, 2320.

   B. 18 additional hours of computer science including 15 upper-division hours.

III. Additional requirements are one of the following:

   Six hours selected from MATH 1307, 1308, 1311, 1312, 1320, PHIL 2340, PSYC 2401, and BUSN 2301. Note: At most one of the following courses may be counted for this requirement: MATH 1320, PSYC 2401, and BUSN 2301.

IV. Completion of a first major from another department.

V. Electives sufficient to total 124 semester hours.

MINOR IN COMPUTER SCIENCE

The department offers a minor in Computer Science. This minor is designed to provide students with entry-level skills in computing, as well as a substantial computing background for graduate studies in fields where computers have become primary research tools. This minor consists of at least 21 hours of Computer Science and at least 6 hours of Mathematics. The Computer Science requirements are CSCI 1120, 1320, 1321, 1323, 2320, plus at least three additional upper division Computer Science electives. The Mathematics requirements are the same as for the Computer Science B.S. degree.

MINOR IN MANAGEMENT INFORMATION SYSTEMS

For the business-oriented student, the department offers a minor in Management Information Systems. This minor is designed to provide students with some knowledge of business principles and the necessary background to permit them, through the use of computer operations, to efficiently manage and transmit information.

The requirements are as follows:
I. Those courses required for the B.A., B.S., or minor in Business Administration.

II. CSCI 1320, 1321, 2320, plus three upper division Computer Science courses.

SENIOR SOFTWARE PROJECT

Requirements:
1. Successful completion of CSCI 3384 in the spring semester of the junior year.
2. Successful completion of CSCI 4385 in the fall semester of the senior year.
3. Successful completion of CSCI 4386 in the spring semester of the senior year.

SENIOR THESIS

Requirements:
1. Overall grade point average of 3.0 or better at the time the thesis option is selected.
2. Grade point average in computer science of 3.0 or better at the time the thesis option is selected.
3. Successful completion of CSCI 3398 in the spring semester of the junior year.
4. Successful completion of CSCI 4398 in the fall semester of the senior year.
5. Successful completion of CSCI 4399 in the spring semester of the senior year.
6. Selection of a faculty committee consisting of a thesis chair chosen from the computer science faculty and two additional faculty members during the spring semester of the junior year.
7. A public formal presentation and defense of the thesis during the spring semester of the senior year.
8. A bound copy of the accepted thesis to be placed in the library. Binding costs will be paid by the student.

HONORS IN COMPUTER SCIENCE

To be eligible for the distinction of graduation with Honors in Computer Science the requirements are:
1. Selection of the senior thesis capstone option described above.
2. Grade point average of at least 3.33 or better in all courses prior to the semester of graduation.
3. Grade point average of 3.33 or better in all computer science courses prior to the semester of graduation.
4. A written request for honors consideration, submitted to the department chair in the semester prior to the semester of graduation.

The decision of whether or not to confer the honors designation will be made by the departmental faculty and will be determined by departmental vote. The criteria include quality of the written thesis, quality of the oral presentation, and contribution to the field.

When a thesis receives the honors designation, this designation is so noted on the student's transcript and announced at graduation.

Students who successfully complete CSCI 4399 with a grade of C or better, but fail to achieve honors status or fail to meet the thesis deadline, will satisfy the capstone requirement provided they complete the thesis publication and pay the binding fee so the thesis may be placed in the library.

Courses

CSCI-1120 Low-Level Computing
Seminar on concepts of computing that are close to the machine level. The course teaches skills such as command line processing and programming in a language that exposes more of the underlying machine. Internal data representations will also be explored.
Prerequisite: CSCI 1311 or 1320, or consent of instructor

CSCI-1300 Essential Information Technology
Introduction to computers and technology in an academic environment, including critical analysis regarding the nature of information itself. Computing hardware, software, files, and formats. Text processing and quantitative analysis. Information management. Graphics, image processing, and visualization. Communication, networking, and the internet. Information ethics, privacy, and legal use of software and data. Solution of problems in these areas with emphasis on information literacy. No credit after completion of CSCI 1321.

CSCI-1302 Introduction to Computers: Business Applications
An introduction to computers and programming with special emphasis on applications for nonscientists, including business and data processing. Introduction to programming in BASIC. Applications packages including spreadsheet, database, and word processing. Computer solution of several business and data processing applications and interpretation of results. No credit after completion of CSCI 1304. Does not count toward the 42 hours required for a computer science major.

CSCI-1304 Computers and Society
An examination of the impact of computer technology on issues of society and culture. The course will contain several components: an introduction to computing (software and hardware concepts); an introduction to problem-solving using one or more high-level languages/software applications to include information retrieval and processing (numeric, text, and graphics); computer communications; and discussions of the uses and ethical issues surrounding computers in our society. No credit after completion of CSCI 1300, 1302, 1320, or 1321.

CSCI-1311 Introduction to Programming Logic
Introduction to the basics of computer programming and logic as applied to problem solving for non-science majors. Use of a highly geographical environment will stress creativity in the application of the scientific method of problem solving. The course will cover the basic concepts of object-oriented programming including objects, methods, sequences of instructions, conditionals, loops, and simple collections.

CSCI-1320 Principles of Programming I

CSCI-1321 Principles of Programming II
Algorithm development, program logic, program design strategies, program implementation strategies. Program correctness and program verification, algorithm analysis, and computational complexity. User defined structures, data types, specification requirements, sequential and direct access files, sorting, searching, and computer organization. Abstract data types including stacks, queues, and linked lists. Computer programming solutions to several laboratory exercises. May be taken concurrently with CSCI 1323, 2322.
Prerequisite: CSCI 1320 or consent of instructor.

CSCI-1323 Discrete Structures
Elements of discrete mathematics of particular importance in computer science: propositional and predicate logic; proof techniques, including mathematical induction; recursive functions, definitions, and algorithms; proofs of program correctness; algebra of sets; relations and functions; and elements of the theory of directed and undirected graphs. Application of these structures to various areas of computer science.
Prerequisite: CSCI 1311, 1320, or consent of instructor.

CSCI-2094 Computer Science Seminar
Departmental Seminar on professional issues, ethics, research, and other topics of relevance to majors. Grade is based on attendance.

CSCI-2320 Principles of Data Abstraction
Abstract data types and their implementation in an object-oriented environment. Axiomatic systems describing the classical computer science data structures: stacks, queues, lists, trees, graphs, and the like. Analysis of the computational complexity of alternative implementation strategies in the context of the typical algorithmic applications.
Prerequisites: CSCI 1321 and 1120.

CSCI-2321 Principles of Computer Design
A study of computer organization and design including emphasis on logical design, the role of performance, the structure of instructions, computer arithmetic, processor control, and methods of performance enhancement. Some attention will also be given to assembly programming.
Prerequisites: CSCI 1321 and either CSCI 1320 or CSCI 1120.

CSCI-2322 Principles of Functional Languages

CSCI-2323 Scientific Computing
This course will cover both numerical and text processing methods with problems chosen from the sciences and mathematics. The course will also focus on the general idea of how computational science has expanded the realm of what is possible in the sciences. The course builds on basic programming knowledge to give students understanding and skills as to how computers are used in the sciences.
Prerequisites: CSCI 1320, MATH 1311 or 1307.

CSCI-2324 Numerical Calculus
Introduction to the numerical algorithms fundamental to scientific computer work. Elementary error analysis, interpolation, quadrature, linear systems of equations, and introduction to the numerical solution of ordinary differential equations. (Also listed as MATH 2324.)
Prerequisites: CSCI 1120 or 1320, MATH 1311.

CSCI-3311 Information Assurance and Security
A contemporary introduction to the broad area of security in computing systems, exploring issues that abound when attempting to secure information in an interconnected society. An information-based examination of risk modeling, assessment, and management; ethics; policies and behaviors; cryptography; code security; data security; operating system security; and network security. Approaches to assure information confidentiality, integrity, and availability (CIA).

Prerequisite: CSCI 2320.

CSCI-3312 Introduction to Game Development

An introduction to the various aspects of computer game creation process including coding, game play, narrative development, and artwork. Students will explore the tools and methods of game design and will also work in groups to design and implement a two-dimensional, non-networked game.

Prerequisite: CSCI 2320. CSCI 3321 is recommended.

CSCI-3320 Principles of Theoretical Computer Science

Core topics from finite automata, languages and the theory of computation. The Chomsky hierarchy, abstract machines and their associated grammars. Models of computation (e.g., Turing machines), Church's thesis, unsolvability, and undecidability. Computational complexity, intractability, and NP-completeness.

Prerequisites: CSCI 2320, 1323, and junior standing.

CSCI-3321 Principles of Software Engineering

Issues involved in developing large-scale software systems. Models for the software lifecycle; techniques and tools of analysis, design, programming, testing, debugging, and maintenance. May include formal methods, CASE, expert systems, case studies.

Prerequisites: CSCI 2320, 1323, and junior standing.

CSCI-3322 Advanced Algorithms

Exploration of standard algorithm construction methods for solving varied problems including a comparison of the different efficiencies of these algorithms when implemented using different data structures. Methods will include branch and bound, backtracking, memorization, greedy algorithms, and dynamic programming. Heuristic-based methods to find non-optimal solutions are also explored, especially for intractable problems.

Prerequisite: CSCI 2320.

CSCI-3323 Principles of Operating Systems

Introduction to operating systems. Role and purpose of operating systems. History of operating systems. Processes and process management, including a discussion of concurrency and related issues. Memory management. Input/output and device management. File systems. Operating system security.

Prerequisite: CSCI 2321.

CSCI-3342 Computer Networks

Local area networks, high-speed networks and bridges. Wide area networks and internetworking. Network protocols including OSI protocols. Network security, reliability and performance. Laboratory experience with one or more network protocols.

Prerequisite: CSCI 2320.

CSCI-3343 Database Systems

The goals of DBMS including data independence, relationships, logical and physical organizations, schema and subschema. Entity relationship diagrams. Hierarchical, network, and relations models. Data definition and data manipulation languages. Query languages, relational algebra, and relational calculus. Data normalization techniques, data security integrity, and recovery. Case studies of several existing systems.

Prerequisite: CSCI 2320.

CSCI-3344 Artificial Intelligence

The purpose of this course is to update the student on state-of-the-art artificial intelligence concepts, such as heuristic programming, state-space search techniques, and/or graphs for problem solving, game playing techniques, theorem proving procedures for propositions and first-order logic, knowledge representation, and examples of knowledge-based systems.

Prerequisites: CSCI 1323, 2320.

CSCI-3346 Web Application Design

An introduction to the development of Web applications and cloud computing. Basics of information sharing on the Web and an introduction to a standard Web application framework. Students will work in groups to analyze, design, and implement a Web application.
Prerequisite: CSCI 2320; CSCI 3321 is recommended.

CSCI-3351 Numerical Analysis
Methods of solution of algebraic and transcendental equations, simultaneous linear algebraic equations, numerical integration and differentiation, initial and boundary value problems or ordinary differential equations. (Also listed as MATH 3351.)
Prerequisites: CSCI 1321, MATH 3336.

CSCI-3352 Simulation Theory
Introduction to simulation, discrete simulation models, queuing theory, and stochastic processes. Survey of simulation languages. Simulation methodology including generation of random numbers, design of simulation experiments, and validation of simulation models.
Prerequisites: CSCI 1320 or 1120, and knowledge of statistics.

CSCI-3353 Graphics
Survey of display devices, display data structures, graphics input, 2D transformations, windowing, clipping, viewing, 3D transformations, perspective, depth, hidden line removal. Graphics programming techniques and several laboratory problems using available graphics devices.
Prerequisites: MATH 1311, CSCI 2320.

CSCI-3361 Analysis of Algorithms
Complexity of algorithms, time and space requirements, and trade-offs. Searching and sorting, mathematical algorithms, graph and combinational algorithms. Divide and conquer, branch and bound, dynamic programming, exhaustive search. Limitations, intractability and NP-completeness, approximation algorithms.
Prerequisites: CSCI 1321, 1323.

CSCI-3362 Effective Programming Techniques
Effective strategies for programming in contemporary languages. Including material on design patterns and other techniques that improve abstraction and reusability of code. There is a significant group project that requires students to apply material learned in the course.
Prerequisite: CSCI 2320; CSCI 3321 is recommended.

CSCI-3366 Parallel and Distributed Programming
An introduction to parallel and distributed programming with particular emphasis on algorithm development. Comparison between sequential and parallel algorithm development. Survey of hardware and software for parallel and distributed computing. Comparison of different architectures and programming models. Design, analysis, and development of parallel algorithms. Students will be expected to implement several projects in one or more suitable parallel programming environments.
Prerequisite: CSCI 2321.

CSCI-3368 Principles of Programming Languages
An introduction to the syntax and semantics of programming languages. This will include a study of data structures and control structures, proof of programs, a comparison of functional and imperative programming languages, parameter passing, storage allocation schemes, and concurrent language features.
Prerequisite: CSCI 2320.

CSCI-3384 Advanced Software Engineering
In-depth experience with integrated cyclic design/development models with emphasis on testing and validation methods. Extensive application of proper testing and evaluation techniques will be applied to the previous year's senior software project.
Prerequisite: CSCI 3321.

CSCI-3-90 Directed Study
Credit will vary depending on work done.
Prerequisites: CSCI 1323, 2320, and junior standing.

CSCI-3-94 Seminar
Topics will vary depending on student interest. May be taken for a maximum of six (6) semester hours credit.
Prerequisites: CSCI 1323, 2320, and junior standing.

CSCI-3-95 Special Topics in Applications
Topics will vary depending on student and faculty interest. May be taken for a maximum of six (6) semester hours of credit.
Prerequisites: CSCI 1321 and 1323, or consent of instructor.

CSCI-3-96 Special Topics in Systems
Topics will vary depending on student and faculty interest. May be taken for a maximum of six (6) semester hours of credit.
Prerequisites: CSCI 1321 and 1323, or consent of instructor.

CSCI-3-97 Special Topics in Design
Topics will vary depending on student and faculty interest. May be taken for a maximum of six (6) semester hours of credit.
Prerequisites: CSCI 1321 and 1323, or consent of instructor.

CSCI-3398 Thesis Reading
Independent study in selected areas in preparation for Thesis. Spring.
Prerequisites: CSCI 1323 and CSCI 2320, junior standing, and consent of instructor.

CSCI-4312 Advanced Game Development
A deeper exploration of the concepts presented in CSCI 3312 that provides a setting for students to work in groups on the design and implementation of a three-dimensional or networked game. Includes discussion of 3-D graphics options as well as networking options. Groups will be subdivided into coding, game play, and art subgroups and will work in a structure intended to model professional game studios.
Prerequisite: CSCI 3312.

CSCI-4353 Advanced Graphics
Geometric modeling, algorithms for hidden surface removal, shading models, rendering, texture mapping, reflectance mapping, ray tracing, and radiosity. Introduction to animation. Several laboratory programming problems using available graphics devices.
Prerequisite: CSCI 3353.

CSCI-4365 Advanced Theoretical Computer Science
Advanced topics in theory. Closure properties, ambiguity, contact-sensitive and recursively enumerable languages, alternate models of computation, non-determinism, decidability, Ackermann's function, computational complexity speed-up.
Prerequisite: CSCI 3320.

CSCI-4385 Senior Software Project I
The analysis and design of an actual large-scale software system. Application of the analysis and design tools within the software life cycle presented in CSCI 3321 (Principles of Software Engineering). Students work in teams under direct supervision of the faculty.
Prerequisite: 21 hours of Computer Science, including CSCI 3384.

CSCI-4386 Senior Software Project II
The implementation, testing, and maintenance of the large-scale software systems designed in CSCI 4385. Students working in teams under direct supervision of faculty implement and demonstrate the deliverable software package.
Prerequisite: CSCI 4385.

CSCI-4398 Thesis I
Individual research and scholarly investigation under faculty supervision leading to the preparation of a senior thesis. To be taken only by students committed to the preparation of a thesis and those who wish to earn the Honors in Computer Science designation. Serves as a part of the departmental capstone requirement. Fall.
Prerequisite: CSCI 3398 and consent of instructor.
CSCI-4399 Thesis II

Individual research and scholarly investigation under faculty supervision leading to the preparation of a senior thesis. Must be taken by students who desire honors in computer science. Serves as a part of the departmental capstone requirement. Thesis presentation to departmental faculty and students and a separate thesis defense are requirements for the completion of this course. Spring.

Prerequisite: CSCI 4398 and consent of instructor.

Faculty

MAURICE L. EGGEN, Ph.D., Professor

THOMAS E. HICKS, Ed.D., Associate Professor

JOHN E. HOWLAND, Ph.D., Professor

MARK LEWIS, Ph.D., Associate Professor

BERNAL. MASSINGILL, Ph.D., Associate Professor

J. PAUL MYERS, JR., Ph.D., Professor; Chair

GERALD N. PITTS, Ph.D., Caruth Distinguished Professor of Computer Science

YU ZHANG, Ph.D., Associate Professor
East Asian Studies

Overview

East Asian Studies at Trinity (EAST) is an interdisciplinary undergraduate degree program that combines the intensive study of East Asian languages and cultures with the study of the social sciences and business in an East Asian context. For each student, the study of the language will be fully integrated with the study of other disciplines through each year of the college career, insuring that the graduate will not only be proficient in the language, but that he or she will have achieved an advanced level of understanding across the curriculum. The number of hours required for completion of the program may not be fewer than 42 for the major and 24 for the minor. The student who completes the major in East Asian studies will receive a Bachelor of Science degree in Chinese Studies.

Requirements

THE MAJOR

The requirements for the degree of Bachelor Science with a major in Chinese Studies are as follows:

I. The Common Curriculum

II. A core curriculum in East Asian culture (12 semester hours; at least one course from each of the following categories):

A. Art and Civilization

   ARTH 1310 (Introduction to Asian Art: China)
   CHIN 2311 (Chinese Civilization)
   CHIN 3312 (Chinese Cinema: A Historical and Cultural Perspective)
   CHIN 3313 (Cities of Strangers: Trans-Cultural Chinese Cinema)

B. History

   HIST 1320 (History of China)
   HIST 1324 (Modern East Asia)

C. Philosophy and Religion

   PHIL 1302 (Introduction to Asian Philosophy)
   RELI 1330 (Asian Religions)

III. The concentration in Chinese studies:

   A. Completion of 21 semester hours of upper division Chinese language and literature courses taught in Chinese.

      CHIN 3301 (Third-Year Chinese I)
      CHIN 3302 (Third-Year Chinese II)
      CHIN 4130 (Global Business Culture)
      CHIN 4301 (Fourth-Year Chinese I)
      CHIN 4302 (Fourth-Year Chinese II)
      CHIN 4310 (Advanced Conversation and Composition)
      CHIN 4321 (Topics in Modern Chinese Literature)
      CHIN 4322 (Readings in Contemporary Chinese Cinema)
      CHIN 4351 (Classical Chinese)
      CHIN 4360 (Senior Seminar)
      CHIN 4390 (Reading and Conference)
      CHIN 4391 (Selected Topics)
      or the equivalent study abroad coursework in Chinese.

   B. Completion of 9 semester hours of upper division electives. At least one course must be taken from each of the following categories. Courses not focused solely on China must contain at least one-third of their content on the subject of China.

      1. History, Political Science, and Religion

         CHIN 3320 (The Rise of Modern China) (also listed as HIST 3320)
         CHIN 3333 (Chinese Religions) (also listed as RELI 3333)
         HIST 3320 (The Rise of Modern China) (also listed as CHIN 3320)
         HIST 3324 (History of Korea)
         HIST 4420 (Seminar in Asian History)
         PLSI 3339 (Special Topics in Comparative Politics) (with adviser approval)
         PLSI 3341 (East Asian Security)
         PLSI 3349 (Special Topics in International Politics) (with adviser approval)
PLSI 3369 (Special Topics in Political Theory) (with adviser approval)
PLSI 3372 (Research Methods in Political Science) (with adviser approval)
RELI 3313 (Religion and Science in Asia)
RELI 3322 (The Buddhist Tradition)
RELI 3333 (Chinese Religions) (also listed as CHIN 3333)
RELI 3391 (Special Topics in Religion) (with adviser approval)

2. Business and Economics

BUSN 3330 (Global Business Culture) (also listed as CHIN 3330)
BUSN 3347 (International Trade) (with adviser approval)
BUSN 3363 (International Business Research) (also listed as CHIN 3363)
BUSN 3396 (Internship in International Business) (with adviser approval)
BUSN 4130 (Quanqu Shangwu Wenhua-Zhong-Mei Jiaodian) (Global Business Culture)
BUSN 4362 (International Branding) (also listed as CHIN 4362)
BUSN 4364 (Internationalizing Intellectual Property) (also listed as CHIN 4364)
CHIN 3330 (Global Business Culture) (also listed as BUSN 3330)
CHIN 3363 (International Business Research) (also listed as BUSN 3363)
CHIN 4130 (Quanqu Shangwu Wenhua-Zhong-Mei Jiaodian) (Global Business Culture) (also listed as BUSN 4130)
CHIN 4362 (International Branding) (also listed as BUSN 4362)
CHIN 4364 (Internationalizing Intellectual Property) (also listed as BUSN 4364)
ECON 3361 (International Finance) (with adviser approval)
ECON 3371 (Internship) (with adviser approval)
FNCE 3390 (Studies in Finance) (with adviser approval)
MGMT 3390 (Studies in Management) (with adviser approval)

IV. Completion of at least one semester abroad in a Chinese-speaking country.

V. The Senior Experience requirement will be satisfied by completing CHIN 4001.

THE MINOR

Students who want to explore the languages and cultures of East Asia in some depth but whose primary interests lie elsewhere may choose a minor in East Asian Studies. If the following requirements are met, the student's diploma will record the successful completion of a minor in East Asian Studies.

I. A core curriculum in East Asian culture (6 semester hours; one course from at least two of the following categories):  
   A. Art and Civilization
      ARTH 1310 (Introduction to Asian Art: China)
      ARTH 1311 (Introduction to Asian Art: Japan)
      CHIN 2311 (Chinese Civilization)
   B. History
      HIST 1320 (History of China)
      HIST 1324 (Modern East Asia)
   C. Philosophy and Religion
      GNEE 1303 (Japanese Perspectives)
      PHIL 1302 (Introduction to Asian Philosophy)
      RELI 1330 (Asian Religions)

II. The concentration in an East Asian language:
   A. Completion of 12 semester hours of upper division language and literature courses taught in the target language.
      CHIN 3301 (Third-Year Chinese I)
      CHIN 3302 (Third-Year Chinese II)
      CHIN 4130 (Global Business Culture)
      CHIN 4301 (Fourth-Year Chinese I)
      CHIN 4302 (Fourth-Year Chinese II)
      CHIN 4310 (Advanced Conversation and Composition)
      CHIN 4321 (Topics in Modern Chinese Literature)
      CHIN 4322 (Readings in Contemporary Chinese Cinema)
      CHIN 4360 (Senior Seminar)
   B. Completion of 6 semester hours of upper division electives taught in English
      BUSN 3330 (Global Business Culture) (also listed as CHIN 3330)
      BUSN 3363 (International Business Research) (also listed as CHIN 3363)
      BUSN 4362 (International Branding) (also listed as CHIN 4362)
      BUSN 4364 (Internationalizing Intellectual Property) (also listed as CHIN 4364)
      CHIN 3320 (The Rise of Modern China) (also listed as HIST 3320)
      CHIN 3330 (Global Business Culture) (also listed as BUSN 3330)
      CHIN 3333 (Chinese Religions) (also listed as RELI 3333)
      CHIN 3363 (International Business Research) (also listed as BUSN 3363)
      CHIN 4362 (International Branding) (also listed as BUSN 4362)
      CHIN 4364 (Internationalizing Intellectual Property) (also listed as BUSN 4364)
      HIST 3320 (The Rise of Modern China) (also listed as CHIN 3320)
      HIST 3324 (History of Korea)
      PLSI 3331 (Political Economy of the U.S., Europe, and Japan)
      PLSI 3341 (East Asian Security)
      RELI 3333 (Chinese Religions) (also listed as CHIN 3333)
      RELI 3354 (Japanese Religions)

When departments offer a relevant course coded under a "special topics" or "variable content" designation, the EAST Committee may approve such courses for inclusion within the major or minor.
GUIDELINES FOR ACCEPTANCE OF MAJORS

Full acceptance is granted if the following requirements are met at the time of application:

1. Completion of the fourth semester of an East Asian language, or its equivalent, with a grade of C or better.
2. Completion of the East Asian Studies core curriculum with grades of C or better.

Provisional acceptance may be granted if it is apparent that an applicant can meet the requirements for full acceptance by the end of the semester in which application is made.

Courses

See the "Requirements" tab.

Faculty

ANGELA BREIDENSTEIN, Ed.D., Associate Professor, Education

RICHARD M. BURR, Ph.D., Professor, Business Administration

DONALD N. CLARK, Ph.D., Murchison Term Professor of History, History; Co-Director

STEPHEN L. FIELD, Ph.D., J. K. and Ingrid Lee Endowed Professor of Chinese Language and Literature, Modern Languages and Literatures; Co-Director

CHIA-WEI LEE, D.M.A., Associate Professor, Music

RANDALL L. NADEAU, Ph.D., Professor, Religion

JIE ZHANG, Ph.D., Assistant Professor, Modern Languages and Literatures
Courses of Study 2011 - 2012

Economics

Requirements

THE MAJOR

The requirements for the degree of Bachelor of Arts with a major in Economics are as follows:

I. The common curriculum

II. Departmental requirements:

Economics majors may choose among six separate curricula:

A. General Economics
   Students desiring to major in Economics without selecting a concentration must complete 30 semester hours in Economics, including ECON 1311, 1312, 2320, 3325, and 3326. (MATH 1320 or 3335* may be substituted for ECON 2320.)
   Recommended: MATH 1307 or 1311.

B. Concentration in Theoretical Economics
   This concentration emphasizes mathematics and economic theory. It is recommended as the appropriate preparation for Ph.D. programs in economics.
   Departmental Requirements:
   1. 30 semester hours in Economics, including:
      a) ECON 1311, 1312, 3325, 3326, 4367, and 4370;
      b) ECON 3351 or 4365.
   2. MATH 1311, 1312, 2321, 3316, 3334, and 3335. (This combination satisfies the requirements for the minor in mathematics.) In addition, MATH 3338 is recommended.

C. Concentration in Economics and Law
   This concentration stresses the application of economic theory to questions of legal and social policy. It is especially appropriate for those planning to enter law school.
   Departmental Requirements:
   1. 30 semester hours in Economics, including ECON 1311, 1312, 2320, 3325, 3326, 3336, 3338, and 3339. (MATH 1320 or 3335* may be substituted for ECON 2320.)
   2. Three courses, approved by the adviser, from departments other than Economics:
      a) a course stressing the case method of legal instruction (e.g., BUSN 3302);
      b) an appropriate course in logic, writing, or speech communication (e.g., HCOM 1333);
      c) a course that views the law from a perspective other than that of economics (e.g., PHIL 3353).
   Recommended: MATH 1307 or 1311.

D. Concentration in Economics and Business
   This concentration is a liberal arts curriculum designed for students planning to enter graduate schools of business administration. In addition to a solid grounding in Economics, this concentration provides an introduction to many of the basic business subjects that students will encounter in MBA programs.
   Departmental Requirements:
   1. 30 semester hours in Economics, including:
      a) ECON 1311, 1312, 2320, 3325, and 3326 (MATH 1320 or 3335* may be substituted for ECON 2320);
      b) ECON 3329 or 3362;
      c) ECON 3336 or 3338 or 3356;
      d) ECON 3347 or 3348 or 3361.
   2. 18 semester hours outside Economics, including:
      ACCT 1301, BUSN 3302, MIS 2301, MKTG 2301, FNCE 3301, and MGMT 2301.
   Recommended: MATH 1307 or 1311 and MATH 1312.
E. Concentration in International Economics

The focus of this concentration is the analysis of two general phenomena: a) economic transactions across international borders, and b) the role of international institutions in shaping international economic life. Besides a firm basis in economic theory, international economics provides an ideal analytical framework for those students interested in any area of international and comparative studies.

Departmental Requirements:

1. 33 semester hours in Economics, including:
   a) ECON 1311, 1312, 2320, 3325, 3326, 3347, and 3348. (MATH 1320 or 3335* may be substituted for ECON 2320.)
   b) ECON 3340 or 3341 or 3342 or 3343 or 3347 or 3348.

2. Three upper division semester hours in a modern foreign language.

3. Two courses, approved by the adviser, that emphasize current sociopolitical aspects of: 1) a foreign country; 2) a group of foreign countries; and/or 3) the relations between several countries or areas of the world.
   Recommended: MATH 1307 or 1311.

F. Concentration in Economics and Public Policy

This concentration emphasizes the application of economic analysis to the design and implementation of public policy. It is especially appropriate for students intending to pursue careers and/or graduate study in public policy or public administration.

Departmental Requirements:

1. 33 semester hours of Economics, including:
   a) ECON 1311, 1312, 2320, 3323, 3325, 3326, and 3330 (MATH 1320 or 3335* may be substituted for ECON 2320);
   b) Two of ECON 3334, 3336, and 3338 (with approval of the adviser, ECON 3340 or 3347 may be substituted for one of these).

2. A course taught by the case method of instruction (e.g., BUSN 3302, ECON 3336).

3. Two courses that examine the analysis or implementation of public policy from a perspective other than that of economics (e.g., HCAD 3350, PLSI 3313, SOCI 3339, URBS 3336/PLSI 3316).
   Recommended: MATH 1307 or 1311, and MATH 1312.
   NOTE: ECON 3336 may be used to satisfy only one of the requirements for this concentration.

*Students intending to use MATH 3335 to fulfill this requirement should note that MATH 1311, 1312, 2321, and 3334 are prerequisites for that course.

III. Electives sufficient to total 124 hours.

THE MINOR

Students who wish to explore Economics in some depth but whose primary interests lie elsewhere may choose a minor in Economics. The minor requires 18 semester hours of Economics, including ECON 1311, 1312, and either 3325 or 3326. At least half the 18 semester hours must be in upper division courses, and at least nine semester hours must be taken at Trinity. None of the courses used to satisfy these requirements may be taken Pass/Fail.

HONORS IN ECONOMICS

The Economics Department offers an honors thesis option to its majors. Candidates must have a 3.5 grade point average in economics, approval by a majority of the economics faculty and permission of the faculty member directing the thesis. The six hours for the thesis must be in addition to the hours required for the major. Please see the Chair of the Department for further details.

Courses

LOWER DIVISION

ECON-1311 Principles of Microeconomics

An introduction to the economic organization of society, with emphasis on how markets, prices, profits and losses guide and direct economic activity. Throughout the course, economic analysis is applied to a wide range of contemporary problems and issues.

ECON-1312 Principles of Macroeconomics

The theory and measurement of changes in the levels of prices, employment, national income and other aggregates. Topics addressed include money and the banking system, international economics, unemployment and inflation, and government stabilization policy.

Prerequisite: ECON 1311.

ECON-2320 Statistics for Management and Economics

Applications of statistical techniques to business and economics. Decision making based on sampling theory, parametric tests of significance, simple and multiple regression and correlation, and time series analysis. (Also listed as BUSN 2301.)
UPPER DIVISION

ECON-3115 Economists in the Elementary School
The application and communication of economic ideas in an educational context. Teams of Trinity students help teach Economics in local elementary schools by creating and leading hands on activities that illustrate and apply fundamental economic concepts. May be repeated for credit with permission of the instructor.
Prerequisites: ECON 1311 or one of the Education Practicum courses (EDUC 2201, 2202, or 2203) and consent of instructor.

ECON-3116 Economists in the Middle School
The application and communication of economic ideas in an educational context. Teams of Trinity students help teach Economics in local middle schools by creating and presenting applications of fundamental economic concepts. May be repeated for credit with permission of the instructor.
Prerequisites: ECON 1311 and consent of instructor.

ECON-3117 Economists in the High School
The application and communication of economic ideas in an educational context. Teams of Trinity students help teach Economics in local high schools by creating and presenting applications of fundamental economic concepts. May be repeated for credit with permission of instructor.
Prerequisites: ECON 1311 and 1312, and consent of instructor.

ECON-3141 La economía mexicana (The Mexican Economy)
Examination of significant contemporary issues affecting the economic life of Mexico: analysis of international, agricultural, financial, communications, and/or labor sectors of the economy and their relationship to Mexico's macroeconomic performance; special attention to the political situation in Mexico and its impact on the economy. (Also listed as INTL 3101.)
Prerequisites: SPAN 2302, ECON 1311, and 1312 or 3318; or consent of instructor.

ECON-3318 The Global Economy
An introductory survey of international economics aimed at students interested in political science, diplomacy, world affairs, history, or business. An examination of economic relationships among countries with an emphasis on globalization process and the debate it has produced. Economic analysis is used to study the impact of imposing (or removing) barriers to trade and the problems of the balance of payments and the exchange rate. Special emphasis is given to the changing policy options available to governments, multilateral organizations, non-governmental organizations, and multinational corporations in the rapidly evolving global economy. Cannot be taken for credit by students who have taken ECON 3347 or 3348 or 3361.
Prerequisite: ECON 1311.

ECON-3323 The Economics of Government
Microeconomic analysis of governmental decision-making and the democratic process. Emphasis is on evaluating the economic efficiency of taxation and expenditure decisions of policymakers, and on how institutional arrangements of majority voting, representative democracy, political parties, bureaucracies and special-interest groups affect those decisions.
Prerequisite: ECON 1311.

ECON-3325 Intermediate Microeconomics
An analytical study of decentralized economic decision-making, with primary emphasis on markets and prices. The range and precision of the analytical techniques developed in Economics 1311 are expanded substantially; these techniques are applied to a variety of economic situations, issues and problems. Attention is given to the economic efficiency consequences of different market structures in both product and input markets, and of various kinds of government intervention in market processes.
Prerequisite: ECON 1311.

ECON-3326 Intermediate Macroeconomics
Theoretical analysis of changes in national income, price level, employment, and the international value of the dollar. Evaluation of alternative stabilization policies. Introduction to economic forecasting.
Prerequisites: ECON 1311 and 1312.

ECON-3329 Labor Economics and Labor Relations
Theories of the demand for and the supply of labor. Analysis of human capital formation, labor force participation, income distribution, unemployment, and unions. Case studies in labor relations. (Also listed as MGMT 3311.)
Prerequisites: ECON 1311 and 1312.

ECON-3330 Economics and the Environment
The economic problem of coping with a finite environment. Study of the interrelationships among economic growth, environmental quality, urban concentration, and resource constraints. Economic analysis of pollution control and other environmental policy problems. (Also listed as URBS 3330).
Prerequisite: ECON 1311.

ECON-3333 Health Economics
An introduction to the application of the tools of microeconomics to issues in the organization, delivery, and financing of health care. Economic analysis will be utilized to better understand critical issues in health care such as the level and growth of health expenditures, the role of the government versus the private sector in financing care, the relationship between doctors, hospitals, insurance providers, patients, and employers, and the role of society in providing for the uninsured. (Also listed as HCAD 3333.)
Prerequisite: ECON 1311 or consent of the instructor.

ECON-3334 Urban Economics
Analytical study of the reasons for cities to exist, the location of economic activity, the economic base of urban areas and the functioning of urban land markets. Economic analysis of selected urban policy issues such as local economic development, zoning and growth controls, housing, transportation, poverty, crime, and the provision of local public services. Attention is paid to the urban experience outside as well as within the U.S. (Also listed as URBS 3334).
Prerequisites: ECON 1311, and three hours of upper-division credit in either Economics or Urban Studies.

ECON-3335 Industrial Organization
The determinants of market structure and the effects of market structure on firm and industry behavior. The relationship between industry characteristics and desirable economic performance. Frequent applications to particular American industries.
Prerequisite: ECON 1311.

ECON-3336 Antitrust Economics
The role of antitrust policy in the American economy. Examines the major antitrust statutes and court opinions of the United States as they relate to market structures and business practices. Landmark antitrust cases are discussed and analyzed with economic theory in an effort to gain insight into the implications of business practices encompassed by the antitrust laws. The penalties and remedies for antitrust violations will also be discussed.
Prerequisite: ECON 1311.

ECON-3338 Government Regulation of Business
Economic analysis of direct government regulatory activity. The course first explores how regulation arises from the political process. These insights, and the tools of microeconomic theory, are then applied to analyze public policy in such fields as electricity, telecommunications, broadcasting, transportation, and safety. (Also listed as BUSN 3338.)
Prerequisite: Three hours of upper division Economics, or consent of instructor.

ECON-3339 Economic Analysis of Law
Economic analysis of such basic legal concepts as property, contracts, torts and crime. Economic theory is also applied to the legal system itself, including an examination of such matters as law enforcement, civil procedure, and the effectiveness of legal sanctions.
Prerequisite: ECON 3325.

ECON-3340 Economic Growth and Development
An inquiry into the desirability, the methods of measurement, alternative strategies for, and the impact of individuals and groups within society on economic development. A survey of theories of economic development. Case studies in comparative perspective.
Prerequisites: ECON 1311 and 1312.

ECON-3341 Economic Development of Mexico
Economic aspects of Spanish colonialism; the transition to national independence; difficulties associated with the period through 1876; industrialization and development through the Revolution; the takeoff of the modern economy after 1940; contemporary issues.
Prerequisites: ECON 1311 and 1312.
ECON-3342 Latin American Economic History
A selective survey of the principal currents of economic growth and change in Latin America since the sixteenth century. Special attention given to the uneven formation of market economies and to problems associated with colonialism and neo-colonialism; with international financial crises and adjustment; and with ideologically diverse models of development. (Also listed as HIST 3348.)
Prerequisites: ECON 1311 and 1312.

ECON-3343 Slavery and the Atlantic Economy
Interdisciplinary analysis of the Atlantic market joining Europe, Africa, and the Americas from the sixteenth through the nineteenth centuries, with particular emphasis upon slavery, the slave trade, and the development of the "plantation complex." Makes explicit use of economic theory to explain historical change. (Also listed as HIST 3384.)
Prerequisites: ECON 1311 and HIST 1354 or HIST 1380 or consent of instructor.

ECON-3344 Economic and Business History of the United States to 1865
A study of the development of American business and the economy through the U.S. Civil War. (Also listed as BUSN 3344 and HIST 3360.)
Prerequisites: ECON 1311 and 3 hours of U.S. history or consent of instructor.

ECON-3345 Economic and Business History of US since 1865
A study of the development of American business and the economy from the U.S. Civil War to the present. (Also listed as BUSN 3345 and HIST 3361.)
Prerequisites: ECON 1311 and 3 hours of U.S. history or consent of instructor.

ECON-3346 La economía española y la Unión Europea (The Spanish Economy and the European Union)
An examination of Spain's economic development and its position within the European Union. The business, economic, and political transformation of Spain from a struggling nation with an authoritarian regime to an economic power with an open and democratic society are studied. The course also examines the development of European Union, with a special focus on its influence on the Spanish business environment. The experiential component of the course includes visits to businesses, government agencies, and NGOs in Spain. (Also listed as BUSN 3346, INTL 3346, and SPAN 3346).
Prerequisites: ECON 1311, three additional hours in business or economics, SPAN 2302 or the equivalent, and consent of the instructor.

ECON-3347 International Trade
A study of the economic theory of international trade and the development of the practices of commercial policy. Emphasis is on the economic analysis of a variety of protectionist policies, the international institutions involved in trade and protectionist issues, the importance of trade for development, issues in international capital flows, and multinational corporations. Practice is provided in reading and understanding published sources of data and analysis.
Prerequisite: ECON 1312 and 3325.

ECON-3348 International Monetary Systems
A study of the principles and practices of foreign exchange, international money markets, the balance of payments, payments adjustment mechanism and the national policies for achieving both domestic and international objectives. Coverage includes the description and history of the relevant national and international institutions. Practice is provided in understanding recent international economic events and current policy issues. (Also listed as FNCE 3348.)
Prerequisites: ECON 1311 and 1312.

ECON-3351 Development of Economic Thought
A survey of the "Great Books" of Economics from Adam Smith's Wealth of Nations to John Maynard Keynes's General Theory. The course is intended to acquaint students with the ideas of the creators of economic theory in an effort to understand the intellectual forces that have shaped modern economic thought. Classical, Marxian, Neo-Classical, Institutional and Keynesian theory will be studied and analyzed against the backdrop of the times in which the ideas were developed.
Prerequisites: ECON 1311 and 1312.

ECON-3356 Financial Institutions and Markets
Analytical investigation of the structure, efficiency, and regulation of financial markets and institutions. Topics include determination of the level and structure of interest rates, asset valuation, and the flow of funds between markets, theory and practice of financial intermediation, and the social utility of the financial sector. (Also listed as FNCE 3351.)
Prerequisites: ECON 1311 and 1312 and junior standing.

ECON-3361 International Finance
This course emphasizes the study of the global exchange rate and associated derivatives markets with particular emphasis on foreign risk hedging; the study of financial equilibrium relations and their effects on the international capital markets, and the potential arbitrage opportunities that result in the absence of equilibrium; and the use of case studies to illustrate the application of theoretical tools on the multinational corporate environment. (Also listed as FNCE 3361.)

Prerequisite: FNCE 3301 or consent of instructor.

ECON-3382 The American Corporation

This course acquaints the student with organization theory, corporate decision-making, and the role of the corporation in society. Contemporary corporate issues are discussed and analyzed through readings and the application of fundamental principles to case studies. (Also listed as BUSN 3313.)

Prerequisite: ECON 1311.

ECON-3365 Behavioral and Experimental Economics

Uses experimental findings to test existing theories and motivate the development of new ones. Students participate in both the design and running of experiments. Analyzes the impact of behavioral theories on such topics as trust, reciprocity, time discounting, portfolio choice, and altruism. Behavioral Economics incorporates psychological findings into both traditional economic and game theoretic models of decision making. Experimental Economics studies the design and methodology of economic experiments.

Prerequisite: ECON 3325 or permission of the instructor.

ECON-3-71 Internship

Internships may be arranged with businesses, non-profit institutions and government agencies. Economic analysis must be performed during the course of the internship, with work load requirements similar to those of typical Economics courses carrying the same number of hours of credit. The sponsoring institution develops a work program, to include written economic analysis in conjunction with the supervising faculty member and the student. Students are limited to a maximum of six hours' credit for internship experiences.

Prerequisites: Six semester hours of economics and permission of the Department Chair.

ECON-3372 Práctica profesional en España (Internship in Spain)

A supervised summer internship in Spain. Students enrolled in ECON 3372 will serve as interns with various firms, trade groups, governmental agencies, or public interest groups where they will work and gain experience related to the Spanish economy and business world. The nature of the student's responsibilities will vary with the internship involved and be subject to the approval of the supervising faculty member. (Also listed as BUSN 3372, INTL 3372, and SPAN 3372.)

Prerequisites: ECON 1311, three additional hours in business or economics, SPAN 2302 or the equivalent, and consent of instructor.

ECON-3-90 Research Topics

Supervised independent study on selected topics in economics.

Prerequisites: Junior standing, 3.0 grade average in economics, and permission of instructor.

ECON-3-98 Honors Readings

Independent study in selected areas in preparation for Honors Thesis. May be taken for up to three hours credit.

ECON-4349 Seminar in Economic Issues

Use of economic analysis and reasoning to better understand current economic issues. Topics vary. Representative selection includes economics of the stock market, Social Security, welfare reform, and topics selected by students from articles in the Journal of Economic Perspectives. Emphasis is on oral and written analysis of economic issues, class discussion and debate, and reading of articles by leading economists from sources other than textbooks. Focus is on the questions being asked by economists and the approaches taken to address these questions - that is, what economists do and how they do it.

Prerequisites: Six hours of upper-division Economics and junior standing.

ECON-4365 Game Theory

The science of strategic thinking. A study of the strategic aspects of situations in which a person's choice depend critically on what other people may choose. Topics include static games with complete information, dynamic games, games with uncertainty and games with incomplete information. Emphasizes the application of game theoretic tools to a broad array of economic issues.

Prerequisites: ECON 3325, MATH 1312, and ECON 2320 (or equivalent), or consent of instructor.

ECON-4367 Advanced Microeconomic Theory

This course acquaints the student with classical microeconomic theory and enables him or her to construct mathematical economic models. Topics include: consumer theory; theory of the firm; multimarket equilibrium; decision-making under certainty; optimization over time; theoretical and applied welfare economics.

Prerequisites: ECON 3325 and MATH 2321.
ECON-4370 Econometrics
The development of statistical techniques of measurement and inference especially suited to empirical economics. The course covers linear regression, maximum likelihood estimation, and significance tests. The main emphasis is on the proper formulation and testing of hypotheses.
Prerequisites: ECON 1312, ECON 3325, ECON 2320 or equivalent, and MATH 1312, or permission of instructor.

ECON-4397 Seminar in Economics
Study of theoretical and empirical work in economics from scholarly books and periodicals. Independent research and group discussion. May be repeated when topics differ. Topic A: Microeconomics Topic B: Macroeconomics Topic C: Labor Economics Topic D: Selected topics.
Prerequisite: Permission of instructor.

ECON-498 Honor Thesis
Individual research and scholarly investigation under faculty supervision leading to the preparation of an Honors Thesis. To be taken only by senior Honors students in both semesters of their senior year.

Faculty
DENNIS A. AHLBURG, Ph.D., Professor; President of the University
RICHARD V. BUTLER, Ph.D., Professor
NELS P. CHRISTIANSEN, Ph.D., Assistant Professor
ERIKA GULYAS, Ph.D., Assistant Professor
JOHN H. HUSTON, Ph.D., Professor; Chair
DAVID A. MacPHerson, Ph.D., E. M. Stevens Professor
MARIA P. PAGANELLI, Ph.D., Assistant Professor
RICARDO M. SANTOS, Ph.D., Assistant Professor
ROGER W. SPENCER, Ph.D., Vernon F. Taylor Distinguished Professor
JOHN J. McCUSKER, Ph.D., Ewing Halsell Distinguished Professor of American History
RICHARD J. SALVUCCI, Ph.D., Professor
EDWARD J. SCHUMACHER, Ph.D., Associate Professor of Health Care Administration
ELIZABETH A. WATSON, Ph.D., Assistant Professor
Courses of Study 2011 - 2012

Education

Overview

5-YEAR TEACHER EDUCATION PROGRAM

The 5-year Teacher Education Program at Trinity University features preparation and certification in Early Childhood-Grade 6 (EC-6), Middle Grades (Grades 4-8), Grades 8-12, and All-Level Music. Supplemental certificates in Special Education and English as a Second Language (ESL) are also available. Students in teacher education major in the subject(s) they plan to teach, and the B.A. or B.S. degree in an academic discipline is awarded at the completion of undergraduate studies. The fifth year, which students must complete to satisfy Texas certification requirements and to receive the benefits of existing reciprocity agreements with other states, consists of a summer and two semesters. Upon completion of the fifth year, students receive a M.A.T. (Master of Arts in Teaching), a professional degree.

The purpose of the undergraduate requirements in teacher education is to ensure that students achieve the academic content mastery, the intellectual habits of mind, and the pedagogical readiness that are required to gain admission to the 5th year graduate program and, ultimately, to meet state teacher certification standards. We expect that Trinity undergraduates who plan to apply for the M.A.T. program will follow one of the plans for certification described in the catalogue. In certain exceptional cases - for example, students who make a late decision to apply to the 5th year program - applicants may be able to demonstrate that they have attained the prerequisite academic knowledge and skills, intellectual habits of mind, and pedagogical readiness through assessments other than a transcript review. These supplemental assessments may include: outstanding grades in courses in the proposed teaching field, additional standardized examinations such as the PRAXIS II or TEExES in the proposed teaching field, and other performance exhibitions that the faculty determine.

Requirements

ADMISSION TO TEACHER EDUCATION

Students apply to the Teacher Education Program upon completion of at least forty-five (45) semester hours and at least one (1) practicum course. Application forms for admission to teacher education may be obtained on the web page: http://www.trinity.edu/departments/education/Degree_Programs/MAT_Admissions_Trinity_Current.htm

Criteria considered in admission to the teacher education sequence are:
1. Completion of a practicum (EDUC 2201, 2202, or 2203) or equivalent;
2. Previous academic records and a grade point average of 3.0 (2.6 provisional) overall and in education coursework;
3. Passing scores on the Texas Higher Education Assessment (THEA) or evidence of exemption;
4. Recommendations by current and/or former professors and mentor teachers from the practicum; and
5. Approval of the faculty of the Department of Education and the Council on Teacher Education.

Continuance in the Teacher Education Program is dependent upon review and approval each semester by the faculty of the Department of Education and meeting graduate school admission requirements.

ADMISSION TO THE FIFTH-YEAR INTERNSHIP

Students admitted to teacher education must be approved for graduate studies in order to matriculate in the fifth year. The application for graduate studies must be completed during the senior year, and full admission requires a grade point average of 3.0 (2.6 provisional) on the last 60 hours of undergraduate work. Other performance criteria may include the GRE, TEExES exam(s), assessments of academic work, and other performance assessments.

Continuance in the Master of Arts in Teaching program (the "fifth year") is dependent upon review and approval each semester by the faculty of the Department of Education.

APPLICATION FOR CERTIFICATION

It is necessary to apply for a Texas teacher certificate through the Department of Education, and register with the Certification and Assessment Specialist in the Department of Education, Storch Memorial Building. Application for certification must be made at the beginning of the semester in which the student will complete requirements, normally at the end of the fifth year.

All Teacher and Administrator Preparation Program graduates applying for state certification must pass proficiency tests and the TEExES examinations in their fields of certification.

CERTIFICATION FOR ELEMENTARY GRADES EDUCATION

Students seeking certification to teach at the Early Childhood-Grade 6 level should complete any academic major and other requirements, as follows:
I. The Common Curriculum

II. Education Course of Study

A. EDUC 1210, 1106 recommended for first-year students.
B. EDUC 1331*, 2201, 2202, 3301, 3302, 3320*, 3341, 3351, and 4100 are required.
C. CSCI 1300-7* or equivalency is required.

III. Recommended Courses: In preparation for certification as an EC-6 Generalist, students are strongly encouraged to take as many of the courses listed below as possible, most of which satisfy Common Curriculum requirements.

- ART 2314* (Creative Thinking and the Artistic Process) (also listed as ENGL 2340, GNED 2340, MUSC 2340, and THTR 2340)
- CLAS 1305* (Classical Mythology)
- COMM 2302* (Media Interpretation and Criticism)
- ECON 1311* (Microeconomics)
- ECON 3115 (Economists in the Elementary School)
- EDUC 3330 (Teaching Students with Learning and Behavior Problems)
- EDUC 3332 (Reading Difficulties with Diverse Populations)
- ENGL 2303* (American Literature: Colonization to 1900)
- ENGL 2304* (American Literature: New Realism through the Moderns)
- ENGL 2340* (Creative Thinking and the Artistic Process) (also listed as ART 2314, GNED 2340, MUSC 2340, and THTR 2340)
- EDRT 2304* (Creative Thinking and the Artistic Process) (also listed as ART 2314, ENGL 2340, MUSC 2340, and THTR 2340)
- HIST 1360* (The History of the U.S. Through Reconstruction)
- HIST 1361* (The History of the U.S. Since Reconstruction)
- HIST 3376 (History of Texas)
- HCOM 3360* (Small Group Communication)
- HCOM 3372* (Intercultural Communication)
- MUSC 2340* (Creative Thinking and the Artistic Process) (also listed as ART 2314, ENGL 2340, GNED 2340, and THTR 2340)
- MUSC 2361 (Music in Childhood)
- MUSC 2362 (Music in Early Childhood)
- PLSI 1301* (American Politics)
- PLSI 1331* (Comparing Countries)
- PSYC 1300* (Principles of Psychology)
- SOCI 1301* (Introduction to Sociology)
- SOCI 1316* (Places and Regions in Global Context) (also listed as URBS 1316)
- THTR 2340* (Creative Thinking and the Artistic Process) (also listed as ART 2314, ENGL 2340, GNED 2340, and MUSC 2340)
- URBS 1318* (Places and Regions in Global Context) (also listed as SOCI 1316)

CERTIFICATION FOR MIDDLE GRADES EDUCATION

Students seeking certification to teach in the middle grades (grades 4-8) in Texas should complete the following requirements:

I. The common curriculum

II. Education Course of Study

A. At least two practicum courses are required (EDUC 2202 and/or EDUC 2201).
B. EDUC 1331*, 3302, 3320*, and 4100 are required.
C. CSCI 1300-7* or equivalency is required.

III. Teaching Field/Area of Certification

Students seeking certification at grades 4-8 or grades 6-12 will be certified in one or more teaching fields at the end of the Master of Arts in Teaching graduate program. At the undergraduate level, students must complete a major in order to graduate from the university. This major forms the basis of the requirements for the teaching field. Students have two options to meet the requirements for a teaching field.

A. Departmental Major Plus Additional Requirements

Students pursue a major in an academic department at Trinity as well as additional courses that will prepare students for their teaching field and certification exam. Students may complete more than one major with additional requirements in order to attain certification in more than one area. Courses listed after the major have been identified as important courses that meet the content standards for Texas certification. Some students will be able to take these courses within the major ("including") while other students will need to take the courses in addition to the major ("plus"). Major advisors and the supplemental adviser within the education department will be able to advise students in each area.

B. Composite Major or Interdisciplinary Studies Major

Students pursue a major in Composite Science, Composite Social Studies, or Interdisciplinary Studies through the Department of Education.

CERTIFICATION AREAS:

- Chinese Early Childhood - Grade 12 Certification
  - Chinese Studies Major
- English, Language Arts, and Reading 4-8 Certification
  - English Major, including EDUC 3301 and EDUC 4338
- English/Reading and Social Studies 4-8 Certification
  - Interdisciplinary Studies Major, English/Reading and Social Studies: Completed through the Department of Education
    - History: HIST 1340*, 3376, 3388; one lower division U.S. history course (HIST 1360*, 1361*, 1375*, 1376*); one lower division European history course (HIST 1310*, 1322*, 1334*, 1335*)
    - Economics: ECON 1311*, 1312*, and 3116 or 3117
    - Political Science: PLSI 1301* and 1331*
English: ENGL 2303* or 2304* or 2305*; 2311, 3302 or 3303; 3349
Reading: EDUC 3301, 3330, 3332/3335, 4338
Note: EDUC 2201 or 2202 may be used as prerequisites for EDUC 3301.
Geography: URBS 1316/SOCI 1316 (recommended)
Sociology and Anthropology: SOCI 1301

French Early Childhood - Grade 12 Certification
French Major

German Early Childhood - Grade 12 Certification
German Major, including GERM 3305*

Latin Early Childhood - Grade 12 Certification
Latin Major, including LATN 3301; plus HIST 3318

Mathematics 4-8 Certification
Math Major, including MATH 3334 (3341, 3343, 3355 are recommended); plus EDUC 3351

Mathematics/Science 4-8 Certification
Interdisciplinary Studies Major, Mathematics and Science: Completed through the Department of Education
(Note: Students will also receive a Math minor upon completion of this major.)
Biology: 1111*, 1311*, 1212*, 1312*, and 3430
Chemistry: CHEM 1118*, 1318*, 2119*, and 2319*
Physics: PHYS 1111* and 1309*
Geosciences: GEOS 1304* or 1407* and 2401* (lab prerequisite required)
Math: MATH 1311*, 1312*, 2321*, 3323, 3334, 3341 or 3343, and 3355
Education: EDUC 3342

Science 4-8 Certification
Biology Major (plus GEOS 1304 and 2101, EDUC 3342)
Chemistry Major (plus BIOL 1311 and 1111, GEOS 1304 and 2101, EDUC 3342)
Physics Major (plus BIOL 1311 and 1111, GEOS 1304 and 2101, CHEM 1318 and 1118, EDUC 3342)
Geosciences Major (plus CHEM 1318 and 1118, BIOL 1311 and 1111, EDUC 3342)

Composite Science Major: Completed through the Department of Education
Students will complete the minimum requirements, as specified below. In addition, students must complete upper division hours to total at least twenty-four (24) semester hours in one area.
Biology: 1111*, 1311*, 1212*, 1312*, and 3430
Chemistry: 1118*, 1318*, 2119*, 2319*, 2220, and 2320
Physics: 1111*, 1309*, 1112*, 1310*, and 3 hours of Physics elective
Geosciences: 1304* or 1407*, and 2401* (lab prerequisite required)
Education: 3342

Social Studies 4-8 Certification
History Major, including HIST 3376 and 3388, plus 1 course from U.S. history, 1 course from European history, and at least 1 course each from 3 of the following 4 fields: African History, Asian History, Latin American History, and Middle East History
Plus Economics (ECON 1311*, 1312*, 3116) [ECON 2320 and one (1) upper division economics course are recommended]
Plus Political Science (PLSI 1301* and 1331*)
Plus one of the following courses: URBS 1316/SOCI 1316, PSYC 1300*, or SOCI 1301

Economics Major, including ECON 2320 and 3116
Plus History (HIST 3376 and 3388, plus 1 course from U.S. History, 1 course from European History, and at least 1 course each from 3 of the following 4 fields: African History, Asian History, Latin American History, and Middle East History)
Plus Political Science (PLSI 1301* and 1331*)
Plus one of the following courses: URBS 1316/SOCI 1316 (Human Geography), PSYC 1300*, or SOCI 1301*

Political Science Major, including PLSI 1301* and 1331*
Plus History (HIST 3376 and 3388, plus 1 course from U.S. History, 1 course from European History, and at least 1 course each from 3 of the following 4 fields: African History, Asian History, Latin American History, and Middle East History)
Plus Economics (ECON 1311*, 1312*, 3116) [ECON 2320 and one (1) upper division economics course are recommended]
Plus one of the following courses: URBS 1316/SOCI 1316, PSYC 1300*, or SOCI 1301*

Sociology Major, including SOCI 1301*
Plus History (HIST 3376 and 3388, plus 1 course from U.S. History, 1 course from European History and at least 1 course each from 3 of the following 4 fields: African History, Asian History, Latin American History, and Middle East History)
Plus Economics (ECON 1311*, 1312*, 3116) [ECON 2320 and one (1) upper division economics course are recommended]
Plus Political Science (PLSI 1301* and 1331*)
Plus Psychology (PSYC 1300*) is recommended, but not required

Composite Social Studies Major: Completed through the Department of Education
Students must choose a concentration in history, economics, or political science. Fifty-two (52) to sixty-one (61) semester hours are required, depending on the concentration selected.

History Concentration
History: HIST 3376 and 3386; two (2) of the following courses: 1360* or 1375*, 1381* or 1376*, 3362, 3365, 3367, 3368; two (2) of the following courses: 1310*, 1332*, 1334*, 1335*, 3310, 3314, 3330, 3336, one (1) of the following courses: 3340, 3344, 3346; and one (1) of the following courses: 1320*, 1350*, 1351*
Economics: ECON 1311*, 1312*, 3116 [ECON 2320 and one (1) upper division economics course are recommended]
Political Science: PLSI 1301*, 1331*, and one (1) of the following upper division courses: 3301, 3305, 3306, 3307, 3316

Social Sciences: one of the following courses: URBS 1316/SOCI 1316 (Human Geography), PSYC 1300*, or SOCI 1301*
Economics Concentration
Economics: ECON 1311*, 1312*, 2320, 3116, 3225, 3326; one (1) course in the historical perspective (ECON 3343, 3344, 3345, or 3351); one (1) course in the international perspective (ECON 3318 or 3347); and one (1) course in the public policy perspective (ECON 3323, 3330, 3334, 3338, 3338, or 3356)

History: HIST 3376 and 3388, plus 1 course from U.S. History, 1 course from European History, and at least 1 course each from 3 of the following 4 fields: African History, Asian History, Latin American History, and Middle East History

Political Science: PLSI 1301*, 1331*; and one (1) of the following upper division courses: 3301, 3305, 3306, 3307, or 3316

Social Sciences: one of the following courses: URBS 1316/SOCI 1316 (Human Geography), PSYC 1300*, or SOCI 1301*

Political Science Concentration
Political Science: PLSI 1301*, 1331*, 1341, 3345, 3361 or 3362*; and nine (9) hours from the following: 3301, 3303, 3304, 3305, 3306, 3307, 3313, 3314, 3316; 3355, 3361.

History: HIST 3376 and 3388, plus 1 course from U.S. History, 1 course from European History, and at least 1 course each from 3 of the following 4 fields: African History, Asian History, Latin American History, and Middle East History

Economics: ECON 1311*, 1312*, 3116 [ECON 2320 and one (1) additional upper division economics course are recommended]

Social Sciences: one of the following courses: URBS 1316/SOCI 1316 (Human Geography), PSYC 1300*, or SOCI 1301*

Spanish Major, including 3311 or 3312*

COMBINATION CERTIFICATION FOR GRADES 4-8 AND 8-12 EDUCATION
Students seeking certification to teach Grades 4-8 and Grades 8-12 in Texas should complete the following requirements:

I. The common curriculum

II. Education Course of Study (required courses)
   A. EDUC 1210 and 1106 are recommended for first-year students.
   B. EDUC 2202 and 2203.
   C. EDUC 3302 and 3303.
   D. EDUC 1331*, 3320*, and 4100.
   E. CSCI 1300-7* or equivalency.

III. Teaching Field/Area of Certification
Students seeking certification in grades 4-8 and 8-12 will be certified at two levels and in one or more teaching fields at the end of the Master of Arts in Teaching program. At the undergraduate level, students must complete a major to graduate from the university. This major forms the basis of the requirements for the teaching field. Students seeking dual certification must complete requirements for a teaching field at both the Grades 4-8 and Grades 8-12 levels. These fields include English, reading, science, social studies, and math. Internships in the program consist of one semester in a middle grades classroom and one semester in a high school classroom. Please contact the faculty member in charge of the program for more specifics.

CERTIFICATION FOR HIGH SCHOOL EDUCATION
Students seeking certification to teach at the 8-12 or the 6-12 grade level should complete the following undergraduate requirements:

Note: An asterisk (*) indicates a course that fulfills a common curriculum requirement.

I. The common curriculum

II. Education Course of Study
   A. EDUC 1210 and 1106 are recommended for first-year students.
   B. At least 2 practicum courses are required (EDUC 2203 plus EDUC 2201 or 2202).
   C. EDUC 1331*, 3303, 3320*, and 4100 are required.
   D. CSCI 1300-7* or equivalency is required.

III. Teaching Fields/Area of Certification
Students seeking certification at grades 8-12 will be certified in one or more teaching fields at the end of the Master of Arts in Teaching graduate program. At the undergraduate level, students must complete a major in order to graduate from the university. This major forms the basis of the requirements for the teaching field. Students have two options to meet the requirements for a teaching field.

A. Departmental Major Plus Additional Requirements
   Students pursue a major in an academic department at Trinity as well as additional courses that will prepare students for their teaching field and certification exam. Students may complete more than one major with additional requirements in order to attain certification in more than one area.
   Courses listed after the major have been identified as important courses that meet the content standards for Texas certification. Some students will be able to take these courses within the major ("including") while other students will need to take the courses in addition to the major ("plus"). Major advisers and the supplemental adviser within the education department will be able to advise students in each area.

B. Composite Major
   Students pursue a major in either Composite Science or Composite Social Studies through the Department of Education.

Certification Areas:

Chinese Early Childhood - Grade 12 Certification

Chinese Studies Major

Chemistry 8-12 Certification

Chemistry Major, plus EDUC 3342

Computer Science 8-12 Certification

Computer Science Major, including CSCI 3343
(Note: CSCI required of all candidates for certification, including Computer Science candidates.)
Trinity University

English Language Arts and Reading 8-12 Certification

English Major, including ENGL 3346 and EDUC 4338. ENGL 3304, GNED 3328, SOCI 3331, LING 1300, and PSYC 2330 are recommended but not required.

French Early Childhood - Grade 12 Certification

French Major

German Early Childhood - Grade 12 Certification

German Major, including GERM 3305*

History 8-12 Certification

Select from one of the following options:

History Major, including HIST 3378 and 3386, plus 1 course from U.S. History, 1 course from European History, and at least 1 course each from 3 of the following 4 fields: African History, Asian History, Latin American History, and Middle East History

URBS 1316/SOCI 1316 (recommended)

Composite Social Studies Major (See Social Studies Certification 8-12)

Journalism 8-12 Certification

Communications Major, including COMM 3340; two (2) of the following courses: COMM 3341, 3342, 3343, 3344; and two (2) of the following: COMM 3321*, 3322, 3324, 3326, 3328, 3362

Latin Early Childhood - Grade 12 Certification

Latin Major, including LATN 3301; plus HIST 3318

Life Science 8-12 Certification

Select from one of the following options:

Biology Major, including BIOL 3430, plus EDUC 3342

Composite Science Major (See Science Certification 8-12)

Mathematics 8-12 Certification

Mathematics Major, including MATH 3334, plus EDUC 3342 (MATH 3341, 3343, and 3355 are strongly recommended, but not required)

Physical Science 8-12 Certification (Student is certified to teach Chemistry and Physics)

Select from one of the following options:

Chemistry Major

Plus Physics [PHYS 1111*, 1309*, 1112*, 1310*, 3323 (prerequisite waived)]

Plus Geoscience [GEOS 1304* or 1407*; and 2401* (lab prerequisite required)]

Plus EDUC 3342

Physics Major

Plus Chemistry (CHEM 1118*, 1318*, 2119*, 2319*; 2220, and 2320)

Plus Geoscience [GEOS 1304* or 1407*; and 2401* (lab prerequisite required)]

Plus EDUC 3342

Geoscience Major

Plus Chemistry (CHEM 1118*, 1318*, 2119*, 2319*; 2220, and 2320)

Plus Physics [PHYS 1111*, 1309*, 1112*, 1310*, 3323 (prerequisite waived)]

Plus EDUC 3342

Composite Science Major (See Science Certification 8-12)

Physics/Mathematics 8-12 Certification

Select from one of the following options:

Physics Major

Plus MATH 1320 or 3334 (MATH 3341, 3343, 3355 are strongly recommended), and EDUC 3342

Mathematics Major

Plus PHYS [1111*, 1309*, 1112*, 1310*, 3323 (prerequisite waived)], and EDUC 3342

Science 8-12 Certification

Composite Science Major: Completed through the Department of Education

Students will complete the minimum requirements, as specified below. In addition, students must complete upper division hours to total at least twenty-four (24) semester hours in one area.

BIOL 1111*, 1311*, 1212*, 1312*, and 3340

CHEM 1118*, 1318*, 2119*, 2319*, 2220, and 2320

PHYS 1111*, 1309*, 1112*, 1310*, and 3323 (prerequisite waived)

GEOS 1304* or 1407*; and 2401* (lab prerequisite required)

EDUC 3342

Social Studies 8-12 Certification

Select from one of the following options:

History Major, including HIST 3378 and 3388, plus 1 course from U.S. History, 1 course from European History, and at least 1 course each from 3 of the following 4 fields: African History, Asian History, Latin American History, and Middle East History

Plus Economics [ECON 1311*, 1312*, 3117] [ECON 2320 and one (1) upper division economics course are recommended]
CERTIFICATION FOR ALL-LEVEL THEATRE ARTS and ART (Early Childhood - Grade 12)

I. The common curriculum

II. Education Course of Study

A. EDUC 1210 and 1106 recommended for first-year students.
B. Choose 2 courses from the following: EDUC 2201, 2202, 2203.
C. Choose 1 course from the following: EDUC 3301, 3302, or 3303.
D. EDUC 1331*, 3320*, and 4100 are required.
D. CSCI 1300-7* or equivalency is required.

Theatre Arts EC-12 Certification

Theatre Major, including THTR 1330, 2352 or 2356, 2354 and 3340 In addition, HCOM 2313 is recommended, but not required.

Art EC-12 Certification

Art Major, including ART 2370; two (2) of the following courses: 3330, 3340, 3350, 3360, 3372, or 3380.

CERTIFICATION FOR ALL-LEVEL MUSIC (Age 3 - Grade 12)

Students pursue a major in music including courses for certification. Students will be certified to teach music to students age 3 to grade 12. Students should complete the following undergraduate requirements:

I. The common curriculum

II. Education Course of Study

A. 2 practicum courses are required (EDUC 2204, 2205).
B. EDUC 1331* and 3320* are required.
C. CSCI 1300-7* or equivalency is required.

III. Music major, including a minimum of 72 semester hours in music. Students may choose from a choral or an instrumental option.
Arts in School Psychology is awarded after completing 60 semester hours including two years of full-time study and a third-year internship. SEMESTERS (FALL AND SPRING) AND PROVIDES INTERNS WITH OPPORTUNITIES FOR SUPERVISED WORK IN ASSESSMENT, COUNSELING, CONSULTATION, AND PROGRAM EVALUATION. TRINITY UNIVERSITY OFFERS A 60-SEMESTER HOUR SPECIALIST PROGRAM IN SCHOOL PSYCHOLOGY THAT IS APPROVED BY THE NATIONAL ASSOCIATION OF SCHOOL PSYCHOLOGISTS (NASP). THE MASTER OF ARTS IN SCHOOL PSYCHOLOGY IS DESIGNED TO PREPARE CANDIDATES TO ASSUME RESPONSIBILITY AS AN ELEMENTARY, MIDDLE, OR SECONDARY SCHOOL, OR AS A CENTRAL OFFICE MID-MANAGEMENT ADMINISTRATOR. EMphasis is given to practical management techniques and to the role of the administrator as an instructional leader. CANDIDATES WILL PURSUE A MAXIMUM OF 36 SEMESTER HOURS IN THE FOLLOWING COURSES: EDUC 5390, 5391, 5392, 5393, 5394, 5395, 5396, 5398, 5399, 5636, 5972.

B. During the graduate year of study, students pursuing a supplemental Special Education certificate will replace several required general education courses with the following: EDUC 5399, 5636, 5983.

THIRD YEAR GRADUATE COURSE OF STUDY

A. During the graduate year of study, students in general education will complete the following: EDUC 5273, 5339, 5350, 5351, 5352, 5361, 5971, and 5972.

B. During the graduate year of study, students pursuing a supplemental Special Education certificate will replace several required general education courses with the following: EDUC 5399, 5636, 5983.

FIFTH YEAR GRADUATE COURSE OF STUDY

The fifth year of the M.A.T. program consists of a summer session and two semesters (32 hours). Upon completion of the fifth year, students receive a M.A.T. (Master of Arts in Teaching), a professional degree.

THOSE STUDENTS SEEKING CERTIFICATION EC-6

A. During the graduate year of study, students in general education will complete the following: EDUC 5263, 5339, 5350, 5351, 5352, 5360, 5661, and 5983.

B. During the graduate year of study, students pursuing a supplemental Special Education certificate will replace required general education courses with the following: EDUC 5399, 5636, 5983.

MASTER OF EDUATION IN SCHOOL ADMINISTRATION

This program is designed to prepare candidates to assume responsibility as a principal or assistant principal of an elementary, middle, or secondary school, or as a central office mid-management administrator. Emphasis is given to practical management techniques and to the role of the administrator as an instructional leader. Candidates will pursue courses in school management, educational finance, and general leadership skills. Additionally, students study curriculum development, supervision of instruction, and educational research. The Master of Education degree in School Administration may be earned by completing 36 semester hours. Upon completion of coursework and the requisite certification exam, students will receive Texas' Standard Principal Certificate.

The course of study includes:

EDUC 5390 (Educational Administration and Organization)
EDUC 5391 (School Management Functions)
EDUC 5392 (Administration of the Elementary and Secondary School)
EDUC 5393 (Research Methods - School Administration)
EDUC 5394 (Supervised Practicum - School Administration)
EDUC 5395 (Curriculum Development)
EDUC 5396 (Problems in Administration)
EDUC 6390 (School Law and Finance)
EDUC 6391 (Advanced Problems in Administration)
EDUC 6393 (Problems in Practice)
EDUC 6993 (Internship)

MASTFR OF ARTS IN SCHOOL PSYCHOLOGY

Trinity University offers a 60-semester hour specialist program in school psychology that is approved by the National Association of School Psychologists (NASP). The Master of Arts in School Psychology is awarded after completing 60 semester hours including two years of full-time study and a third-year internship.

The third-year internship (6 semester hours) consists of a minimum of 1200 clock-hour placement in a school setting. This full-time experience occurs over two consecutive semesters (Fall and Spring) and provides interns with opportunities for supervised work in assessment, counseling, consultation, and program evaluation.

Upon completing the 60-semester hour program, students are eligible for national certification by NASP. The Trinity University program meets the certification and licensure requirements by states that have adopted NASP standards such as Texas.

The course of study includes:
EDUC 5379 (Psychological Assessment: Cognitive and Academic II)
EDUC 5380 (Biological Basis of Behavior and Emotion)
EDUC 5381 (Human Development and Learning)
EDUC 5382 (Psychological Assessment: Cognitive and Academic I)
EDUC 5384 (Behavior Management and Special Education)
EDUC 5385 (Research Methods I - Advanced Statistics)
EDUC 5386 (Psychological Assessment: Emotions and Personality)
EDUC 5187 (Emotional/Personality Assessment Lab)
EDUC 5388 (Neuropsychological Assessment and Remediation)
EDUC 5389 (Counseling Theory and Methods)
EDUC 6380 (Consultation Theory and Methods)
EDUC 6381 (Research Methods II: Design and Application)
EDUC 6382 (Group and Family Interventions)
EDUC 6185 (Developmental Assessment Lab)
EDUC 6385 (Developmental Assessment: Infants and Young Children)
EDUC 6389 (Supervised Practicum - School Psychology)
EDUC 6388 (Legal and Ethical Issues)
EDUC 6183 (Interventions Lab)
EDUC 6384 (School Psychology Practice)
EDUC 5390 (Educational Administration and Organization)
EDUC 7380 (School Psychology Internship: Part I)
EDUC 7381 (School Psychology Internship: Part II)

Courses

EDUC-1105 Seminar on Current Issues in Education
A study of the principal issues in public education that affect teaching and learning. Sessions include field trips to selected institutions in the San Antonio community.

EDUC-1106 Seminar on School and Community
A study of selected schools and the communities they serve. Seminar includes field trips to school and community sites.

EDUC-1110 Service Learning in Education
This course will allow undergraduates to design and execute a service learning project in partnership with an area school or community site. In consultation with a faculty advisor, participants will design a suitable project comprising significant volunteer service. Students will prepare a written proposal outlining the intended project, document their field experience, and summarize contributions in a reflective paper. May be take more than once provided project differs.
Prerequisite: Departmental Chair approval.

EDUC-1210 Seminar in Urban Education Policy and Practice
Education policy - laws and rules made in Washington DC, and in state capitals-has a greater impact on classroom practice than ever before. This course will investigate the impact of current policies like No Child Left Behind (NCLB, 2001) on classrooms in New Orleans, where the school system was nearly destroyed by Hurricane Katrina, as well as classrooms in San Antonio. School Visits and field site research will be integral course activities.

EDUC-1331 Survey of Special Education
An introduction to the causes, characteristics, strategies, trends, and issues in teaching students with learning, emotional, behavioral, communication, developmental, and physical disabilities. Identification, assessment, and planning for students with disabilities are discussed in the context of family involvement and cultural and linguistic diversity. This course includes a field placement working with students with disabilities in a range of educational and community settings.

EDUC-2201 Practicum: EC-6
An introduction to the development needs of young children in conjunction with a field placement in one or more early childhood classrooms. Study will include learning and teaching in the preschool.

EDUC-2202 Practicum: Grades 4-8
An introduction to the unique developmental needs of young adolescents in conjunction with a field placement in one or more middle grades classrooms. Study will include students' cognitive, physical, social, and emotional changes and the implications for middle grades curriculum and instruction.

EDUC-2203 Practicum: Grades 8-12
An introduction to the developmental needs of young to late adolescents in conjunction with a field placement in one or more high school classrooms. Study will include learning and teaching in the high school.

EDUC-2204 Practicum: Music EC-6
An introduction to music in the preschool through the fourth grade in conjunction with a field placement in a pre-kindergarten or elementary music classroom.

**EDUC-2205 Practicum: Music 5-12**
An introduction to music in the middle schools and high schools in conjunction with a field placement in a middle or high school band, orchestra, or choral music program.

**EDUC-3301 Field Seminar EC - 6**
A study of literacy learning and instruction in the elementary school that integrates theory (seminars) and practice (field experiences).
Prerequisite: EDUC 2201.

**EDUC-3302 Field Seminar: Grades 4-8**
A study of the history, philosophy, organization, and curricula of middle grades schools in a field-based setting. Topics include programs and curricula that are culturally and developmentally responsive to young adolescent needs such as interdisciplinary teaming, advisory programs, flexible scheduling, activity programs, assessment, and parent/family collaboration and communication. This seminar also includes one or more field placements in a middle grades classroom.
Prerequisite: EDUC 2202.

**EDUC-3303 Field Seminar: Grades 8-12**
A study of teaching and learning in the high school that integrates theory (seminars) and practice (field experiences).

**EDUC-3320 Growing Up In America**
The cognitive, emotional, and social factors influencing children and adolescents in contemporary society will be explored. Emphasis will be placed on practical application of current theories in human development and learning related to the family, school, and peer groups.

**EDUC-3321 Schooling in America**
A study of the American school and its role in contemporary society. Includes an analysis of the literature related to effective schools and successful teaching and learning practices.

**EDUC-3330 Teaching Students with Learning and Behavior Problems**
An introduction to the identification, assessment, and instruction of students who exhibit learning and behavior problems. This course includes weekly three-hour practicum, where emphasis is placed on learning about strategies and specialized methods of instructing students with learning differences.

**EDUC-3332 Reading Difficulties with Diverse Populations**
This course focuses on learning about reading theory, assessment, materials, and strategies for instructing diverse elementary school students with reading difficulties. On-site supervised experiences will focus on conducting assessments and developing instructional plans for students. Credit may not be earned for both EDUC 3332 and 3335.

**EDUC-3333 Positive Behavioral Supports for Students with Challenging Behaviors**
An introduction to the principles of positive behavioral supports and their application to designing effective classrooms for students with challenging behaviors. This course includes a field placement where teachers will learn strategies to reduce behavior challenges of students with and without identified disabilities.

**EDUC-3344 Teaching in the Bilingual (English/Spanish) Classroom**
An introduction to the education of second language learners in the context of bilingual education and English as a second language (ESL) programs. This course includes field experience in working with bilingual and ESL populations in an educational setting. (Also listed as INTL 3344.)

**EDUC-3335 Reading Difficulties in the Middle School**
This course focuses on learning about reading theory, assessment, materials and strategies for instructing middle school students with reading difficulties. On-site supervised experiences will focus on conducting assessments and developing instructional plans for students. Credit may not be earned for both EDUC 3335 and 3332.
Prerequisite: EDUC 3331.

**EDUC-3341 Teaching Science in Elementary School**
This course is designed to introduce pre-service elementary teachers to the principles of curriculum design and instruction for teaching science to elementary school teachers. Pre-service teachers in the course explore relevant research, national and state science standards, and curricular resources in an effort to understand the history, goals, and methods of science education. Class work throughout the semester is organized around the development of a project-based science unit that may be enacted in pre-service teachers' future classrooms.
EDUC-3342 Teaching Science and Mathematics in Middle and High School

This course is designed to introduce undergraduate pre-service teachers to the principles of teaching science and mathematics to middle and high school students. The course will examine the state and national content standards, discuss results from recent research on learning, and explore the implications of standards and research on curriculum design, instruction, and assessment practices in secondary science and mathematics classrooms. Class work throughout the semester is organized around the development of a project-based science unit that may be enacted in pre-service teachers' future classrooms.

EDUC-3361 Mathematics in Elementary School

This course examines key content, strategies and skills as well as methods of teaching and learning mathematics at the Early Childhood - Grade 6 level. The pre-service teachers in this course will reflect on their beliefs about teaching and learning mathematics and beliefs about how children learn mathematics. Assignments will familiarize students with the state and national instructional standards for Early childhood - Grade 6 level mathematics.

EDUC-4100 Senior Seminar

In this capstone course, students will integrate their experiences in the undergraduate course of study in education and the liberal arts and sciences. Individually and collectively, students from EC-4, 4-8, and 8-12 certification levels will examine issues in education from multiple perspectives through seminars and discussions, inquiry and research, and the on-going development of a portfolio. Students will have the opportunity to work closely with a faculty member and peers to organize, integrate, and extend their knowledge of schooling in the United States. This course fulfills the Senior Experience requirement of the University's Common Curriculum.

Prerequisite: senior standing.

EDUC-4338/6338 Teaching Reading in the Middle Grades

The study of literacy and learning in Grades 4-8 with an emphasis on the development of reading and writing processes as well as teaching reading in the content areas.

EDUC-4341 Workshop in Education

Intensive study into some facets of the school curriculum. Equivalence of 3 class hours a week for 1 semester; may be taken more than once provided content differs.

EDUC-4-90 Problems in Education

Independent study in selected areas. One to six semester hours.

Prerequisites: departmental approval and six semester hours of Education.

EDUC-6181 Human Development and Learning Laboratory

Practice in the application of human development and learning theories. The lab project addresses a selected case study's theoretical development stage and the construction of an intervention from learning theories. Monitoring, graphing, and development conclusions will be conducted throughout the semester. Must be taken in conjunction with EDUC 5381.

EDUC-6183 Cognitive Academic Assessment Laboratory

Practice in the administration and scoring of mental abilities tests. Course must be taken in conjunction with EDUC 5382.

EDUC-6184 Behavior Management Intervention Laboratory

Supervised Lab on writing Individualized Education Plans (IEP) and Behavior Management Plans for students with learning and emotional problems. The plans are developed based on actual cases that the student will observe and test. This lab must be taken in conjunction with EDUC 5384.

EDUC-6187 Emotional/Personality Assessment Laboratory

This class consists of various exercises and activities designed to provide students with opportunities to practice scoring, formulate interpretive hypothesis, synthesize and integrate data from a variety of assessment measures, and prepare written reports. Must be taken in conjunction with EDUC 5386.

EDUC-5263 Graduate Intern Seminar: EC-6

This weekly seminar is designed to help interns prepare for and make sense of their classroom-based experiences. Interns engage in action research, develop an exit portfolio, examine student work through use of protocols, and discuss professional readings. To be taken concurrently with EDUC 5963 or EDUC 5636.

EDUC-5273 Graduate Intern Seminar: 8-12

This weekly seminar is designed to help interns prepare for and make sense of their classroom-based experiences. Interns engage in action research, develop an exit portfolio, examine student work through the use of protocols, and discuss professional readings. To be taken concurrently with EDUC 5973.

EDUC-5283 Graduate Intern Seminar: 4-8/Dual
This weekly seminar is designed to help interns prepare for and make sense of their classroom-based experiences. Interns engage in action research, develop an exit portfolio, examine student work through the use of protocols, and discuss professional readings. To be taken concurrently with EDUC 5683 or EDUC 5684

EDUC-6334 Curriculum Inquiry and Practice in Special Education
A study of the historical and recent curriculum development trends; the impact of national curriculum studies and movements; and current issues in curriculum planning and assessment as they relate to creating and modifying curricula for students with academic deficiencies.

EDUC-6335 Teaching Inquiry and Practice in Special Education
Presentation of curriculum and instructional approaches to teach special education and high-risk students. Study of methods, strategies, and materials to remotivate, reinforce, and instruct students with academic deficiencies in the least restrictive setting. Field placement required.

EDUC-6336 Clinical Practice in Special Education
Exploration of programming techniques appropriate for students with learning problems. Topics include interpretation of assessment as it relates to learning styles, individualization of instruction, classroom management, and interaction with teachers, administrators, and aides. On-site observation and participation. Fall semester.

EDUC-6337 Advanced Clinical Practice - Special Education
Demonstration of special education teaching methods and behavior management approaches in the classroom. Study of evaluation procedures to determine program and individual progress in special education and related services. Students will be assigned to a special education classroom for the student teaching experience.

EDUC-6339 Teaching Diverse Learners
An examination of current trends, issues, and influences in teaching and learning in regards to culturally and linguistically diverse (CLD) students with and without disabilities. Applied experience incorporated into the Master of Arts in Teaching's fifth-year internship.

EDUC-6342 Diagnosis and Remediation in Reading
Methods of diagnosing and remediation of reading disabilities in individual pupils. Remedial reading is considered from the viewpoint of prevention as well as correction.

EDUC-5-46 Independent Study
Independent study in selected areas. One to six semester hours. Approval of advisor and instructor.

EDUC-6346 Music Pedagogics
A field-based course dealing with music education in the elementary, middle and high schools.

EDUC-6349 Advanced Music Pedagogics
A field-based course dealing with the administration and supervision of programs in music education in the elementary, middle, and high schools.
Prerequisite: EDUC 5346.

EDUC-6360 Curriculum Inquiry and Practice
A study of the historical and recent curriculum development trends; the impact of national curriculum studies; current issues in curriculum planning and assessment; competing theories of curriculum design; and in-depth study of the content taught in public schools focusing on Early Childhood - Grade 6, Grades 4-8, or Grades 8-12.

EDUC-6361 Teaching Inquiry and Practice
An analysis of the research on teaching and models of teaching, contingency theories of teaching, the role of the teacher as decision maker and the nature of reflective practice. Emphasis is given to how scientific knowledge and context-specific knowledge can be used to inform professional judgment and to create knowledge in use.

EDUC-6362 School Leadership, Supervision, and Evaluation
A study of basic concepts, techniques and practices for understanding school leadership as it affects teacher professionalism and school improvement. Emphasis is given to the teacher's leadership role in collegial and clinical supervision, mentoring, staff development and evaluation. Concepts and practices are examined from political and nonrational perspectives of how schools as organizations work.

EDUC-6360 Pedagogics: Early Childhood-Grade 6
The study and application to teaching and learning of elementary school curriculum and methodology. Experiences in the university and the public schools are used to interpret, apply, and evaluate elementary school teaching and learning practices. Planning and teaching through various modalities and techniques is researched and developed to enhance individual teaching and learning styles.
EDUC-6370 Pedagogics: Grades 4-8 and 8-12
The study and application to teaching and learning of middle grades and secondary school curriculum and methodology. Experiences in the university and the public schools are used to interpret, apply, and evaluate grade-specific teaching and learning practices. Planning and teaching through various modalities and techniques are researched and developed to enhance individual teaching and learning styles at either the middle grades or secondary level.

EDUC-6379 Psychological Assessment: Cognitive and Academic II
The second course in the series of addressing the assessment of student cognitive and academic functioning. Focus is on the analysis of data and conveying results in a meaningful report with relevant recommendations for the intended audience. Prerequisite: EDUC 5382 Psychological Assessment: Cognitive and Academic I

EDUC-6380 Biosocial Basis of Behavior and Emotion
A critical study of disorders of thought, behavior, and emotions throughout the lifespan. The impact of both social and biological factors on abnormal development are examined. The taxonomies to classify emotional and behavioral disorders are presented.

EDUC-6381 Human Development and Learning
A consideration of the major contribution of scientific research to an understanding of human development and learning. Emphasis on the biological, social, cultural, and psychological factors determining individual differences in children and adolescents. The major learning theories are studied in relation to their implications for teaching, and counseling and assessment.

EDUC-6382 Psychological Assessment: Cognitive and Academic I
The first in the two-course sequence in the assessment of cognitive and academic functioning. This course begins with a study of the theory of intelligence and achievement testing. Practice in administration, scoring, interpretation, and report writing using a variety of norm-referenced individual tests. Presentation of assessment strategies to assure reliable and valid appraisal of students from diverse cultural backgrounds.

EDUC-6384 Behavior Management and Special Education
Study of behavior management systems that are based on psychodynamic, cognitive-behavioral, and developmental theoretical orientations. Specific intervention strategies are presented to reduce the behavioral and learning problems that interfere with achievement and psychosocial functioning.

EDUC-6385 Research Methods I - Advanced Statistics
This course, the first in the graduate research methods sequence, covers major statistical procedures and their associated knowledge paradigms, including: 1) descriptive and correlational statistics; 2) inferential statistics; 3) nonparametric statistics; and 4) univariate and multivariate procedures.

EDUC-6386 Psychological Assessment: Emotions and Personality
A study of test and interview-based assessment methods to assess psychosocial development. Focus on how diagnostic formulation is used to prepare comprehensive intervention plans. Intensive training in administration, scoring, and interpretation of projective personality tests. Must be taken in conjunction with EDUC 5187.

EDUC-6388 Neuropsychological Assessment and Remediation
A study of brain-behavior relationships and neuropsychological-based learning disorders most commonly seen in youth. Administration, scoring, and interpretation of neuropsychological tests with emphasis on how to modify instruction to teach and counsel individuals with learning disabilities.

EDUC-6389 Counseling Theory and Methods
Theories of counseling and psychotherapy are presented. Counseling methods and approaches are studied and demonstrated according to the major theoretical paradigms in Psychology. Multicultural issues are discussed in implementing counseling services in schools.

EDUC-6390 Educational Administration and Organization
Administrative theory as a means for directing attention to process and relationships. Organization of American public education. Principles and concepts of educational administration and leadership as related to the major administrative tasks. Knowledge of organizational patterns and administrative process, particularly as needed for the development and operation of special and compensatory education. Communication with the public. Examines components of administration and boards of control. Planning as a prerequisite to the implementation of programs and changes.

EDUC-6391 The School Management Functions
This course deals with the basic management functions required for the successful organization and operation of schools and school districts. An overview of administrative responsibility as it relates to school personnel, students, facilities, and the general public is provided.

EDUC-6392 Administration of the Elementary and Secondary School
A study of administration of elementary and secondary schools with emphasis upon organizing techniques, program management, and student and parent involvement. Stress is upon skills needed by a principal for success at each level.

EDUC-6393 Research Methods - School Administration

This course focuses on statistical and research methods underlying psychological and educational research and analysis including: 1) the philosophy of science underlying research; 2) ethical issues in research; 3) psychometrics; 4) a review of basic statistical procedures and concepts; 5) the use of the microcomputer in research and analysis; and 6) research report preparation.

EDUC-6394 Supervised Practicum - School Administration

Required for certification and/or licensure. Consists of supervised experiences in appropriate institutions and/or agency settings. Credit may vary. Open to a limited number of qualified students in Educational Administration. Practicum placement is in a multi-cultural setting.

EDUC-6396 Curriculum Development

An examination of modern curricular programs and instructional methodologies, analyzing philosophical backgrounds, purposes, and implications for implementation in schools. Studies include a major look at instructional needs, practices, new programs of instruction, how these programs operate at the elementary and secondary school levels, and how they are influenced by national and state entities.

EDUC-6396 Problems in Administration

Students are required to do in-depth reading in a variety of areas, make field trips to observe model programs in school administration, and conduct field studies.

EDUC-6397 Educational Leadership for Mid-Managers

Includes skills needed by administrators for successful leadership performance. Topics include effective communication, time management, coping with stress, motivation techniques, personal and group planning, leadership images, countering intimidation, human factors in administration, problem solving, and delegating. Emphasis is placed upon how to increase the performance of leadership personnel to benefit teachers, students, and the community.

EDUC-6398 School-Community Relations

Study and analysis of social agencies, power structure in communities; resistance to change, interpersonal and group relations, economic and multi-cultural characteristics as they may affect the school; development of criteria for effective school-community relations program.

Prerequisite: Consent of instructor.

EDUC-6636 Clinical Practice in Special Education

Exploration of programming techniques appropriate for students with learning problems. Topics include interpretation of assessment as it relates to learning styles, individualization of instruction, classroom management, and interaction with teachers, administrators, and aids. Activities will include on-site observation and participation. Students will spend extended time in two different field placements.

EDUC-6647 Clinical Practice in Music

A supervised internship in music education in the elementary, middle and high schools.

EDUC-6661 Clinical Practice: Early Childhood-Grade 6

A supervised internship in elementary school sites where comprehensive experiences involving the school and community are provided. Students work with a team of professors, classroom teachers, and other school personnel to research, assess, and assimilate the teaching-learning process. These teams rotate through a variety of settings in the elementary schools.

EDUC-6664 Advanced Clinical Practice: Early Childhood-Grade 6

An internship in elementary school sites where students assume full responsibility for teaching and classroom management in an independent, but supervised, experience for a full semester. To be taken concurrently with EDUC 5337.

EDUC-6671 Clinical Practice: Grades 8-12

A supervised internship in secondary school sites where comprehensive practical experiences involving the school and community are provided. Students work with a team of professors, classroom teachers, and other school personnel to research, assess, and internalize the teaching-learning process. These teams rotate through a variety of settings in the secondary schools.

EDUC-6674 Advanced Clinical Practice: Grades 8-12

An internship in secondary school sites where students assume full responsibility for teaching and classroom management in an independent, but supervised, experience for a full semester. To be taken concurrently with EDUC 5337.
EDUC-6681 Clinical Practice: Grades 4-8
A supervised internship in middle grades classrooms where comprehensive experiences are provided involving the school and community. Students work with a team of professors, teams of classroom teachers, and other school personnel to research, assess, and assimilate the teaching-learning process. To be taken concurrently with EDUC 5370.

EDUC-6684 Advanced Clinical Practice: Grades 4-8
An internship in middle grades schools where students assume full responsibility for curriculum, instruction, assessment, management, and parent/family collaboration in an independent but supervised experience for a full semester. To be taken concurrently with EDUC 5537.

EDUC-6948 Advanced Clinical Practice in Music
An independent, but supervised, internship in music education in the elementary, middle, and high school.
Prerequisite: EDUC 5647.

EDUC-6962 Clinical Practice: Early Childhood-Grade 6
A supervised internship in elementary school sites where comprehensive experience involving the school and community are provided. Students work with a team of professors, classroom teachers, and other school personnel to research, assess, and assimilate the teaching-learning process. These teams rotate through a variety of settings in the elementary schools.

EDUC-6963 Advanced Clinical Practice: Early Childhood-Grade 6
An internship in elementary school sites where students assume full responsibility for teaching and classroom management in an independent, but supervised experience for a full semester.

EDUC-6972 Clinical Practice: Grades 8-12
A supervised internship in secondary school sites where comprehensive practical experiences involving the school and community are provided. Students work with a team of professors, classroom teachers, and other school personnel to research, assess, and assimilate the teaching-learning process. These teams rotate through a variety of settings in the secondary schools. Students will spend an additional 50 hours of field work than students in EDUC 5661.

EDUC-6973 Advanced Clinical Practice: 8-12
An internship in secondary school sites where students assume full responsibility for teaching and classroom management in an independent, but supervised, experience for a full semester.

EDUC-6982 Clinical Practice: Grades 4-8
A supervised internship in middle grades classrooms where comprehensive experiences are provided involving the school and community. Students work with a team of professors, classroom teachers, and other school personnel to research, assess, and assimilate the teaching-learning process. Students will spend an additional 50 hours of field work than students in EDUC 5661.

EDUC-6983 Advanced Clinical Practice: Grades 4-8
An internship in middle grades schools where students assume full responsibility for curriculum, instruction, assessment, management, and parent/family collaboration in an independent but supervised experience for a full semester.

EDUC-899 Problems in Education
A conference course in education. The student pursues independent research in the area in which he/she is concentrating. Credit can vary according to work prescribed. May be taken more than once provided content differs.

EDUC-6098 Thesis Renewal

EDUC-6099 Degree Requirements in Progress

EDUC-6183 Interventions Laboratory
Practice in group and family interventions. Must be taken in conjunction with EDUC 6382.

EDUC-6185 Developmental Assessment Laboratory
Practical experience in administering, scoring, and interpreting various instruments designed for the evaluation of cognitive, adaptive, social-emotional, language, and motor skills of young children will be provided. Preparation of informative written reports that include appropriate recommendations for early childhood interventions will be emphasized. This lab must be taken in conjunction with EDUC 6385.

EDUC-6380 Consultation Theory and Methods
The types of school and mental health consultation are presented. The role of the consultant at all phases of the consultation process is studied. Specific techniques for case, program, and consultee-centered consultation are discussed and simulated.

EDUC-6381 Research Methods II: Design and Application
The second course in the sequence focuses on issues related to research methods for applied settings and the practice of making empirically-supported decisions related to underlying psychological and educational research. Topics addressed include: 1) the philosophy of science underlying research; 2) ethical issues in research, 3) challenges to internal and external validity; 4) research designs for applied settings; and 5) appropriate operations on different types of measurement scales.

EDUC-6382 Group and Family Interventions
Current theories, methods, and applications of group and family interventions are studied. Recognition of the influence of small group dynamics and process on learning and communication are analyzed. Must be taken in conjunction with EDUC 6183.

EDUC-6384 School Psychology Practice
Overview of the legal, ethical, and professional issues in the practice of school psychology. Examination of the role of the school psychologist in culturally and socially diverse educational and community organizations. Exploration of the interrelationship of the school psychologist to the campus student services personnel.

EDUC-6385 Developmental Assessment: Infants and Young Children
Presentation of methods and theory in the developmental/psychoeducational assessment of infants and young children. Mastery of skills to administer and interpret psychological tests to identify cognitive, language, motor, adaptive, and socioemotional problems in the birth-5 age group (with an emphasis on children ages 3-5). Community/family/school collaboration and educational/behavioral interventions for young children will be discussed. Must be taken in conjunction with EDUC 6185.

EDUC-6386 Supervised Practicum - School Psychology
Required for certification and/or licensure. Consists of supervised experiences in appropriate institutions and/or agency settings. Credit may vary. Open to a limited number of qualified students in School Psychology. Practicum placement is in a multi-cultural setting.

EDUC-6387 Educational Planning for the Exceptional Student
Seminar and applied practice based upon state and federal education laws and their implementation in the school setting. Includes principles and methods to write psychoeducational evaluation reports, treatment plans, and individualized education plans (IEP). Lecture, case study, and field assignment.

EDUC-6388 Legal and Ethical Issues
Advanced seminar and applied practice based upon state and federal regulations, compliance standards, and their implementation in the public school setting. Specific cases are utilized to study the legal and ethical requirements for professionals in education and specifically in school psychology. Collaboration with other professionals is emphasized.

EDUC-6389 School Law and Finance
Reviews legal bases for operating schools, methods of financing, and fiscal control. Includes sources of revenue for schools, funds management, taxation, and the laws governing school finance. Emphasis is placed upon school law dealing with student and teaching rights and liabilities, statute and case law relative to education, and knowledge of law essential to proper administration of schools.

EDUC-6391 Advanced Problems in Administration
Problem solving and inductive inquiry themed to live and persistent problems of administrative practice through case study and simulation.

EDUC-6392 Supervision and Evaluation of Teaching
Emphasis is on supervision as a means to improve teaching by promoting reflection, action research, and enhanced staff development. Students review the research on teaching and examine philosophical and moral issues. Clinical supervision, portfolio development, and other evaluation techniques are developed and practiced.

EDUC-6393 Problems in Practice
This course will help students to link theories of school leadership with actual administration practice during their last semester of the two-year program, while they are immersed in their internship. In solving real and simulated problems, students will have the opportunity to practice and refine skills that they have begun to develop. Problems will be aligned to NCATE standards that require field experience so that students can document their solutions as evidence in their portfolios.
EDUC-6688, 6689 Thesis

EDUC-6693 Internship
Field work in school administration under the direction and supervision of both a public school administrator and a university staff member.

EDUC-7380 School Psychology Internship: Part I
Supervised internship in the practice of school psychology. Experience provides opportunities for counseling, assessment, and consultation in school systems and community agencies.

EDUC-7381 School Psychology Internship: Part II
Supervised internship in the practice of school psychology. Experience provides opportunities for counseling, assessment, and consultation in school systems and community agencies.

EDUC-7680 School Psychology Internship: Part I
Supervised internship in the practice of school psychology. Experience provides opportunities for counseling, assessment, and consultation in school systems and community agencies. (600 clock hours)

EDUC-7681 School Psychology Internship: Part II
Supervised internship in the practice of school psychology. Experience provides opportunities for counseling, assessment, and consultation in school systems and community agencies. (600 clock hours)

Faculty

SHARI ALBRIGHT, Ed.D., Norine R. Murchison Professor of Practice; Chair
LAURA M. ALLEN, Ph.D., Associate Professor
ANGELA BREIDENSTEIN, Ed.D., Associate Professor
COURTNEY CRIM, Ed.D., Assistant Professor
ROCIO DELGADO, Ph.D., Associate Professor
BEATRIZ FONT STRAWHUN, M.S., Clinical Mathematics Educator
JEFFREY NORDINE, Ph.D., Assistant Professor
PATRICIA J. NORMAN, Ph.D., Associate Professor
ELEANOR TERRY ROBERTSON, Ph.D., Associate Professor
Courses of Study 2011 - 2012

English

Requirements

THE MAJOR

The requirements for the degree of Bachelor of Arts with a major in English are as follows:

I. The common curriculum

II. Departmental requirements:

A. Thirty-nine (39) hours in the Department of English

B. Lower-division requirements:

1. At least fifteen (15) hours of lower-division courses including:
   - ENGL 2301 (British Literature: Epic to Romantic)
   - ENGL 2302 (British Literature: Romanticism and After)
   - ENGL 2303 (American Literature: Colonization to 1900)
   - ENGL 2304 (American Literature: New Realism Through the Moderns)
   - ENGL 2311 (Literary Methods); required of all English majors and must be completed by the end of the fifth semester; limited to majors, minors, and prospective majors.

C. Upper-division requirements:

1. At least twenty-one (21) hours of upper-division courses, including:
   a. Three (3) hours of Shakespeare (ENGL 3360 or 3361);
   b. Six (6) hours of literary periods to 1660 excluding ENGL 3360 and 3361: 3355, 3356, 3357, 3358, 3359, 3362, 3363, 3364, 3365, 3366, 3367, 3368, 3369, 3370, 3371, 3372, 3373, 3375, 3380, 3381, 3383, 3385, 3387, or other appropriate courses.
   c. Six (6) hours of literary periods from 1660 to 1900, three (3) in American Literature and three (3) in British Literature.
      a. American literature courses include 3370, 3371. Other courses, when appropriate, may satisfy this requirement.
      b. British literature courses include 3384, 3385, 3366, 3340, 4304, 4321, 4322. Other courses, when appropriate, may satisfy this requirement.
   d. Six (6) hours in 20th century or contemporary literature: ENGL 3320, 3321, 3322, 3327, 3329, 3367, 3368, 3372, 3373, 3375, 3380, 3381, 3383, 3385, 3387, or other appropriate courses.

D. Another three (3) hours must be taken from either lower- or upper-division courses.

THE MINOR

A minor in English consists of a minimum of 21 semester hours of English above ENGL 1302, of which at least 12 semester hours must be upper-division.

THE MINOR IN CREATIVE WRITING

The minor in Creative Writing is designed for the student who wishes to pursue an emphasis in creative writing to complement a major in another area.

The requirements for the minor are as follows:

I. Twelve (12) hours in creative writing including:
   - ENGL 3302 (Fiction Writing)
   - ENGL 3303 (Poetry Writing)
   - ENGL 3312 (Advanced Fiction Writing)
   - ENGL 3313 (Advanced Poetry Writing)

II. Six (6) additional hours from the following:
   - COMM 3340 (Media Writing: Magazine Writing)
   - COMM 3340 (Media Writing: Scriptwriting)
   - ENGL 3316 (Writing Internship)
   - ENGL 3327 (Contemporary Literature)
   - ENGL 3335 (Rhetorical Analysis)
   - ENGL 3375 (Postmodern Literature)
   - ENGL 4305 (Topics in Creative Writing)
   - ENGL 4323 (Studies in American Literature: The American Short Story)
   - THTR 3380 (Playwriting)
When departments offer a relevant "special topics" or "variable content" course, the Chair of the English Department may designate such a course as meeting a relevant requirement for the minor.

THE SENIOR THESIS AND HONORS PROGRAM

The senior thesis may be either a substantial piece of creative writing or an in-depth, original, analytical argument of approximately 40 pages, using primary and secondary research. The 6-hour thesis program (ENGL 4398 and 4399) may be chosen by any student with the consent of an appropriate instructor, and it is required of all students wishing to graduate with departmental Honors.

A student wishing to graduate with Honors in English must do all of the following:

1. Maintain an overall grade point average of at least 3.33.
2. Maintain a grade point average of at least 3.5 in English.
3. Enroll in ENGL 4398 (in the first semester of the senior year) and 4399 (in the second semester of the senior year) with an appropriate faculty member who has approved the student's project and has agreed to serve as the student's thesis adviser.
4. Complete ENGL 4398 and 4399 with a grade of "A."
5. Declare his or her intention to be considered for Honors by submitting a written application to the chair of the department, along with a formal recommendation from the thesis adviser.
6. Submit a completed draft of the senior thesis to the thesis adviser and to a second faculty reader approved by the departmental Honors committee.
7. Submit the completed senior thesis to the departmental Honors committee, along with formal recommendations from the thesis adviser and second reader.
8. Make an oral presentation of the senior thesis to the department.

After evaluating the quality of the senior thesis, the Honors committee will decide whether to confer or not to confer departmental Honors.

A full description of the Honors program is available in the English department office.

Courses

ENGL-1301 Introduction to Film Studies

This course is an introduction to the artistic, cultural, and scholarly importance of film. The course focuses on the development of film as a complex art form, the evolution of narrative as part of a formal system, the development of the industry and film genres, critical and cultural approaches to film analysis, and the construction of the audience. Students will read excerpts from primary texts as well as more general texts dealing with film interpretation and criticism. (Also listed as ARTH 1301, COMM 1302, FILM 1301, and ML&L 1301.)

ENGL-1302 Writing Workshop

A course in composition that stresses expressive, analytical and persuasive writing with emphasis on rhetorical strategies in relation to aims and audience. The course is designed to refine student skills in critical reading, analysis, and judgment.

ENGL-1303 Intermediate Writing

Students who have exempted from ENGL 1302 with a score of 4 or 5 on the Language and Composition AP examination or a score of 5 on the Literature and Composition AP Examination but who wish to take 1302 may register for this section and attend a 1302 section after receiving the consent of the instructor. Students registered for 1303 will be expected to do work beyond the requirements of 1302.

Prerequisite: consent of instructor.

ENGL-1306 Introduction to Comparative Literature

Examines with a cross-cultural perspective texts from around the world. The course provides an introduction to the interdisciplinary field of comparative literature. (Also listed as CMLT 1306.)

ENGL-2300 International Cinema

This course focuses on the cultural and critical analysis of international films as an expression of particular artistic genres and/or styles within specific historical, ideological, and cultural contexts. Films selected have achieved wide, critical acclaim; others reveal unique and important visions of human experience; while still others are selected for their political, ideological, or sociological significance. Students should develop an awareness that the medium of film has a history and that its history is not confined to national boundaries. (Also listed as ARTH 2301, COMM 2300, FILM 2301, and ML&L 2301.)

ENGL-2301 British Literature: Epic to Romantic

An examination of the literary perspectives of cultural changes in English from the early medieval period to the beginnings of Romanticism.

ENGL-2302 British Literature: Romanticism and After

An examination of the literary expressions of cultural changes from the French Revolution through the mid-20th century, with a primary concentration on British writers, although other writers and texts may be used to broaden the course's perspective.

ENGL-2303 American Literature: Colonization to 1900

An examination in the literary expressions of cultural changes in America from the early explorers and colonists through the end of the nineteenth century.
ENGL-2304 American Literature: New Realism through the Moderns
An examination of the literary expressions of cultural changes in America from 1900. Special attention is paid to the relation between the new spirit of America after the first World War and the resultant formal and thematic adaptations in literature.

ENGL-2305 World Literature
A course designed to complement the American and British Literature offerings. Includes, primarily, texts from European, Asian, African, and Central and South American cultures written in the past 2,000 years in all major genres.

ENGL-2311 Literary Methods
Introduction to the practice of literary studies. Special attention will be paid to evaluating and interpreting both primary literature (in its major genres) and a variety of secondary critical arguments. Frequent writing assignments will include major essay that demonstrates an awareness of important critical work on the subject. Topics vary.

ENGL-2340 Creative Thinking and the Artistic Process
This course encourages students to synthesize a theoretical and experiential approach to the creative process as studied through the visual arts, music, creative writing, and theatre. Students enter into the creative process as a means to develop creative self-expression, aesthetic sensibility, and an understanding of the arts. The nature and drive of artistic endeavor is explored through studies of the lives of significant thinkers and artists, examinations of art works, guest lectures, and projects. Students will engage in activities and projects that will enable them to access and develop their own creative thinking skills in concert with traditional, analytic modes. (Also listed as ART 2314, GNED 2340, MUSC 2340, and THTR 2340.)

ENGL-2373 African American Literature: Survey
Survey of African American literature from the early slave narrative to the present. Examines the history, culture, and intellectual traditions informing this literature, as well as the political and aesthetic debates that shaped the tradition.

ENGL-3301 Introduction to Non-Fiction Writing
Study in the theory, technique, and practice of non-fiction writing.

ENGL-3302 Fiction Writing
Study in the forms of fiction with a primary focus on writing the short story.

ENGL-3303 Poetry Writing
Study of the theory, techniques, and practice of poetry writing.

ENGL-3304 Writing Tutors/Writing Workshop
Writing tutors assigned by permission of instructor to individual sections of ENGL 1302. At the discretion of the instructor, tutors assist students in the process of producing written essays. Office hours and class attendance required.
Prerequisite: consent of instructor.

ENGL-3312 Advanced Fiction Writing
Extensive writing in forms and techniques of fiction. May be repeated for up to 6 hours credit with the permission of instructor.
Prerequisites: ENGL 3302 and consent of instructor.

ENGL-3313 Advanced Poetry Writing
Extensive writing in forms and techniques of poetry. May be repeated for up to 6 hours credit with permission of instructor.
Prerequisites: ENGL 3303 and consent of instructor.

ENGL-3314 Advanced Exposition and Argument
Intensive writing workshop concentrating on individual projects and focusing on the traditional rhetorical principles of invention, structure, and style.
Prerequisite: ENGL 1302 or equivalent or consent of instructor.

ENGL-3315 Advanced Writing for the Professions
Intensive writing workshop concentrating on individual writing concerns with relation to specific professions. Focus on audience, structure, and professional expectations.

ENGL-3316 Writing Internship
Supervised work on individually specified projects under the supervision of departmental faculty. Each project involves work on literary publications. The number of internships varies with available opportunities. Pass/Fail only.

ENGL-3320 Modern Drama
Study of trends in dramatic literature from Realism to the present. (Also listed as THTR 3336.)

ENGL-3321 Contemporary Drama
Study of trends in dramatic literature from World War II through the present as manifested in the United States, Great Britain, Europe, and representative Third World countries. (Also listed as THTR 3337.)

ENGL-3322 Greek and Roman Drama
Study of trends in Greek and Roman dramatic literature, with attention to social, cultural, and political contexts. Topics will include the development of dramatic conventions and traditions of reception and performance. (Also listed as CLAS 3303 and THTR 3335.)
Prerequisite: sophomore standing or consent of instructor.

ENGL-3327 Contemporary Literature
Selected studies in contemporary prose fiction, primarily American and Canadian short stories and novels. May be repeated for up to 6 hours when topics vary.

ENGL-3329 Jewish Literature
A survey of Jewish writers, including Kafka, Babel Singer, Sholem Aleichem, Roth, Bellow, Malamund, Paley, and Wiesel, in response to Jewish literary and cultural traditions, rooted in Hebrew scripture.
Prerequisite: 6 hours of English above 1302.

ENGL-3334 Rhetorical Criticism
Examines approaches to the critical analysis of rhetorical discourse with emphasis on methodological issues as well as techniques for doing scholarly criticism. (Also listed as HCOM 3350.)

ENGL-3335 Rhetorical Analysis
Introduction to rhetoric as a mode of analysis as it applies to discursive modes and genres. (Also listed as HCOM 3352.)
Prerequisite: 6 hours in English above 1302.

ENGL-3339 Philosophy of Literature
In this course we will investigate several philosophical issues raised by literature, such as what exactly literature is, the nature of literary authorship and interpretation, why is it we respond emotionally to fictional characters, and what the value of engaging with literature is. (Also listed as PHIL 3360.)
Prerequisite: PHIL 1301 or 6 hours in English.

ENGL-3346 History of the English Language
Traces the history of modern English varieties of language from their common Indo-European origin. Emphasis upon the relation between cultural changes and changes in English vocabulary, grammar, pronunciation, and spelling.
Prerequisite: 6 hours in English above 1302.

ENGL-3356 Readings in Old English Literature
A survey of the major genres of Old English literature in their cultural context: heroic poetry, elegies, Biblical narratives, riddles, the saint's life, homilies, and theological tractates.
Prerequisite: ENGL 2301 or consent of instructor.

ENGL-3357 English Literature of the Late 14th Century
A survey of the works of the major authors in late medieval England: Geoffrey Chaucer, the Gawain poet, William Langland, John Gower, Sir Thomas Malory, as well as the anonymous authors of some of the moralities and mystery plays.
Prerequisite: ENGL 2301 or consent of instructor.

ENGL-3358 Medieval and Early Renaissance Drama
A study of English drama from the liturgical beginnings through Christopher Marlowe. Within a rich historical, Biblical, cultural, and aesthetic context, the course emphasizes the quam quaeritis trope, miracles, mysteries, moralities, interludes, and tragedies.
Prerequisite: ENGL 2301 or consent of instructor.

ENGL-3359 Medieval Literature
Study of literature from the European Middle ages, which may include such areas as prose, poetry, drama, and historical background. May be repeated for up to six hours when topics vary.
Prerequisite: ENGL 2301 or consent of instructor.

ENGL-3360 Shakespeare
An introduction to Shakespeare's plays with special attention to genre, periodization, and topical issues that situate Shakespeare's plays within their cultural context. Topics will vary and the course may be repeated for up to six hours of credit when topics vary.
Prerequisite: ENGL 2301 or consent of instructor.

ENGL-3362 Early Modern British Literature, 1485-1603
A survey of poetry and prose from More to Shakespeare, roughly corresponding to the consolidation of the Tudor monarchy and emphasizing the discursive, political, and cultural contexts of emergent English Renaissance literary production.
Prerequisite: ENGL 2301 or consent of instructor.

ENGL-3363 Early Modern British Literature, 1603-1660
A survey of poetry and prose from Donne to Marvell emphasizing the effects of monarchical succession, emergent capitalism, colonialism, scientism, religious controversy, and revolutionary conflict on British literature of the earlier seventeenth century.
Prerequisite: ENGL 2301 or consent of instructor.

ENGL-3364 British Literature, 1660-1798
A study of poetry, prose, and drama from the Restoration through the eighteenth century, emphasizing the flourishing of satire, the rise of the novel, the emergence of sentiment, and the increasing literary activities of women.
Prerequisite: ENGL 2301 or consent of instructor.

ENGL-3365 19th-Century British Poetry
Study of selected poetry from nineteenth-century England. Emphasis on major authors and movements from the Romantics, the Victorians, or the Edwardians.
Prerequisite: ENGL 2302 or consent of instructor.

ENGL-3366 19th-Century British Fiction
Study of selected fiction from nineteenth-century Britain. Emphasis on major authors and movements from the Romantics, The Victorians, or Edwardians. May be repeated when topics vary.
Prerequisite: ENGL 2302 or consent of instructor.

ENGL-3367 British Literature, 1900-Present
Studies in major British writers and literary movements. May be repeated when topics vary.
Prerequisite: ENGL 2304 or consent of instructor.

ENGL-3370 Early American Literature
Examines the literature of the colonies and early republic, up to 1830. Considers literature in the light of Puritan and Enlightenment attempts to build a nation as well as the social conflicts that undermined those projects.
Prerequisite: ENGL 2303 or consent of instructor.

ENGL-3371 American Literature of the 19th Century
Study of particular periods, literary movements, authors, themes, or genres.
Prerequisite: ENGL 2303 or consent of instructor.

ENGL-3372 American Literature, 1900-Present
Studies in major American writers and literary movements. May be repeated when topics vary.
Prerequisite: ENGL 2304 or consent of instructor.
ENGL-3375 Postmodern Literature
Major authors and issues involved with the postmodern aesthetic.
Prerequisite: ENGL 2302, 2304, or consent of instructor.

ENGL-3380 The Modern Novel
Study of influence of the changing concepts of time, space, and personality on the British and American novel after 1915. Works by Joyce, Woolf, Lawrence, Hemingway, Faulkner, and others.
Prerequisite: ENGL 2302, 2304, or consent of instructor.

ENGL-3381 Modern Poetry
Examines the major figures and movements of poetry written in English during the twentieth and twenty-first centuries.
Prerequisite: ENGL 2302, 2304, or consent of instructor.

ENGL-3383 The British Novel
Study of the development of the novel from Defoe through the twentieth century.
Prerequisite: ENGL 2301, 2302, or consent of instructor.

ENGL-3384 The American Novel
Evolution of the American novel in its historical and cultural setting.
Prerequisite: ENGL 2303, 2304, or consent of instructor.

ENGL-3385 The Continental Novel
Study of a selection of novels in translation from French, Russian, and German literatures. Includes Balzac, Hugo, Dostoevsky, Koestler, Hesse, and Boll.
Prerequisite: ENGL 2302, 2304, 2305, or consent of instructor.

ENGL-3386 Theory of the Novel
Evolution of the novel from its roots in the seventeenth and eighteenth centuries to its modern flowering in the twentieth. Includes Fielding, Austen, Eliot, Dickens, Hardy, Conrad, James, Woolf, and Faulkner.
Prerequisite: ENGL 2311 or consent of instructor.

ENGL-3-90 Directed Studies - Junior Level
Independent Study. Discretion of Instructor.
Prerequisite: consent of instructor.

ENGL-4301 Geoffrey Chaucer
Examines Chaucer's poetry, emphasizing in separate semesters either the dream poetry and the Troilus, or The Canterbury Tales.
Prerequisite: ENGL 2301 or consent of instructor.

ENGL-4302 Elizabethan and Jacobean Playwrights
Non-Shakespearean drama from the opening of professional theaters (1576) until the closing under Cromwell (1642). Includes Kyd, Marlowe, Jonson, Webster, Middleton, and Rowley, Beaumont and Fletcher, and Ford. Works studied in relation to social and theatrical conditions and contemporary literary criticism.
Prerequisite: ENGL 2301 or consent of instructor.

ENGL-4303 Milton
Examines Milton's major poetry and prose in historical, theological, and political contexts.
Prerequisite: ENGL 2301 or consent of instructor.

ENGL-4304 Restoration Drama
Examines English drama from 1660 to 1800. Covers heroic drama, tragedy, comedy, and satire.
Prerequisite: ENGL 2301 or consent of instructor.
ENGL-4305 Topics in Creative Writing
Extensive writing in a specific form or genre. May be repeated once when topics vary.
Prerequisite: ENGL 3302 or consent of instructor.

ENGL-4320 Studies in Early Modern British Literature
Selected topics concerning the intersection of literature and culture in sixteenth and earlier seventeenth-century England in the context of current critical theory and debate. May be repeated when topics vary.
Prerequisite: ENGL 2301 or consent of instructor.

ENGL-4321 Studies in 18th-Century British Literature
A study of selected topics in the literature and culture of Restoration and eighteenth-century Britain in the context of current critical theory and debate. May be repeated when topics vary.
Prerequisite: ENGL 2301 or consent of instructor.

ENGL-4322 Studies in 19th-Century British Literature
Study of the literature, literary movements, history, and criticism of nineteenth-century England. Topics vary from the Romantics to the Victorians to the Edwardians. May be repeated when topics vary.
Prerequisite: ENGL 2302 or consent of instructor.

ENGL-4323 Studies in American Literature
Course examines selected topics, genres, and cultural issues of American literature. Includes the Harlem Renaissance; Theory and Practice of American Gothic. May be repeated when topics vary.
Prerequisite: appropriate survey or consent of Instructor.

ENGL-4325 Seminars in Literary Periods
Examines issues and authors within their specific historical periods. May be repeated when topics vary.
Prerequisites: appropriate survey and ENGL 2311 or consent of instructor.

ENGL-4326 Seminar on Individual Authors
In-depth study of one or more major figures. May be repeated when authors vary.
Prerequisites: appropriate survey and ENGL 2311 or consent of instructor.

ENGL-4327 Literature of the Holocaust
Examines cultural, generational, and literary perspectives of the Holocaust.
Prerequisite: ENGL 2311 or consent of instructor.

ENGL-4330 Studies in Literary and Cultural Theory
Selected topics and issues in contemporary theory, examining major texts of feminism, new historicism, marxism, deconstructionism, psychoanalysis, and literary canons and traditions. May be repeated when topics vary.
Prerequisite: ENGL 2311 or consent of instructor.

ENGL-4-90 Directed Studies - Senior Level
Independent study. Discretion of Instructor.
Prerequisite: consent of Instructor.

ENGL-4398 Senior Thesis I
Individual research and scholarly investigation under faculty supervision leading to the preparation of a Senior Thesis. To be taken only by Senior Honors students in the first semester of their senior year.
Prerequisite: consent of Instructor.

ENGL-4399 Senior Thesis II
Individual research and scholarly investigation under faculty supervision leading to the preparation of a Senior Thesis. To be taken only by students in the second semester of their senior year.

Prerequisite: ENGL 4398.

Faculty

VICTORIA AARONS, Ph.D., O.R. and Eva Mitchell Distinguished Professor of Literature; Chair

PETER H. BALBERT, Ph.D., Professor

JENNY BROWNE, M.F.A., Assistant Professor

KELLY CARLISLE, Ph.D., Assistant Professor

DUANE COLTHARP, Ph.D., Associate Professor; Associate Vice President for Academic Affairs

MICHAEL FISCHER, Ph.D., Professor; Vice President for Faculty and Student Affairs

JUDITH L. FISHER, Ph.D., Professor

ANGELA FLORSCHUETZ, Ph.D., Assistant Professor

COLEEN GRISSOM, Ph.D., Professor

ANDREW PORTER, M.F.A., Associate Professor

DAVID RANDO, Ph.D., Assistant Professor

JEFFREY RUFO, Ph.D., Assistant Professor

WILLIS A. SALOMON, Ph.D., Associate Professor

MICHAEL SOTO, Ph.D., Associate Professor

CLAUDIA STOKES, Ph.D., Associate Professor

BETSY TONTIPLAPHOL, Ph.D., Associate Professor

ABRAM VAN ENGEN, Ph.D., Assistant Professor

ABIGAIL ZITIN, Ph.D., Assistant Professor
Courses of Study 2011 - 2012

Entrepreneurship

Overview

The Entrepreneurship minor is designed to cultivate, coordinate, and integrate Trinity’s diverse resources for the development and application of more creative entrepreneurial behavior and achievement. It builds on the overlap of three clusters of programs: arts and humanities, science and engineering, and business and social sciences.

The Entrepreneurship minor provides students an interdisciplinary approach to the process of creativity and entrepreneurship. This minor focuses on the process of creativity, opportunity identification and evaluation, design and innovation, financing, strategy, marketing, and new venture development. This minor offers an opportunity for students to form multidisciplinary entrepreneurship project teams (E-Teams) for transforming creative ideas into practical realities, and to interact with alumni entrepreneurs.

This minor requires twenty-one hours of coursework with at least nine hours at the upper-division level.

Students who wish to go beyond the minimum required of this minor should investigate the possibility of an Interdisciplinary Second Major and prepare an expanded plan that integrates more of these courses. A form that describes the Interdisciplinary Second Major is available in the Office of the Registrar.

Requirements

THE MINOR

Core Courses. From this list select twelve hours of coursework, including the specified section of GNED 1300 or GNED 2340 and ENTR 3340, 3341, and 4193.

GNED 1300 (First Year Seminar: Creativity and Entrepreneurial Behavior)
ENTR 2190 (Exploring Entrepreneurial Opportunities)
GNED 2340 (Creative Thinking and the Artistic Process)
ENTR 3-90 (Directed Studies - Junior Level)
ENTR 3340 (Innovation, Design, and Entrepreneurship)
ENTR 3341 (Entrepreneurial Planning and Strategies)
ENTR 4-90 (Directed Studies - Senior Level)
ENTR 4193 (Capstone - E-Team Project)

Elective Courses. Along with members of the advisory committee, students will select three elective courses that meet the following criteria: (1) the specific courses selected should encourage students to develop essential skills for their entrepreneurial development or lead students to investigate broader areas of social concern; and (2) the courses must be approved by the advisory committee of the minor.

Courses

ENTR-2190 Exploring Entrepreneurial Opportunities

This course focuses on the process of recognizing entrepreneurial opportunities. In this course students learn various ways to identify an opportunity such as observing trends, solving a problem, and finding gaps in the market place. Students learn how to analyze economic and social forces, technological advances, and political and regulatory changes to develop entrepreneurial opportunities. May be repeated three times.

Prerequisite: GNED 2340 (also listed as ART 2314, ENGL 2340, MUSC 2340, and THTR 2340) or consent of instructor.

ENTR-3-90 Directed Studies: Junior Level

Independent study under faculty supervision with emphasis on the latest developments in entrepreneurship and preparation of the E-Team projects. May be repeated up to three hours.
Prerequisites: GNED 2340 (also listed as ART 2314, ENGL 2340, MUSC 2340, and THTR 2340) and junior standing, or consent of instructor.

ENTR-3340 Innovation, Design, and Entrepreneurship

This course focuses on the process of innovation and design for entrepreneurial venture development. In this course students learn to develop a persuasive structure to make innovative ideas attractive and defensible. Design is an essential step in transforming innovative ideas into practical reality. This course focuses on the use of design as a form of expression, including development of functional prototypes of innovative ideas potentially leading to entrepreneurial ventures. In this course students are required to form multidisciplinary design teams. Students develop the knowledge, skills, and behaviors related to developing innovative ideas, design methodologies, use of appropriate information, materials, tools, and technology for entrepreneurial ventures.

Prerequisites: GNED 2340 (also listed as ART 2314, ENGL 2340, MUSC 2340, and THTR 2340) and junior standing, or consent of instructor.

ENTR-3341 Entrepreneurial Planning and Strategies

This course focuses on entrepreneurial planning and strategies with emphasis on the areas of financing, management, and marketing. Major topics include attracting seed and growth capital from sources such as individuals, venture capital, investment banking, and government and commercial banks; creating marketing plans for a new venture; entrepreneurial or opportunity oriented management, strategic control, operational functions, and organizational management; short- and long-range planning; and measurement of economic performance.

Prerequisite: ENTR 3340.

ENTR-4-90 Directed Studies - Senior Level

Independent Study under faculty supervision with emphasis on completing the major project of the entrepreneurship program. May be repeated for up to three hours.

Prerequisites: ENTR 3340 and senior standing.

ENTR-4193 Capstone for E-Team Project

This is the capstone course for students in the entrepreneurship program, a course in which all elements of the program are tied together. In this course each E-Team project group develops a comprehensive business or operational plan for its entrepreneurial venture. Students are required to defend their strategic plan for a panel of potential investors. This course incorporates wisdom, insight, and experiences for successful entrepreneurs and explains the benefits and risks involved in the proposed entrepreneurship ventures.

Prerequisites: ENTR 3341 and senior standing, or consent of instructor.

Faculty

RICHARD V. BUTLER, Ph. D., Professor, Economics
L. BROOKS HILL, Ph. D., Professor, Human Communication and Theatre
GERALD N. PITTS, Ph. D., Caruth Distinguished Professor, Computer Science
CLAUDIA SCHOLZ, Ph. D., Coordinator of Research Programs
MAHBUB UDDIN, Ph. D., Professor, Engineering Science; Chair
DANIEL T. WALZ, Ph. D., Professor, Business Administration
Environmental Studies

Overview

Environmental Studies is an interdisciplinary major that focuses on the environment and humans' relationship with it. The program incorporates a variety of approaches in the arts and humanities, the natural sciences, social analysis, and social policy. Students may choose an Environmental Studies major to explore the environment from a scientific perspective or to prepare for a career in one of the many fields that seek to monitor, shape, or interpret our relationship with it. Environmental Studies majors have extensive interaction with the natural world in research, class projects, and internships.

Requirements

THE MAJOR

The requirements for the degree of Bachelor of Arts with a major in Environmental Studies are at least 43 semester hours as follows:

I. The Introductory Course (3 semester hours):

   ENVI 1301 (Introduction to the Environment)

II. Fundamental skills (21 semester hours):

   ANTH 2357 (Humans and the Environment)
   BIOL 1311 (Integrative Biology)
   CMLT 2350 (Science Fiction and the Environment) OR
   ART 2395 (Outdoor Studio) OR
   GNED 3391 (Special Topics in General Education: Literature and the Environment)
   ECON 1311 (Principles of Microeconomics)
   ECON 3330 (Economics and the Environment) (also listed as URBS 3330)
   GEOS 1304 (Environmental Geology)
   PHIL 2350 (Environmental Ethics)
   URBS 3330 (Economics and the Environment) (also listed as ECON 3330)

III. Area Concentration (16-25 semester hours):

   Environmental Science
   Environmental Policy
   Environmental Arts and Humanities

A. Environmental Science: (16-25 semester hours)

   The Environmental Science concentration prepares students for graduate programs in environmental science and for careers in laboratory and field monitoring and evaluation of environmental data.

   CHEM 1318 (General Chemistry)
   CHEM 1118 (General Chemistry Laboratory)

   And Concentration Courses completing one of the following areas:

1. Biology

   ANTH 2310 (Human Evolution)
   BIOL 1111 (Introductory Biology Laboratory)
   BIOL 1312 (Integrative Biology II)
   BIOL 1212 (Methods for Biological Problem Solving)
   and 3 of the following:
   BIOL 3434 (Ecology)
   BIOL 4351 (Conservation Biology)
   BIOL 3426 (Vertebrate Evolution)
   BIOL 3427 (Plant Biology)
   BIOL 3440 (Animal Behavior)
2. Geosciences (4 of the following):
   - GEOS 3300 (Oceanography)
   - GEOS 3411 (Hydrology)
   - GEOS 3400 (Earth Materials)
   - GEOS 2304 (Earth Surface Processes)
   - GEOS 2401 (Earth History)
   - GEOS 3308 (GIS and Remote Sensing)

3. Physics (4 of the following):
   - PHYS 1309 (General Physics I)
   - PHYS 1310 (General Physics II)
   - PHYS 2311 (Introduction to Biophysics)
   - PHYS 3312 (Geophysics)
   - PHYS 3321 (Statistical Physics and Thermodynamics)
   - PHYS 3322 (Classical Mechanics and Nonlinear Dynamics)

4. Engineering (4 of the following):
   - ENGR 2311 (Mass and Energy Balances)
   - ENGR 2359 (Fundamentals of Environmental Engineering)
   - ENGR 3327 (Thermodynamics)

B. Environmental Science: (16-25 semester hours)

   The Environmental Policy concentration is intended for students seeking an interdisciplinary approach to the evaluation of environmental policy, environmental justice, and environmental issues. It prepares students for graduate programs in public policy and other social sciences and for careers in nonprofit, education, government, and consulting organizations.

   ENVI 2401 (Environmental Science Methods and Analysis) (may be exempted with completion of two other laboratory courses)

   And 1 course from each of the following areas:

   1. Analytical Approaches: Economics:
      - BUSN 3338 (Government Regulation of Business) (also listed as ECON 3338)
      - ECON 3323 (Economics of the Government)
      - ECON 3334 (Urban Economics) (also listed as URBS 3334)
      - ECON 3338 (Government Regulation of Business) (also listed as BUSN 3338)
      - URBS 3334 (Urban Economics) (also listed as ECON 3334)

   2. Analytical Approaches: Political Science
      - PLSI 3313 (Policy Analysis)
      - PLSI 3314 (Bureaucratic Politics)
      - PLSI 3316 (Comparative Urban Governance)

   3. Perspectives: Case Studies I
      - ANTH 3367 (Indigenous Peoples)
      - ANTH 3464 (Morality in the Marketplace)
      - ANTH 4354 (Seminar on Primatology)

   4. Perspectives: Case Studies II
      - ENVI 4309 (Special Topics in Environmental Policy)
      - SOCI 4362 (Globalization and International Development)
      - SOCI 3340 (Urban Geography)

   5. Applications: ENVI 4395 Environmental Internship

C. Environmental Arts and Humanities: (16-25 semester hours)

   The Environmental Arts and Humanities concentration offers students the opportunity to develop their interpretive, expressive, and critical skills and talents in areas of art, literature, and the humanities in the context of environmental issues.

   ENVI 2401 (Environmental Science Methods and Analysis) (may be exempted with completion of two other lab courses)

   And 5 courses from the following (*these classes may be taken as Concentration Courses if not included as a Required Foundation Course):

   *ART 2395 (Outdoor Studio)
   *ARTH 3352 (Nineteenth-Century Architecture and Urbanism)
   *ARTH 3364 (Twentieth-Century Architecture and Urbanism)
   *CMLT 2301 (World Literature and the Environment)
   *ENGL 2303 (American Literature: Colonization to 1900)
   *ENGL 3365 (Nineteenth-Century British Poetry)
   *GNED 3391 (Special Topics in General Education: Literature and the Environment)
   *HIST 3392 (Special Topics in History: History of U.S. Science and Technology)
   *PHIL 3332 (Philosophy of Science)
   *PHIL 3351 (Social and Political Philosophy)

IV. ENVI 401 Senior Seminar in Environmental Studies

THE MINOR
The Environmental Studies minor is an interdisciplinary study of the Earth's environment and human interaction with that environment. The required courses address environmental issues from natural science, economic, and sociocultural perspectives. At least nine hours need to be upper-division courses. In addition, it is recommended that Environmental Studies Minors complete ENVI 4301, Senior Seminar in Environmental Studies.

Given the breadth of this minor, a significant overlap with a student's choice of Common Curriculum courses is both expected and encouraged. To that end, courses that fulfill an understanding are indicated (*) in the following lists.

Requirements for the minor are listed below, including at least 12 hours of lower division and 9 hours of upper division courses.

I. Required courses

- *ENVI 1301 (Introduction to Environmental Studies)
- *BIOL 1311 (Integrative Biology I)
- *ECON 1311 (Principles of Microeconomics)
- *GEOS 1304 (Environmental Geology)

II. Required upper division courses (check catalog for prerequisites)

- *ECON 3333 (Economics and the Environment) (also listed as URBS 3333)
- *GEOS 3300 (Oceanography)
- URBS 3333 (Economics and the Environment) (also listed as ECON 3333)

III. One course from the following list (check catalog for prerequisites)

- BIOL 3434 (Ecology)
- BIOL 3440 (Animal Behavior)
- *CHEM 2319, 2119 (Organic Chemistry)
- ENGR 2311 (Mass and Energy Balances)
- GEOS 2304 (Earth Surface Processes)
- GEOS 3411 (Hydrology)
- GEOS 3308 (GIS and Remote Sensing)

IV. One course from the following list (check catalog for prerequisites)

- ANTH 2357 (Humans and the Environment)
- ANTH 3387 (South American Indigenous Peoples: Conquest and Development)
- ANTH 3364 (Economic Anthropology)
- ANTH 4354 (Seminar in Primatology)
- CMLT 2301 (World Literature and the Environment)
- ECON 3318 (Global Economy)
- ECON 3334 (Urban Economics) (also listed as URBS 3334)
- ENVI 4390 (Special Topics in Environmental Policy)
- HIST 3382 (The City in History) (also listed as URBS 3305)
- HIST 4360 (Seminar in United States History: Environmental History)
- PLSI 3313 (Policy Analysis and the Policymaking Process)
- PLSI 3346 (Geography and World Politics)
- URBS 3305 (The City in History) (also listed as HIST 3382)
- URBS 3334 (Urban Economics) (also listed as ECON 3334)

Recommended:

- ENVI 4301 (Senior Seminar in Environmental Studies)

The course is available to seniors and may be taken only once for credit.

ESAC CERTIFICATION: "GREEN LEAF" COURSES FOR ENVIRONMENT/SUSTAINABILITY ACROSS THE CURRICULUM (ESAC)

Students interested in an Environment/Sustainability across the Curriculum (ESAC) certification have the opportunity to study the wide-ranging interdisciplinary questions relating to the environment and sustainability through a variety of courses while they pursue any major at Trinity. The program offers a certification as a supplement to traditional majors and minors.

Students earn the certification by successfully completing a minimum of five of the "Green Leaf" courses accepted by the program. ("Green Leaf" courses are noted in the class schedules in the text under the course title.)

At least one class of the five must be taken from each of the three categories:

1) Sciences and engineering;
2) Humanities and arts;
3) Social sciences and business.

No more than two courses can be in the student's major.

Green Leaf courses counting toward certification:

1) Sciences and Engineering:

- BIOL 1307 (Biological Impact and Issues)
- BIOL 1311 (Integrative Biology I)
- BIOL 3391 (Selected Topics: La Biodiversidad y Conservación de México)
- BIOL 3427 (Plant Biology)
- BIOL 3434 (Ecology)
- BIOL 4351 (Conservation Biology)
- CHEM 3321 (Inorganic Chemistry)
- ENGR 2359 (Fundamentals of Environmental Engineering)
- GEOS 1304 (Environmental Geology)
- GEOS 1307 (Exploring Earth)
- GEOS 3300 (Oceanography)
- GEOS 3411 (Hydrology)
ENVI-1301 Introduction to Environmental Studies

This course analyzes the environment from three related perspectives: the natural sciences, social policy and aesthetic appreciation. The course perspectives including biology, geosciences, policy, art and ethics. In addition to lectures and laboratory work, the course uses field and site trips to investigate the real world conditions for environmental understanding and action.

ENVI-2301 Environmental Science Methods and Analysis

This course is an introduction to methods and analysis used by different disciplines in the environmental sciences. Three field investigations will be conducted by students that involve field and laboratory methods using instrumentation and spatial analysis (e.g. Geographic Information Systems). These investigations will emphasize interdisciplinary approaches, experimental design, access to and use of scientific literature and effective communication of scientific process and results. This 3 credit course meets once per week for a 75 min lecture and once per week for a 4 hour laboratory.

Prerequisites: BIOL 1311 and GEOS 1304.

ENVI-4301 Senior Seminar in Environmental Science

An in-depth synthesis of special topics from the Environmental Studies curriculum, with application to current environmental problems. Student work will integrate the three primary areas of environmental studies: the natural sciences, policy analysis and arts and humanities.

Prerequisite: senior standing.

ENVI-4390 Topics in Environmental Policy
The course examines environmental policy as applied to specific cases of environmental problems and natural resource management. Topics vary. A student may repeat the course for a maximum of six semester hours.

Prerequisite: consent of the program chair.

ENV1-4395 Environmental Studies Internship

Field work experience in a setting arranged and approved by the student, a faculty member of the Environmental Studies Advisory committee, and a non-University institution. Supervision and guidance will be provided by the host agency and contact with the professor must be maintained. A student may repeat the course for a maximum of six semester hours. This course is taken Pass/Fail.

Faculty

RICHARD V. BUTLER, Ph.D., Professor, Economics

L. TUCKER GIBSON, Ph.D., Professor, Political Science

DIANA D. GLAWE, Ph.D., Associate Professor, Engineering Science

GLENN C. KROEGER, Ph.D., Associate Professor, Geosciences

KELLY G. LYONS, Ph.D., Associate Professor, Biology

JENNIFER P. MATHEWS, Ph.D., Professor, Sociology and Anthropology

JUDITH NORMAN, Ph.D., Professor, Philosophy

RICHARD K. REED, Ph.D., Professor, Sociology and Anthropology; Chair

DAVID O. RIBBLE, Ph.D., Professor, Biology

HEATHER I. SULLIVAN, Ph.D., Associate Professor, Modern Languages and Literatures
TRINITY UNIVERSITY

Courses of Study 2011 - 2012

Film Studies

Overview

The minor in Film Studies is an interdisciplinary program that explores film as a cultural, artistic, and commercial product. Students will have the opportunity to study film principles through theory, history, and practice.

Requirements

THE MINOR

The requirements for a minor in Film Studies are as follows:

I. Complete 21 semester hours in the following distribution:

   A. FILM 1301 (Introduction to Film Studies).
   B. One of the following seven courses:
      - CHIN 3313 (Cities of Strangers: Trans-Cultural Chinese Cinema)
      - FILM 2301 (International Cinema)
      - ML&L 3303 (Chinese Cinema)
      - ML&L 3311 (French Cinema)
      - ML&L 3321 (German Cinema)
      - SPAN 3321 (Spanish Cinema)
      - SPAN 3322 (Spanish American Cinema)
   C. Six additional hours taken from at least two departments from the Study Coursework list.
   D. Three hours from the Practice Coursework list.
   E. Six hours of electives chosen from either the Study or Practice Coursework list.

II. Guidelines for selection of coursework:

   A. At least nine hours of coursework in the Film Studies Minor must be upper division.
   B. No more than nine hours of the coursework can be taken from one department to fulfill the requirements of the minor.

FILM STUDIES CORE

Study Coursework

   - ARTH 3357 (History of Photography)
   - CHIN 3313 (Cities of Strangers: Trans-cultural Chinese Cinema)
   - COMM 3325 (Special Topics: Women Journalists in Film)
   - COMM 3325 (Special Topics: Film Noir)
   - HIST 3372 (Black Images in Film)
   - ML&L 3303 (Chinese Cinema)
   - ML&L 3311 (French Cinema)
   - ML&L 3321 (German Cinema)
   - PHIL 3357 (Philosophy of Film)
   - PLSI 1332 (Film, Literature, and Politics of the Third World)
   - SPAN 3321 (Spanish Cinema)
   - SPAN 3322 (Spanish American Cinema)
   - RELI 3318 (Religion and Film)
   - THTR 2332 (Play Structure and Analysis)

Practice Coursework

   - ART 2350 (Beginning Photography)
   - ART 3350 (Intermediate Photography)
   - ART 4-50 (Advanced Photography)
   - ART 2352 (Beginning Digital Photography)
Courses

FILM-1301 Introduction to Film Studies
This course is an introduction to the artistic, cultural, and scholarly importance of film. The course focuses on the development of film as a complex art form, the evolution of narrative as part of a formal system, the development of the industry and film genres, critical and cultural approaches to film analysis, and the construction of the audience. Students will read excerpts from primary texts as well as more general texts dealing with film interpretation and criticism. (Also listed as ARTH 1301, COMM 1302, ENGL 1301, and ML&L 1301.)

FILM-2301 International Cinema
This course focuses on the cultural and critical analysis of international films as an expression of particular artistic genres and/or styles within specific historical, ideological, and cultural contexts. Films selected have achieved wide, critical acclaim; others reveal unique and important visions of human experience; while others are selected for their political, ideological, or sociological significance. Students should develop an awareness that the medium of film has a history and that its history is not confined to national boundaries. (Also listed as ARTH 2301, COMM 2301, ENGL 2300, and ML&L 2301.)

Faculty

WILLIAM G. CHRIST, Ph.D., Professor, Communication

AARON DELWICHE, Ph.D., Associate Professor, Communication

NINA C. EKSTEIN, Ph.D., Professor, Modern Languages and Literatures

PATRICK KEATING, Ph.D., Assistant Professor, Communication; Chair

RITA E. URQUIJO-RUIZ, Ph.D., Associate Professor, Modern Languages and Literatures

MICHAEL T. WARD, Ph.D., Associate Professor, Modern Languages and Literatures
Courses of Study 2011 - 2012

General Education

Courses

GNED-1300 First-Year Seminar
An interdisciplinary seminar focusing on variable themes, required of all first-year students.

GNED-1301 Readings in Science and Religion
An examination of key issues regarding human nature and our place in the universe from religious, literary, and scientific perspectives, focusing on major debates in the discourse between science and religion in Western culture over the last five hundred years. Involves readings from primary texts, discussion of ideas in the texts both orally and in writing, and instruction in analytical and argumentative writing. Offered to first-year students as alternative to First-Year Seminar (GNED 1300).

GNED-1303 Japanese Perspectives
This course introduces the student to Japanese culture. The course begins with an inspection of Japanese religions, especially its native Shinto, Buddhism, and Zen. It includes the development from rule by Emperor through rule by military or shogun to modern democracy. A third section covers the development of Japanese aesthetics as seen in its major literary and artistic production, for example, in poetry, Noh drama, ink-brush painting, pottery, and drama/film. The last section of the course covers the modern era, from Japan's reopening to outsiders in the 19th century to its current place as a world power. The stresses on Japanese social structures as they adapt to Western influence are viewed through a variety of means: government policies, societal experiments, novels and films, and so on. (Also listed as ANTH 1303 and ML&L 1303.)

GNED-1306 Energy and Society
A study of the physics and technology of energy systems and their impact on society.

GNED-2110 McNair Tutorial - Sophomore Level
An examination of research design, research ethics, the presentation of research findings, and related issues for sophomore level participants in the McNair Scholars Program. May be repeated for a maximum of two hours credit. Pass/Fail only.
Prerequisite: admission to the McNair Scholars Program and consent of instructor.

GNED-2340 Creative Thinking and the Artistic Process
This course encourages students to synthesize a theoretical and experimental approach to the creative process as studied through the visual arts, music, creative writing, and theatre. Students enter into the creative process as a means to develop creative self-expression, aesthetic sensibility, and an understanding of the arts. The nature and drive of artistic endeavor is explored through studies of the lives of significant thinkers and artists, examinations of art works, guest lectures, and projects. Students will engage in activities and projects that will enable them to access and develop their own creative thinking skills in concert with traditional, analytic modes. (Also listed as ART 2314, ENGL 2340, MUSC 2340, and THTR 2340.)

GNED-3110 McNair Tutorial - Junior Level
An examination of research design, research ethics, the presentation of research findings, and related issues for Junior level participants in the McNair Scholars Program. May be repeated for credit for a maximum of two hours credit. Pass/Fail only.
Prerequisite: admission to the McNair Scholars Program and consent of instructor.

GNED-3-12 McNair Research Internship

http://web.trinity.edu/x10500.xml?PrintFriendlyPage
Independent Study in connection with McNair Scholars Program research activities. May be repeated for a maximum of four hours credit. Pass/Fail only.

Prerequisite: admission to the McNair Scholars Program and consent of instructor.

**GNED-3325 The U.S. Latino Experience**

An examination of the evolution of the Latino communities of the United States, with attention to the role of U.S. foreign policy in creating Latino communities, the impact of domestic policy on the various sub-groups, continuity and change in the Latino communities of the U.S. and the emergence of a trans-national Latino community and culture in the U.S.

**GNED-3326 U.S. Latino Cultural and Artistic Expression**

An examination and evaluation of U.S. Latino artistic/cultural expression, with specific attention to the artistic production of U.S. Latino artists, and the development of a unique U.S. Latino artistic expression.

**GNED-3328 The Peer Tutor**

Course for peer tutors to First-Year Seminar.

**GNED-3-91 Special Topics in General Education**

Nondepartment-specific special-topic courses. Each offering must be approved by the University Curriculum Council. Students may repeat the course if on a different topic. There may be prerequisites.

**GNED-4110 McNair Tutorial - Senior Level**

An examination of research design, research ethics, the presentation of research findings, and related issues for senior level participants in the McNair Scholars Program. May be repeated for a maximum of two hours credit. Pass/Fail only.

Prerequisites: admission to the McNair Scholars Program and consent of instructor.

**GNED-4300 Senior Interdisciplinary Seminar**

An Interdisciplinary Seminar focusing on various themes drawn from the humanities, social sciences, natural sciences, and/or quantitative reasoning.

Prerequisite: consent of instructor.

**GNED-4301 Senior Synthesis**

A course designed to allow the student to draw together and apply creatively the content acquired in the courses taken in the Understandings. Significant paper and presentation required for completion.

Prerequisite: 3.0 GPA or better and consent of the course administrative coordinator.

**HUMA-1600 Readings From Western Cultures**

An examination of persistently contested ideas in the history of Western cultures, focusing on the intellectual heritage of the Greco-Roman and Judeo-Christian strands of Western history. Involves readings from primary texts, discussion of ideas in the texts both orally and in writing, and instruction in analytical and argumentative writing. Huma 1600 combines sections of First-Year Seminar and Writing Workshop into an integrative academic experience with one common theme, syllabus, and readings (Also listed as GNED 1300 and ENGL 1302.)
Courses of Study 2011 - 2012

Geosciences

Requirements

THE MAJOR

BACHELOR OF ARTS DEGREE IN EARTH SYSTEMS

The Bachelor of Arts program prepares students interested for careers or disciplines (e.g., environmental science, secondary education, law, geography) that requires a fundamental understanding of earth systems. This program offers flexibility, allowing students to pursue intensive study in other disciplines. The requirements for the degree of Bachelor of Arts with a major in Earth Systems are:

I. The common curriculum

II. Departmental requirements:

A. 30 semester hours in geosciences, including:

1. GEOS 1407; or GEOS 1303 and GEOS 1101; or GEOS 1304 and GEOS 1101; or GEOS 1306 and GEOS 1101.
2. GEOS 2401, 2304, and 3400.
3. Participation in GEOS 3120 is required for junior majors. Trip expenses, including transportation, must be paid by each student.
4. At least fourteen additional upper division hours in geosciences; no more than three hours of Directed Studies or Thesis may be applied to this upper division hour requirement.
5. GEOS 4001.

B. 18 additional semester hours from the following courses:

1. At least 9 semester hours from ANTH 2310, BIOL 1311, 1111, 3434; BUSN 2301; CHEM 1318, 1118, 2319, 2119; MATH 1307, 1308, 1311, 1312, 1320; CSCI 1320, PHYS 1303, 1309, 1311, 1111, 1310, 1312, 1112; PSYC 2401.
2. At least 6 semester hours from CMLT 2301; ECON/URBS 3330; ANTH 2310, 2357, 3363; PHIL 2350, 2356; PLSI 3346; SOCI 1316, 2314; URBS 3340.

III. Electives sufficient to total 124 hours.

BACHELOR OF SCIENCE DEGREE IN GEO SCIENCES

The Bachelor of Science program prepares students for graduate work in geosciences or for entry-level positions in geosciences or related fields. The program serves the student interested in a broad-based introduction to geosciences and provides the opportunity for research in the field or laboratory setting for students at the upper division level.

The requirements for the degree of Bachelor of Science with a major in geosciences are:

I. The common curriculum
II. Departmental requirements:

A. 36 semester hours in geosciences, including:

1. GEOS 1407; or GEOS 1303 and GEOS 1101; or GEOS 1304 and GEOS 1101; or GEOS 1306 and GEOS 1101.
2. GEOS 2401, 2304, 3400, 3309, and 3401.
3. Participation in GEOS 3120 is required for junior majors. Trip expenses, including transportation, must be paid by each student.
4. At least 13 additional upper division hours in geosciences; no more than 3 hours of Directed Studies or Thesis may be applied to this upper division hour requirement.
5. GEOS 4001.

B. MATH 1307 or 1311 and one of MATH 1308, 1312, or 1320; CHEM 1318 and 1118; PHYS 1309 or 1311, PHYS 1310 or 1312; PHYS 1111 and 1112.

III. Electives sufficient to total 124 hours. It is recommended that students planning to attend graduate school or enter directly into a field-oriented aspect of the discipline take an accredited and departmentally approved summer field geology course.

GUIDELINES FOR ACCEPTANCE OF MAJORS

I. Full acceptance is granted if the following requirements are met at the time of application:

1. Completion of GEOS 1407; or GEOS 1303 and GEOS 1101; or GEOS 1304 and GEOS 1101; or GEOS 1306 and GEOS 1101; and GEOS 2401, 2304, and 3400 with an average grade of C or better.
2. A cumulative grade point average of at least 2.0.

II. Provisional acceptance may be granted to students who have not yet met the above requirements if there is a reasonable expectation that they can complete the major.

THE MINOR

This course of study is designed for students who desire to study geosciences in some depth although their major is in another field. The requirements are 18 semester hours in geosciences including one of GEOS 1407, or GEOS 1303 and 1101, or GEOS 1304 and 1101, or GEOS 1306 and 1101; GEOS 2401 or 2304, plus additional geosciences hours to total 18, nine of which must be upper division.

HONORS IN GEOSCIENCES

A student in Geosciences may work toward Departmental Honors by satisfying the University guidelines for Departmental Honors published in this bulletin, including the minimum 3.33 cumulative grade point average and 3.33 grade point average or better in the major. In addition, the Department of Geosciences has the following requirements:

Application and Procedures

Students planning to write a thesis in geosciences must discuss research plans with at least two department faculty members and secure the support of the thesis director and second reader by the end of the Junior year. Normally the student will initiate research during the Junior year or the summer following the Junior year.

Requirements

Six hours of Thesis credit, GEOS 4395 and 4396, must be completed over two semesters. Students may enroll for thesis credit only with the permission of the thesis director. A formal written thesis proposal must be submitted to the geosciences faculty before the end of the fourth week of classes during the first semester of enrollment for thesis credit. The student may become a formal candidate for Departmental Honors by addressing a written request for consideration, accompanied by a letter of support from the student's thesis director, to the Chair of the department. Achievement of Department Honors will be determined by the quality of the thesis research, the written and oral presentations, and satisfaction of University requirements.
Courses

GEOS-1101 Physical Geology Laboratory
Hands-on investigations of geologic materials and processes, including minerals, rocks, topographic and geologic maps. Projects will include topics in environmental geology and volcanology. Field trip is required; field trip costs must be paid by each student. GEOS 1407 and 1101 cannot both be taken for credit. Laboratory, 3 hours a week.
Prerequisite or corequisite: one of GEOS 1303, GEOS 1304, or GEOS 1306.

GEOS-1303 Volcanology
The study of volcanoes with emphasis on volcanic morphology, eruptive mechanisms, rock types, and magmatic properties and processes. Volcanoes will be examined in the context of plate tectonic theory. Natural resources produced by volcanic processes and geologic hazards associated with volcanism will be discussed. Field trip may be required; field trip costs must be paid by each student. GEOS 1101 may be taken concurrently

GEOS-1304 Environmental Geology
A study of the environment that humans inhabit on Earth. Topics include geologic hazards such as volcanism, earthquakes, mass wasting and flooding; geologic resources such as soils, groundwater, mineral resources and fossil fuels; and the interaction of human activities with the geologic environment including urban development, flood control, agriculture, and climate change. Field trip is required; field trip costs must be paid by each student. Only one of GEOS 1304 or 1407 may be taken for credit. GEOS 1101 may be taken concurrently.

GEOS-1306 History and Evolution of Life
A study of major events in the history and evolution of life. Topics include the origin of life, mechanics of evolution, diversification of life, the invasion of land, innovation of flight, the rise of reptiles, mass extinctions, evolution of mammals, primate and hominid evolution, and how human activity may affect the future of life. Field trip is required; field trip costs must be paid by each student. GEOS 1101 may be taken concurrently.

GEOS-1407 Exploring Earth
An inquiry-based introduction to the Earth, geological materials, and processes. Investigations include such topics as evidence for plate tectonics, properties of minerals, study of rocks in hand specimen and thin-section, geologic maps and cross sections, earthquake seismograms, volcanic processes and landforms, geologic time and radiometric dating and geophysical studies of the subsurface. Three class hours and three laboratory hours each week. Field trips are required; field trip costs must be paid by each student. GEOS 1304 and GEOS 1407 cannot both be taken for credit. GEOS 1407 and 2101 cannot both be taken for credit.

GEOS-2304 Earth Surface Processes
A survey of the important processes that create landforms on the Earth's surface. Emphasis will be on chemical and physical weathering, running water, wind, ice, and the resulting erosional and depositional landforms. The laboratory component will emphasize data collection and analysis techniques, including topographic maps, surveying and field trips. Two class hours and three laboratory hours per week for one semester. Field trips required; field trip costs must be paid by each student.
Prerequisites: GEOS 1407, or GEOS 1303 and 1101, or GEOS 1304 and 1101, or GEOS 1306 and 1101.

GEOS-2401 Earth History
A study of the significance of time as reflected in the rock and fossil record, with emphasis on understanding geological processes within a time framework. An analysis of time concepts, stratigraphic principles, and the fundamentals of sedimentary geology including the historical development of geological concepts and the recognition and reconstruction of ancient environments. Laboratory: study of minerals, rocks, and fossils; interpretation of surface features and time relationships through the use of topographic and geologic maps, cross sections, correlation diagrams, and aerial photos. Three class hours and three laboratory hours a week. Field trips are required; field trip costs must be paid by each student.
Prerequisites: GEOS 1407, or GEOS 1303 and 1101, GEOS 1304 and 1101, or GEOS 1306 and 1101.

GEOS-3300 Oceanography
A study of the geologic, chemical, physical and biologic aspects of the Earth's oceans. Topics include plate tectonics, seawater composition, waves, tides, currents, marine habitats and ecosystems, economic resources, and global climate change. Field trip required; field trip costs must be paid by each student.
Prerequisite: successful completion of a college-level biology, chemistry, geoscience, or physics course.

GEOS-3307 Planetary Geology
An introduction to the geologic processes that operate on the surfaces and within the interiors of rocky ice-rich objects in the Solar System. Earth analogues, remote sensing, and the latest results from the robotic planetary exploration are used to investigate the origin and geology of the solar system. Topics include nebular materials and processes in the early solar system, orbital dynamics, meteorites and impact cratering, formation and evolution of lithospheres and atmospheres, volcanism and tectonics, weathering phenomena, planetary environments, space missions and the data sets they collect.
Prerequisite: GEOS 1407 or 1101.

GEOS-3308 GIS and Remote Sensing
An introduction to computer based mapping and spatial data analysis used in earth and life sciences and environmental monitoring and management. Topics include: cartographic principles and the use of GPS, data and image storage formats; geostatistics and visualization of geospatial data sets; acquisition and analysis of remote sensing data, including airborne and satellite multispectral and radar data, principle component analysis and classification techniques; raster and vector based Geographical Information Systems (GIS).

Prerequisites: completion of Information Technology Skills requirement; completion of at least two college-level courses in computer science, biology, or geosciences; or consent of instructor.

**GEOS-3309 Tectonics**

Study of the tectonic processes of the Earth with emphasis on the historical development of tectonic theory and current research in tectonics. Topics include: geophysical and geochemical characterization of the Earth's interior, plate kinematics and dynamics, earthquake mechanisms, the nature and origin of continental crusts and margins, and the relationship between tectonics and rock-forming processes.

Prerequisite: GEOS 3400.

**GEOS-3312 Environmental and Exploration Geophysics**

An introduction to the use of physical principles and measurements in the study of the Earth's subsurface, with an emphasis on applications in environmental science, engineering, mineral exploration, and archaeology. Topics include Fourier analysis, seismic waves in elastic media, reflection tomography, refraction tomography, and ground-penetrating radar. (Also listed as PHYS 3312.) Field trips are required; field trip expenses must be paid by each student.

Prerequisite: PHYS 1310 or 1312 (may be taken concurrently).

**GEOS-3400 Earth Materials**

An introduction to the origin, classification, and identification of minerals and rocks, including topics related to crystal systems and structures, bonding, mineral chemistry, the nature of magma, solidification of magma, magma genesis and evolution, types of metamorphism, and the importance of mineral and rock resources to our society. The laboratory will emphasize methodologies and techniques used to identify and classify common minerals and rocks in hand specimen and thin section. Three class hours and three laboratory hours per week.

Prerequisites: GEOS 1407, or GEOS 1303 and 1101, or GEOS 1304 and 1101.

**GEOS-3401 Structural Geology**

A study of the mechanics of crustal deformation in the context of plate tectonics. An introduction to the descriptive, kinematic, and dynamic analysis of structures such as folds, faults, joint systems, and foliation. Emphasis on the application of structural cross-sections, stereonet analysis, graphical techniques, and computer applications to problems involving stress and strain of earth materials. Three class hours and three laboratory hours per week. Field trips required; field trip costs must be paid by each student.

Prerequisite: GEOS 2401.

**GEOS-3402 Paleontology**

A study of invertebrate fossils, their classification, morphology, and geologic history. Also included will be an introduction to the principles of paleontologic investigation and their application to the study of geology. Three class hours and three laboratory hours a week.

Prerequisite: GEOS 2401, or consent of instructor.

**GEOS-3405 Field Methods In Quaternary Geology**

A study of the tectonic and climatic controls on long-term landscape evolution. Emphasis will be on field and laboratory techniques for describing Quaternary landforms and deposits. Three class hours per week and an all-day field trip every other Saturday for one semester. Field trips required; field trip costs must be paid by each student.

Prerequisite: GEOS 2304.

**GEOS-3411 Hydrology**

A description of the terrestrial hydrologic cycle and its fundamental components including precipitation, evapotranspiration, infiltration, hillslope hydrology, runoff, flood hydrology and groundwater flow. Emphasis will be placed on physical principles governing the movement of water across and through the Earth's surface. Human interaction with all aspects of the hydrologic cycle will be addressed. The laboratory component of the course will focus on data collection, analysis and manipulation, and involve a significant field component. Three class hours and three laboratory hours a week. Field trips are required; field trip costs must be paid by each student.

Prerequisites: GEOS 2304; PHYS 1309 and 1111, or PHYS 1311 and 1111, or equivalent.

**GEOS-3120 Majors' Field Trip**

Field study of selected areas in Texas and surrounding regions: emphasis on developing observational and interpretative skills in the field. May only be taken on a pass-fail basis. Field trip costs must be paid by each student. May be taken twice for credit.

Prerequisite: departmental major or by invitation of the department.

**GEOS-3321 Geochemistry**
A study of geochemical principles and their application in solving geologic problems. Emphasis is placed on topics in inorganic geochemistry, including phase equilibria, isotopes and trace elements.

Prerequisites: GEOS 3400 and MATH 1311, or consent of instructor.

GEOS-3422 Sedimentology and Stratigraphy

The identification, description, and interpretation of sediments, sedimentary rocks, and sedimentary strata; an introduction to the principles of stratigraphy and of sedimentary processes as they relate to modern depositional systems and their ancient analogs. Emphasis will be on the interpretation of depositional systems and sequence stratigraphy. Three class hours and three laboratory hours a week. Field trips are required; field trip costs must be paid by each student.

Prerequisites: GEOS 2401 and 3400.

GEOS-3423 Basin Analysis

Application of stratigraphic concepts to the study of basin evolution and the environmental history and geometry of sedimentary rock successions. Emphasis will be placed on tectonic evolution of basins, principles of stratigraphic correlation, carbonate depositional systems, sequence stratigraphy, event stratigraphy, stratigraphic modeling, and hydrocarbon systems. Laboratory experiments with outcrop sample suites, core and subsurface geophysical data sets. Three class hours and three laboratory hours per week. Field trips required; field trip costs must be paid by each student.

Prerequisites: GEOS 2401 and 3400.

GEOS-3-90 Directed Studies - Junior Level

Individual work under supervision. Credit may vary.

Prerequisites: major or minor standing and consent of project supervisor.

GEOS-3-91 Special Topics

An in-depth study of a topic in geosciences that is otherwise not covered in existing courses. May be repeated for credit on different topics.

Prerequisite: consent of instructor.

GEOS-4001 Senior Comprehensive Examination

Geosciences and Earth Systems majors with senior standing will take a comprehensive exam. Students will be required to attend a one-hour meeting held early in the Spring semester. The exam will be administered on a Saturday in February. May only be taken on a pass/fail basis.

Prerequisites: departmental major and senior standing.

GEOS-4301 Land Use, Geology, and the Environment

The study of local, regional, and worldwide land use issues in the context of geological and environmental processes. In addition to investigating the impacts of natural processes upon land use, students will also study the complex legal, social, economic, and political factors that affect the land use decision-making process in both rural and urban settings. A term project will emphasize the integration of environmental science, environmental policy, and environmental arts and humanities to address specific real-world land use problems.

Prerequisite: junior or senior standing and at least one course in GEOS.

GEOS-4395 Thesis Research

Student research conducted under the supervision of a Trinity University faculty member leading to written communication of the research in thesis format. Course enrollment requires planning with the thesis director during the Junior year. A written thesis proposal must be submitted to the department.

Prerequisites: senior standing and acceptance by a thesis director.

GEOS-4396 Thesis Research and Presentation

A continuation of student project begun in GEOS 4395. Students are required to write and defend their thesis according to University guidelines set forth in this Bulletin. An oral presentation of the thesis will be made to the students and faculty of the department.

Prerequisite: GEOS 4395.

GEOS-4-90 Directed Studies - Senior Level

Individual work under supervision. Credit may vary.

Prerequisites: major or minor standing and consent of project supervisor.
Faculty

THOMAS W. GARDNER, Ph.D., Imogene and Harold D. Herndon Distinguished Professor of Geology

GLENN C. KROEGER, Ph.D., Associate Professor; Chair

DANIEL J. LEHRMANN, Ph.D., Gertrude and Walter Pyron Professor of Geosciences

DIANE R. SMITH, Ph.D., Professor; Associate Vice President for Academic Affairs

BENJAMIN SURPLESS, Ph.D., Assistant Professor

KATHLEEN SURPLESS, Ph.D., Associate Professor
Courses of Study 2011 - 2012

Health Care Administration

Overview

The Department of Health Care Administration offers an M.S. degree only, and does not have an undergraduate major. The department does offer, however, three undergraduate courses. HCAD 3333 (Health Economics) and HCAD 3350 (The U.S. Health Care System) fulfill a Common Curriculum requirement for Understanding Human Social Interaction: Social Issues and Values. HCAD 3383 (Management of Health Care Organizations) is cross-listed with MGMT 3383 and can be applied towards a Management concentration in Business Administration.

Requirements

ON-CAMPUS PROGRAM

The graduate program in Health Care Administration is designed to promote the development and refinement of the conceptual, interpersonal, and technical skills necessary for understanding individual and community health problems, for effective planning for and management of health care organizations and institutions, and for leadership in the community at large.

ADMISSION REQUIREMENTS

Any undergraduate major is carefully considered. The following items are required for admission to the program: completed application for admission to graduate study and a $30 application fee, official transcripts from all colleges previously attended, aptitude test scores from the Graduate Record Examination (GRE) or Graduate Management Admission Test (GMAT), autobiographical sketch of educational and employment background, a brief statement of purpose indicating specific reasons for selecting a career in health care administration, and two letters of recommendation from individuals who are familiar with academic and/or employment performance. For optimal consideration, applicants are encouraged to apply by May 1.

The department also requires that applicants complete three prerequisite courses. These are three-hour undergraduate courses in accounting, economics, and statistics. In general, the prerequisites should be completed in advance of the student's registration. An applicant may fulfill the requirements in one or more of the following ways:

1. Completion of three-hour undergraduate level courses in each of the three subject areas with a grade of A or B. (C grades will be evaluated on an individual basis.)
2. Individual petition to the Admissions Committee for any exceptions.

An advance deposit of $200, which will be applied toward tuition, is required of applicants who have been accepted for admission. Checks should be made payable to Trinity University and directed to the Health Care Administration Department. Consult the Tuition and Fees section for details.

COURSE OF STUDY

A Master of Science in Health Care Administration will be conferred by Trinity University upon completion of a course of study that includes 16 months of on-campus study and an administrative residency, usually of 12 months. A class is admitted in the fall semester. Degree requirements may be met under either a thesis or non-thesis alternative. Each plan requires 48 semester hours during the on-campus portion of the program, but the non-thesis alternative substitutes 6 hours of coursework for 6 hours of thesis credit. Both plans require an administrative residency that carries 6 hours of graduate credit. The specific courses for either of these plans shall be determined by the student's adviser and Chair of the Department of Health Care Administration after consideration of the student's academic background and experience.

The following courses are recommended:

- HCAD 5101 (Seminar in Professional Development for Health Care Executives)
- HCAD 5102 (Physicians and Physician Relations)
- HCAD 5220 (Statistical Analysis in Health Care Organizations)
- HCAD 5310 (Health Services Organization and Policy I)
- HCAD 5311 (Health Services Organization and Policy II)
- HCAD 5313 (Economic Aspects of Health Care Administration)
- HCAD 5330 (Health Care Organization Theory and Management)
- HCAD 5333 (Legal Aspects of Health Care Administration)
- HCAD 5340 (Health Care Strategic Planning and Marketing)
- HCAD 5350 (Seminar in Current Health Care Issues)
- HCAD 5353 (Financial Management for Health Care Administration)
- HCAD 5365 (Leadership and Conflict Management)
- HCAD 5373 (Health Administration Ethics)
- HCAD 5380 (Health Care Human Resource Management)
- HCAD 5383 (Health Care Institutional Management)
- FNCE 5351 (Financial Analysis for Decision Making)

EXECUTIVE PROGRAM
Trinity University's Health Care Administration Executive Program is designed to meet the educational needs of those individuals currently holding responsible positions in a health care organization. The Executive Program is a part-time, distance-learning experience designed for individuals employed full-time in the health care field. Because students must have prior management-level experience, the program fosters learning opportunities that integrate the theory and principles of health care administration with the richness of each participant's practice setting. A detailed description of the Executive Program can be found at the department's website: http://www.trinity.edu/departments/healthcare.

The program requires 23 months to complete 42 credit hours. Students register for two to three courses (two to four credit hours each) in each of the fall, spring, and summer semesters. Each semester begins with a three- to four-day intensive on-campus session followed by home study and supplemented by regular teleconferencing or webinar sessions.

The following items are required for application to the program: completed Trinity University Graduate application, completed departmental application, a $30 application fee, official transcripts from all previous colleges attended, including evidence of a baccalaureate degree from an accredited institution, aptitude test scores from the Graduate Record Examination (GRE) or Graduate Management Admission Test (GMAT), a resume, a brief statement of purpose indicating the applicant's reasons for selecting a career in health care administration, and two letters of recommendation from individuals who are familiar with the applicant's academic and/or employment performance. The general deadline is July 1.

Provisional admission will be considered if the grade point average on the last 60 hours of undergraduate course work is less than 3.0. A graduate degree can obviate the need to take the GRE or GMAT. Admission to the Executive Program assumes the applicant has basic knowledge of accounting, statistics, and economics. Competency in computer spreadsheet applications (e.g., Excel) is strongly encouraged prior to enrolling. An on-campus interview is required.

Trinity University regulations permit transfer of up to twenty percent of the total degree requirement of appropriate graduate credit from an accredited institution after satisfactory completion of 12 semester hours at Trinity University. Graduate courses taken at another accredited university will be transferred in accordance with the policies stated in the Trinity University Courses of Study Bulletin.

TYPICAL COURSE OF STUDY IN THE EXECUTIVE PROGRAM IN HEALTH CARE ADMINISTRATION:

First Year
Fall Semester
- HCAI 5220 (Statistical Analysis in Health Care Organizations)
- HCAI 5221 (Operations Management in Health Care Organizations)
- HCAI 5330 (Health Services Organization and Policy)

Spring Semester
- HCAI 5231 (Health Care Organization Theory and Management)
- HCAI 5223 (Information Technology)
- HCAI 5270 (Health Administration Ethics)

Summer Semester
- HCAI 5301 (Managerial Accounting)
- HCAI 5340 (Managerial Epidemiology)

Second Year
Fall Semester
- HCAI 5380 (Health Care Human Resources Management)
- HCAI 5353 (Financial Management for Health Care Administration)

Spring Semester
- HCAI 5313 (Economic Aspects of Health Care Administration)
- HCAI 5360 (Leadership Effectiveness)
- HCAI 5456 (Seminar in Strategic Planning and Marketing)

Summer Semester
- HCAI 5333 (Legal Aspects of Health Care Administration)
- HCAI 5451 (Seminar in Strategic Management of Health Services)

The Degree of Master of Science in Health Care Administration is conferred by Trinity University upon completion of all coursework.

Courses

HCAD-590 Problems
Independent reading and research. Credit varies from 1 to 6 semester hours, based on the scope and depth of the proposed work.
Prerequisites: 12 semester hours in health care administration and consent of instructor.

HCAD-5101 Seminar in Professional Development for Health Care Executives
This course is designed to introduce students to the professional requirements associated with being a health care executive. Students will be introduced to the behavior, dress, demeanor, and expectations of health care administrators. In addition, students will be introduced to the professional competencies so important to an executive’s success in today's health care environment.

HCAD-5102 Physicians and Physician Relations

http://web.trinity.edu/x10498.xml?PrintFriendlyPage
This course is designed to introduce students to the various roles and responsibilities that physicians assume in the health care system. Topics will include physician education, physician culture, physician practice patterns, physician executives, and the management of physician practices. Special emphasis will be on strategies to foster effective relationships between physicians and health care management.

HCAD-6220 Statistical Methods in Health Care Organizations
This course covers topics in basic statistical analysis designed to assist the future health leader in understanding and interpreting data and in the role of decision maker. The course covers the collection, aggregation, and presentation of data and basic descriptive and inferential statistics. Students will get hands-on instruction in the application of spreadsheets and statistical software to the solution of various statistics problems.

HCAD-6221 Operations Management in Health Care Organizations
Applications of operations research techniques to health care planning, control, and decision making including, deterministic and random models, mathematical programming, queuing, simulation, forecasting, and quality improvement. Emphasis is placed on model formulation and computer solution of decision models.

HCAD-5310 Health Services Organization and Policy I
An overview of the organization, delivery, financing, and evaluation of the U.S. health care system. Emphasis is on major system components and their inter-relationships. Key concepts include: social values, health personnel, health facilities, major financing mechanisms, and health policy.

HCAD-5311 Health Services Organization and Policy II
Continuation of HCAD 5310 providing an overview of the organization, delivery, financing, and evaluation of the U.S. health care system. Emphasis is on: health care financing and regulation, organized delivery models, quality assessment and management, and health program effects on patients, providers and payers.

HCAD-5313 Economic Aspects of Health Care Administration
Application of economic concepts to the health care sector. Demand and supply, elasticity, health insurance, regulation, competition, and cost-effectiveness analysis. Emphasis on use of economic analysis for strategic planning.

HCAD-5330 Health Care Organization Theory and Management
Cases, concepts, and research findings in health care organizational behavior and administration. Analysis of the impact of individuals, groups, organizational structure, and environment on management performance. Instruction on formulating organizational strategy.

HCAD-5333 Legal Aspects of Health Care Administration
The legal principles and processes influencing health care providers. Basic instruction in contract law and tort law. Focus on major health care liability producing areas and interface between law and ethics.

HCAD-5340 Health Care Strategic Planning and Marketing
An analysis of the strategic planning and marketing processes used by health care managers. The processes examined include the uses of strategic planning models and marketing methodologies as they apply to patients, physicians, and managed care buyers as separate markets for health care services.

HCAD-5350 Seminar in Current Health Care Issues
This is an integrative seminar where current topics in health care administration are examined in a broad context. Skills and knowledge introduced earlier in the curriculum are used to analyze current health care issues, and special efforts are made to include the perspective of practitioners.

HCAD-5353 Finance Management for Health Care Administration
Financial management concepts and techniques, with particular attention to differences between for-profit and not-for-profit organizations and regulatory constraints in the health care sector. Topics include: ratio analysis, cost accounting, rate setting, capital budgeting, sources of financing, cash management, variance analysis, and current issues.

HCAD-5360-5361 Seminar in Contemporary Issues
Contemporary issues in health care administration including new forms of organization for health services delivery, financing of health care, and increased governmental regulation of health services. May be repeated on different topics.

HCAD-5365 Leadership and Conflict Management
An introduction to leadership and conflict management theories, models, and practices within health care organizations. Areas to be covered include leadership models and theories common to organizations delivering health care services, styles and their application in the health care industry, methods and techniques that can be used to manage conflict within organizations, and exposure to current trends and conceptual models of leadership and conflict management.

HCAD-5373 Health Administration Ethics
An analysis of health care issues through lecture, case study, and practitioner involvement. Emphasis on overseeing the moral mission of health institutions while at the same time maintaining the economic viability of those institutions.

HCAD-6380 Health Care Human Resources Management
Analysis of health manpower; professional, technical, and continuing education; credentialing; and emerging directions in strategic human resource management. The recruitment, selection, compensation, retention, and performance evaluation of health manpower; the role of independent contractors of services; and the impact of federal legislation such as NLRA, FLSA, OSHA, EEOA, and ERISA.

HCAD-6383 Health Care Institutional Management
The organization and management of health care institutions in an era of change in the health care system. The course covers the major systems in organizations delivering health care service, involving organizational design, governance, executive functions, clinical systems, and support systems.

HCAD-6385 Quality Control Management in Health Care Administration
Conceptual framework and practical tools for measuring and improving the quality of care in health care settings; role of JCAHO and other regulators in quality assurance; the organizational setting of quality management functions; cost/quality relationships; and patient and consumer involvement in quality improvement functions.

HCAD-6387 Information Systems for Health Care Administration
A survey of the current status of management information systems in health services administration. This course prepares students to participate in the analysis of information systems requirements, design of information systems, evaluation and selection of computer resources, and management of the implementation process.

HCAD-6000 Thesis Renewal Administration

HCAD-6099 Degree Requirements in Progress

HCAD-6201, 6202, 6203 Administrative Residency
Field experience in a health care organization under the supervision of a selected preceptor and a university faculty member. The student is oriented to the total operations of the institution and participates in administrative activities in preparation for major administrative responsibilities. The preparation of three reports is required during the residency to demonstrate the integration and application of theory and management skills to practical problems of health care institutions.

HCAD-6300 Thesis Administration

HCAI-6220 Statistical Methods in Health Care Organizations
This course covers topics in basic statistical analysis designed to assist the future health leader in understanding and interpreting data and in the role of decision maker. The course covers the collection, aggregation, and presentation of data and basic descriptive and inferential statistics. Students will get hands-on instruction in the application of spreadsheets and statistical software to the solution of various statistics problems.

HCAI-6221 Operations Management in Health Care Organizations
This course covers topics in basic applications of operations research techniques to health care planning, control, and decision making, including deterministic and random models, mathematical programming, queuing, simulation, forecasting, and quality improvement. Emphasis is placed on model formulation and computer solution of decision models.

HCAI-6231 Health Care Organization Theory and Management
Cases, concepts, and research findings in health care organizational behavior and administration. Analysis of the impact of individuals, groups, and organizational structure and environment on management performance. The topics of power and leadership are covered in other required courses. Available only to two-year Executive Program students.

HCAI-6233 Information Technology and the Management of Health Care Organizations
As information systems and information technology continue to evolve, health care managers must have a conceptual and operational understanding of the ways that technology can enhance both the delivery and management of health care services. This course will explore how health care organizations can utilize information systems and technology to integrate strategic management with clinical and web-based functions, assess organizational effectiveness, improve clinical care, and achieve patient safety goals.

HCAI-5270 Health Administration Ethics
An analysis of health care issues through lecture, case study, and practitioner involvement. Emphasis on overseeing the moral mission of health institutions while at the same time maintaining the economic viability of those institutions. Available only to two-year Executive Program students.

HCAI-6301 Managerial Accounting
Concepts and techniques of managerial accounting for generalist health care administrators. Emphasizes managerial accounting applications for using financial data as a tool for management planning and decision making in health care. Topics covered include financial accounting, cost accounting, source of revenues, budgeting and control, pricing, and profitability determination. Available only to two-year Executive Program students.

HCAI-6313 Economic Aspects of Health Care Administration

Application of economic concepts to the health care sector. Demand and supply, elasticity, health insurance, regulation, competition, and cost-effective analysis. Emphasis on use of economic analysis for strategic planning.

HCAI-6330 Health Services Organization and Policy

An overview of the organization, delivery, financing, and evaluation of the U.S. health care system. Emphasis is on major system components and their inter-relationships. Key concepts include social values, health personnel, health facilities, major financing mechanisms, and health policy.

HCAI-6333 Legal Aspects of Health Care Administration

The legal principles and processes influencing health care providers. Basic instruction in contract law and tort law. Focus on major health care liability producing areas and interface between law and ethics.

HCAI-6340 Managerial Epidemiology

Managerial epidemiology is the application of the principles and tools of epidemiology to the decision-making process. It applies analytic techniques to the management of health services through the study and measurement of the health of populations. Topics include population health appraisals, determinants of health and disease, health status measurement, health service use, and design and evaluation of health care interventions. Available only to two-year Executive Program students.

HCAI-6383 Finance Management for Health Care Administration

Practical and theoretical aspects of the decision-making process in the financial management of health care facilities and systems. Topics include: price level problems; financial statement analysis and interpretation; evaluation of methods of hospital financing.

HCAI-6380 Leadership Effectiveness

This course will analyze managerial leadership models and the exercise of power in the health care setting. These managerial concepts will be assessed for their effectiveness in guiding managerial behavior in professional-dominated organizations and in assisting health care managers in carrying out essential tasks dealing with conflict in organizations and effecting organizational change. This course available only to two-year Executive Program students.

HCAI-6380 Health Care Human Resource Management

Analysis of health manpower; professional, technical, and continuing education; credentialing and emerging directions in strategic human resource management. The recruitment, selection, compensation, retention, and performance evaluation of health manpower; the role of independent contractors of services; and the impact of federal legislation such as NLRA, FLSA, OSHA, EEOA and ERISA.

HCAI-6461 Seminar in Strategic Management of Health Services

This integrative seminar focuses on the management of health care organizations from a strategic perspective. The various tenets of strategic management will be explored and then applied to various health care organizations. Special emphasis is placed on organization responses to new trends and changing circumstances. Students will be expected to draw on skills and knowledge introduced earlier in the curriculum. Efforts will be made to include the viewpoints of health care practitioners. Available only to a two-year Executive Program students.

HCAI-6466 Seminar in Strategic Planning and Marketing

This course is designed to provide knowledge and skills pertaining to the function of strategic planning, marketing, and business plans in the health care setting. These will be applied to the line or staff manager in the health care setting whose responsibilities center upon management functions other than an assignment as a planning or marketing specialist. This course only available to two-year Executive Program students.

UNDERGRADUATE

HCAD-3333 Health Economics

An introduction to the application of the tools of microeconomics to issues in the organization, delivery, and financing of health care. Economic analysis will be utilized to better understand critical issues in health care such as the level and growth of health expenditures, the role of the government versus the private sector in financing care, the relationship between doctors, hospitals, insurance providers, patients, and employers, and the role of society in providing for the uninsured. (Also listed as HCAD 3333.)

Prerequisite: ECON 1311 or consent of the instructor.

HCAD-3360 The U.S. Health Care System
The course examines the development, organization, and evolution of the U.S. Health Care System and analyzes the impacts of major changes in that system on the values and behavior of both consumers and providers of health care services. Special emphasis is placed on the influence that our nation's second largest "business" has in contemporary society, and on the human consequences of that influence.

Prerequisite: junior standing.

HCAD-3383 Management of Health Care Organizations

This course provides the unique knowledge and skills necessary to understand and effectively manage individuals and groups in challenging health care organizations such as hospitals, medical group practices, and nursing homes. The focus is on developing a theoretical and practical approach to managerial functions as related to dealing with health care professionals and workers, developing a conceptual understanding of the health care system in which the organization operates, and understanding the relationship between the organization, its regulatory environment, and the reimbursement system. Case studies are used to provide real-world applications relevant to health care management. (Also listed as MGMT 3383.)

Prerequisite: junior standing.

HCAD-391 Special Topics

Special topics or contemporary issues in health care administration, including new forms of health services organization, management, delivery, or financing. Permission of the instructor is required. May be repeated on different topics.

Faculty

AMER A. KAISI, Ph.D., Associate Professor

WILLIAM C. McCaughrin, Ph.D., Associate Professor

JODY R. ROGERS, Ph.D., Visiting Associate Professor

EDWARD J. SCHUMACHER, Ph.D., Associate Professor

MARY E. STEFL, Ph.D., Professor; Chair
Courses of Study 2011 - 2012

History

Requirements

THE MAJOR
The requirements for the degree of Bachelor of Arts with a major in history are as follows:

I. The common curriculum

II. Departmental requirements:
   31 semester hours in history including a 4000 level seminar that serves as the capstone course for the major, and one course from each of these three areas: (a) United States history; (b) European history; (c) Asian, Middle East, Latin American history, and African history. A maximum of 12 hours from 1000 level courses may count toward the major.

III. Electives sufficient to total 124 semester hours.

THE MINOR
The requirements for a minor in history are as follows:

I. 18 semester hours in history.

II. At least 9 hours must be from upper division.

THE HONORS PROGRAM

I. University requirements

II. Departmental requirements:

   A. Admission to the program
      1. 3.33 overall Trinity University G.P.A.
      2. 3.66 average department G.P.A.
      3. 3.66 average in the following courses:
         a) HIST 3381: Historians and Their Craft
         b) Seminar (HIST 4400, 4420, 4430, 4440, 4450, 4460, or 4470)
         c) Two upper-division courses in the student's field of specialty

      4. Applications will be made by May 5.

   B. Requirements: Successful completion of a senior thesis written in a fall and spring (HIST 4498, 4499).

A full description of the program is available in the department office.

CRITERIA FOR SOCIAL STUDIES 4-8 AND 8-12 CERTIFICATION

History Majors seeking certification in Social Studies 4-8 and Social Studies 8-12 must take HIST 3376, HIST 3388, and one course each from three of the following four fields: African History, Asian History, Latin American History, and Middle East History.

Courses

LOWER DIVISION

African History

HIST-1300 The African Experience
This course introduces students to aspects of African history and their relation to contemporary issues. The approach is interdisciplinary and incorporates visual and literary documents. Topics may include the politics of antiquity, the trans-Atlantic slave trade, the historical development of Islam, Christianization, colonization and decolonization, with particular attention to West Africa and the Ethiopian region.

**Ancient Greece and Rome**

HIST-1310 Ancient Greece and Rome
A historical introduction to selected aspects of the political, cultural, and intellectual life of the Greek and Roman world, with particular attention to the Greek and Roman contribution to western civilization.

HIST-1311 Gender and Identity in the Ancient World
An examination of the roles of women and men in society, religion, and culture of the ancient world. Readings will include historical, religious, medical, legal, philosophical, and literary texts. Representations of men and women in the visual arts will also be considered. (Also listed as CLAS 1307.)

HIST-1312 Greeks, Romans, and Barbarians
This course gives students an opportunity to examine the cultures and achievements of peoples labeled "barbarians" by the ancient Greeks and Romans. Students will use a broad selection of historical documents originating from the Near East, Egypt, Greece and Rome, as well as the results of archaeological research, for investigating the social structures and values of these cultures. Critical methods for interpreting ancient and modern evidence about these societies will also be discussed. (Also listed as CLAS 1312.)

HIST-1333 Medieval Christianity: Tradition and Transformation, 200-1200
This course will focus on the emergence, spread, and development of Christian religion and culture in western Europe between 200 and 1200. Topics may include: Christianity in the Roman Empire; missionary activity in the early Middle ages; biblical and theological writings; growth of the western Church and papacy; traditions of worship and belief, including saints' cults and monasticism; Christian kingship and holy war; and interactions with non-Christians and heretics.

**Asian History**

HIST-1320 History of China
China from the bronze age through the communist revolution, with special emphasis on institutions, social and family life, philosophy and religion, and the effects of revolution and modernization. Survey readings supplemented by primary sources and a research component.

HIST-1324 Modern East Asia
A survey of the East Asian region since 1800 that addresses the modern histories of China, Japan, Korea, and Vietnam. The course begins with late traditional patterns and covers the stresses of imperialism and colonialism, the emergence of revolutionary independence movements, Communism, and the ordeals of war and economic modernization.

**European History**

HIST-1332 Medieval Europe
Europe from fall of Roman Empire through the 14th century; rise of Christianity; barbarian invasions; development of feudalism; rebirth of urban civilization and achievements of medieval culture. Attention to social and political developments and major thinkers of the period. Lecture and discussion format.

HIST-1334 Early Modern Europe (1500-1815)
Chief cultural and political developments from the Renaissance through the Napoleonic Empire, including the Reformation, Counter Reformation, Thirty-Years War, Puritan Revolution, rise of absolute monarchy, the Enlightenment, and the French Revolution. Special emphasis on religion and social change, church-state relations, ideals of religious reform, and critiques of religion itself.

HIST-1335 Modern Europe
Chief economic, political and social developments in European society since 1815, including the Industrial Revolution, Marxism, the Russian Revolution, political and economic imperialism, World Wars I and II, the Great Depression and the rise of totalitarian states.

**Latin American History**

HIST-1140 Preceptorial In Latin American Cultural Traditions
This one hour course provides enrichment for interested students in HIST 1340, "Latin American Cultural Traditions." The preceptorial meets once a week for 50 minutes in order to discuss primary sources, such as written documents, maps, images, or literature. Special attention will be given to writing. Students must be enrolled concurrently in HIST 1340.

HIST-1340 Latin American Cultural Traditions
Beginning with the first Americans and ending with contemporary Latin America, this course provides a synthetic overview of the emergence of distinctive cultural traditions in Latin America. The "old" worlds of Pre-Columbian American, Iberia, and Africa are studied as are the historical processes that created "new" world cultural traditions in Latin America. Interested students may register concurrently for HIST 1140 (Preceptorial in Latin American Cultural Traditions).

Middle East History

HIST-1350 Medieval Islamic History, 570 - 1517
Historical developments in the Middle East from the life of the Prophet Muhammad to the establishment of the Ottoman Empire: the initial expansion of Islam, the Umayyad and Abbasid empires, Islamic Spain, the Crusades, Fatimid and Mamluk Egypt, and the Turco-Mongolian migrations and conquests.

HIST-1351 The Modern Middle East
Historical developments in the Middle East from the Ottoman conquest of Cairo in 1517 to the present: the Ottoman empire during the age of Sulayman the Magnificent, European imperialism in the Middle East and Ottoman reform efforts, the rise of Arab nationalism and of Zionism, World War I and the creation of the modern Arab state system, the development of oil, the Cold War in the Middle East, the Arab-Israeli conflict, and the Persian-Arabian Gulf arena.

United States History

Students may not count more than two lower-division U.S. history courses for credit for either the major or the minor. One of these courses must cover the period through Reconstruction; the other must cover the period since Reconstruction.

HIST-1360 The History of the United States through Reconstruction
An integrative survey of major political, economic and social developments in the history of the United States of America from colonial settlement through the post-Civil War era of Reconstruction.

HIST-1361 The History of the United States since Reconstruction
An integrative survey of the political, economic and diplomatic history of the United States of America from Reconstruction to the present, emphasizing those factors most influential in shaping contemporary society.

HIST-1370 The African American Experience through Reconstruction
This course focuses on the social, cultural, and political history of African Americans from approximately 1619 to 1877. Topics may include the genesis and evolution of Black slavery and freedom, the Revolutionary War, Nat Turner's Rebellion, and the Civil War and Reconstruction. Particular emphasis is placed on changing ideals of freedom and how African Americans struggled both to achieve and then redefine ever-evolving conceptions of freedom, whether understood politically, socially, or economically.

HIST-1371 The African American Experience since Reconstruction
This course focuses on the social, cultural, and political history of African Americans from approximately 1877 to the present. Topics may include the genesis and evolution of Jim Crow, Black urban migration, the Harlem Renaissance, the Civil Rights Movement, and the Black Power Movements. Particular emphasis is placed on changing ideals of freedom and how African Americans struggled both to achieve and then redefine ever-evolving conceptions of freedom, whether understood politically, socially, or economically.

HIST-1375 Value Conflicts in American History through Reconstruction
Use of critical methodologies to assess the conflicting value systems in pre-industrial America and the way social, political and economic issues associated with those conflicts resulted in the formation of a U.S. national identity.

HIST-1376 Value Conflicts in American History since Reconstruction
Use of critical methodologies to assess the conflicting value systems prominent in post-industrial America and the way social, political and economic issues illustrate value conflict.

UPPER-DIVISION COURSES

These are courses that assume varying degrees of preparation in the subject. Many classes require prerequisites or the consent of the instructor.

African History

HIST-3300 Gender Matters in African History
Focuses on the history of women in Africa from 1800 to the present. Topics may include the family, marriage, childhood, education, sports, and recreation, work and the workplace, politics and political life, labor movements, and women's movements.
Prerequisite: HIST 1300 or consent of instructor.
HIST-3304 Religion in African History

Focuses on the role of religious identity in African history. Topics may include the histories of specific religious movements, the ways in which gender and leadership have intersected in new religious movements, the spread of Islam, Sufi orders, European missionary activities, African responses to non-African Christian missionizing, African missionary activities, and the interactions of different religious traditions and communities. Focus is on the period since 1800.

Prerequisite: HIST 1300 or consent of instructor.

HIST-3310 Archaic and Classical Greece

A study of Greek history from the age of colonization to the death of Alexander the Great (c. 750-323 B.C.), with emphasis on the social and political institutions of Athens and Sparta, relations between Persia and the Greeks, the period of the Peloponnesian War, and the rise of Macedon.

HIST-3314 The Mediterranean World in the Hellenistic Age

A study of the Hellenistic world, including Rome and Carthage, Ptolemaic Egypt, and other Hellenistic kingdoms, with emphasis on the range of Hellenistic culture and the growing power of Rome, from the death of Alexander to the battle of Actium (323-31 B.C.).

HIST-3318 The Roman Empire

A study of the early Roman Empire (31 B.C. - A.D. 235), with emphasis on the work of Augustus, the social and economic development in Italy and the provinces, the condition of the Roman world in the Antonine Age, and the rise of Christianity.

HIST-3319 The World of Late Antiquity

A study of the political, cultural, and religious life of the Roman Empire from the second to the fifth centuries CE - a vital transitional period between the classical and medieval worlds. Beginning with the "golden age" of the Antonine emperors, this course examines the military and political "crisis" of the third century, the Christianization of the empire in the fourth, and the religious and cultural conflicts that accompanied the fragmentation of power in the fifth. (Also listed as CLAS 3319.)

Prerequisite: sophomore standing or consent of instructor.

HIST-3331 The Anglo-Saxons: Scholars, Saints, and Warriors

This course explores the history and culture of the Anglo-Saxons, who ruled England from 500 through 1066. Themes may include Anglo-Saxon warrior culture, foreign invasion and conquest, the development of kingship and government, and the spread of Christianity. The discussion driven course will focus on the analysis of primary texts, works of art, and archaeological evidence.

Asian History

HIST-3320 The Rise of Modern China

Studies of modern Chinese history since 1800, with emphasis on the processes of modernization, the major phases of the Chinese revolution from the experience with Western imperialism through the Republican period and the emergence of the People's Republic of China. Class methods emphasize reading primary sources in translation and research and writing. Course taught in English. (Also listed as CHIN 3320.)

Prerequisite: HIST 1320 or consent of instructor.

HIST-3324 History of Korea

A survey of Korean history from the archaeological record through source materials on the development of the Korean state, the Confucian culture of the Choson kingdom, and the multiple ordeals of modernization in the twentieth century.

European History

HIST-3334 History of Russia

Major developments in the political history of Russia from the early tsars to the collapse of communism.

HIST-3335 The Enlightenment

This course examines the Enlightenment as both an intellectual and cultural watershed moment in the eighteenth century life in the West. Students will explore the social and political thought of the period, looking at a variety of topics such as natural law theory, religious toleration, and the critique of absolute monarchy. Time will also be devoted to examining the emerging cultural institutions in which such ideas took form and circulated from the second half of the seventeenth century to the French Revolution.

Prerequisite: HIST 1334 or consent of instructor.
HIST-3336 French Empire in the Americas, 1800-1800
Examination of French exploration and settlement in the Americas from the fifteenth century to the reign of Napoleon. Topics may include political, economic, and cultural explanations for exploration, interaction with indigenes and slaves, daily life in the colonial era, and the growing tensions between France and other imperial powers.
Prerequisite: HIST 1334, 1360, 1370, or 1375, or consent of instructor.

HIST-3337 History of France
History of France from the rise of Louis XIV in 1661 to the modern day. The course will focus on the rise of the nation-state, the Enlightenment, the French Revolution, the struggle for Democracy in the nineteenth century, the World Wars, and the cultural revolution of 1968, and will conclude with a consideration of the political, economic, and cultural challenges facing France today.

HIST-3338 The World War II Era
Rise of the dictators and the road to war, 1919-1939; World War II in Europe, Africa and Asia; major Cold War events from 1945 to the death of Stalin.

Latin American History

HIST-3340 Latin American Perspectives
An examination of Latin American history through a study of 19th and 20th century texts from different social and ethnic groups; special attention to interpretations by Native Americans and African Americans. Prerequisite: HiST 1340 or consent of instructor.

HIST-3344 Modern Brazil
The history of Brazil form 1500 to present. Topics include: slavery and race relations; family life; Indians and the Amazon; the changing Catholic Church.

HIST-3346 Modern Mexico
Mexico since independence with emphasis on Juarez and the Reform, the Diaz regime, the Revolution, relations with the United States, and major developments since 1920.

HIST-3348 Latin American Economic History
A selective survey of the principal currents of economic growth and change in Latin America since the sixteenth century. Special attention given to the uneven formation of market economies, and to problems associated with colonialism and neo-colonialism; with international financial crises and adjustment; and with ideologically diverse models of development.
Prerequisites: ECON 1311 and 1312.

Middle East History

HIST-3350 The Arab Cultural Tradition
Examination of significant cultural movements in Arab history from the med ieval period to the present, including art, literature, architecture, music, and film.
Prerequisite: HIST 1350, 1351, or consent of instructor.

HIST-3354 The Persian-Arabian Gulf Region since 1500
Examination of the history of the Persian-Arabian Gulf region from the rise of the Safavid Empire to the present; focus on political developments in Iran, Iraq, Saudi Arabia, and the Gulf Sheikdoms.
Prerequisite: HIST 1350, 1351, or consent of instructor.

United States History

HIST-3360 Economic and Business History of the United States to 1865
A study of the development of American business and the economy through the U.S. Civil War. (Also listed as ECON 3344 and BUSN 3344.)
Prerequisites: ECON 1311 and 3 hours of U.S. history or consent of instructor.

HIST-3361 Economic and Business History of the United States Since 1865
A study of the development of the American economy from the U.S. Civil War to the present. (Also listed as ECON 3345 and BUSN 3345.)
Prerequisites: ECON 1311 and 3 hours of U.S. history or consent of instructor.
HIST-3362 History of Early British America

The history of early British America from the sixteenth through the eighteenth centuries, concentrating on the establishment and development of indigenous if disparate polities, societies and economies.

Prerequisite: at least one lower-division course in U.S. history through Reconstruction, or consent of instructor.

HIST-3363 Early American Social History

Discussion-oriented course focusing on the everyday life of ordinary people from the initial cultural contacts among Europeans, Native Americans, and Africans brought to the New World down through the Revolutionary period. Emphasis on the development and maturation of diverse mainland and island communities in British North America, as well as regional and temporal variations in gender, race, and class relations.

Prerequisite: at least one lower-division course in U.S. history through Reconstruction, or consent of instructor.

HIST-3364 The American Revolution

Historical interpretations of the period 1763-1793 with focus on the Stamp Act crisis, the final break and war with Great Britain, and state and national constitution-making.

Prerequisite: at least one lower-division course in U.S. history through Reconstruction, or consent of instructor.

HIST-3365 The Civil War and Reconstruction

This course focuses on the Civil War and Reconstruction as dramatic and defining episodes in American history. Student will examine the emerging sectional conflicts that led up to the war, the military and social history of the war itself, and Reconstruction, with particular attention given to the construction of “freedom” following the upheaval. The class will focus on race, class, gender, and the shaping of individual and collective identities.

Prerequisite: at least one lower-division course in U.S. history, or consent of instructor.

HIST-3366 American Life and Thought to 1900

Changes in American Life and thought, 17th through 19th centuries, as illustrated by topics such as Puritan society, the American Enlightenment, the Transcendentalists, and Social Darwinism.

Prerequisite: at least one lower-division course in U.S. history, or consent of Instructor.

HIST-3367 Modern American Culture

Historical survey of significant cultural, intellectual, and artistic movements in 20th century U.S.

Prerequisite: at least one lower-division course in U.S. history, or consent of instructor.

HIST-3368 United States Diplomatic History

A survey of key events, policies, personalities, and ideas that shaped American foreign relations between the late nineteenth century and the end of the Cold War.

HIST-3370 Free Blacks in America

This course traces the lives of free blacks in America from the early seventeenth century to the Civil War. The course examines free blacks in relation to the origins of American slavery, the Revolutionary War, black radicalism, community development, antebellum slavery, and the American Civil War. Attention will be given to issues of class, gender, and identity.

Prerequisite: at least one lower-division course in U.S. history, or consent of instructor.

HIST-3372 Black Images in Film

Examines the depictions of blacks in America cinema from 1915 to present. This course introduces students to the history of blacks in film and examines how film has been used as a tool of social and political commentary. Attention will be given to issues of race, color, class, and gender.

Prerequisite: at least one lower-division course in U.S. history, or consent of instructor.

HIST-3374 The Old South

Historical developments in the South from the late sixteenth century through the Civil War. This course will examine the South in relation to such major topics as the Revolutionary War, slavery, and the rise and fall of the Confederacy. Attention will be given to issues of race, class, gender, identity, and political ideology.

Prerequisite: at least one lower-division course in U.S. history, or consent of instructor.

HIST-3376 History of Texas

Spanish and Mexican periods; revolution and the Republic; social, political, and economic changes since statehood.

Historiography, Thematic, and Comparative History

http://web.trinity.edu/x10497.xml?PrintFriendlyPage
These courses do not count towards the distribution requirement.

HIST-3381 Historians and Their Craft
A colloquium on selected current debates, schools, and conflicting approaches among historians. Critical discussion of emerging fields as well as attention to ongoing debates within more traditional historical scholarship. Especially appropriate for anyone considering history as a major.

HIST-3382 The City in History
Cross-cultural examination of urban life in the pre-industrial, industrial, and contemporary cities of Asia, Europe, and the Americas with special emphasis on the U.S. urban experience. Interdisciplinary perspective drawing upon history, political science, sociology, and urban planning for an understanding of the complexity of urbanization. (Also listed as URBS 3305.)

HIST-3384 Slavery and the Atlantic Economy
Interdisciplinary analysis of the Atlantic market joining Europe, Africa and the Americas from the sixteenth through nineteenth centuries, with particular emphasis upon slavery, the slave trade, and the development of the "plantation complex." Makes explicit use of economic theory to explain historical change. (Also listed as ECON 3343.)

Prerequisites: ECON 1311 and HIST 1334 or HIST 1340, or consent of instructor.

Special Topics and Honors
These courses must be arranged with individual instructors and approved by the Chair.

HIST-1392 Topics in History
From time to time, the department will offer lower division courses not described in the Courses of Study Bulletin. May be repeated on different topics

HIST-3-90 Independent Study
Independent study in selected areas. 1 to 6 semester hours.
Prerequisites: 6 advanced hours in history and consent of instructor.

HIST-3388 Methods of Instruction in History
Examination of various ways to teach history at the elementary, secondary, or college levels with special emphasis on the inquiry process. Students will work with both original and secondary sources and develop an extensive teaching unit as a final project. Topics may include Texas, U.S., or world history.

HIST-3-92 Special Topics in History
From time to time the department will offer special topic courses not described in the Courses of Study Bulletin. Announcement of such courses will be by special prospectus. May be repeated on different topics.

HIST-4498 Honors Thesis
Individual research and scholarly investigation under faculty supervision leading to the preparation of an Honors Thesis. To be taken only by Senior Honors students in their first semester of their senior year.

HIST-4499 Honors Thesis
Individual research and scholarly investigation under faculty supervision leading to the preparation of an Honors Thesis. To be taken only by Senior Honors students in their second semester of their senior year.

Seminars: The Senior Experience

Seminars require advanced work both in the classroom and in the library. Classes are devoted to common readings and are designed to help the student master the major secondary works and the research methods appropriate to the topic. Work in the library is to be devoted to the development of individual topics, research, and writing. The outcome of a seminar is a major research paper that represents the student's contribution to the broader historical debates within the particular field. Students may take a second seminar with the same course number if the topic offered under that number is different. Prerequisite: senior standing or consent of instructor.

HIST-4400 Seminar in African History

HIST-4420 Seminar in Asian History
HIST-4430 Seminar in European History
HIST-4440 Seminar in Latin American History
HIST-4450 Seminar in Middle East History
HIST-4460 Seminar in United States History A
HIST-4470 Seminar in United States History B

Faculty
DONALD N. CLARK, Ph.D., Murchison Term Professor of History
ANENE EJIKEME, Ph.D., Associate Professor
ALLAN O. KOWNBLAR, D.A., Professor
CAREY H. LATIMORE IV, Ph.D., Associate Professor; Co-Chair
DAVID W. LESCH, Ph.D., Professor; Co-Chair
KENNETH LOISELLE, Ph.D., Assistant Professor
NICOLE MARAFIOTI, Ph.D., Assistant Professor
JOHN J. McCUSKER, Ph.D., Ewing Halsell Distinguished Professor of American History
AARON NAVARRO, Ph.D., Associate Professor
JOY ROHDE, Ph.D., Assistant Professor
LINDA K. SALVUCCI, Ph.D., Associate Professor
TERRY L. SMART, Ph.D., Professor
Human Communication and Theatre

Requirements

THE MAJOR

The requirements for the degree of Bachelor of Arts with a major in Human Communication or Theatre are as follows:

I. The common curriculum

II. Departmental requirements:

A. The Human Communication major consists of 36 semester hours to be taken as follows:

1. Required core consists of 21 semester hours.
   a. Within Human Communication (15 semester hours):
      - HCOM 1300 (Theories of Human Communication)
      - HCOM 2304 (Interpersonal Communication)
      - HCOM 3334 (Persuasion)
      - HCOM 3350 (Rhetorical Criticism) (also listed as ENGL 3334)
      - HCOM 4393 (Capstone for Human Communication Majors)
   b. Outside Human Communication (6 semester hours):
      - COMM 1301 (Mass Media)
      - Select one of the following in research methods:
         - BUSN 2301 (Statistics for Management and Economics)
         - MATH 1320 (Statistical Methods)
         - PSYC 2422 (Statistics and Methods I)
         - SOCI 3360 (Research Methods: Social Statistics)

2. Controlled electives consist of 9 semester hours. At least 3 semester hours must be chosen from each of the following areas:
   a. Public Communication
      - HCOM 1333 (Public Speaking)
      - HCOM 2140 (Forensics)
      - HCOM 3340 (Freedom of Speech I) (also listed as PLSI 3353)
      - HCOM 3374 (International Communication) (also listed as COMM 3322)
      - HCOM 4350 (Political Communication) (also listed as PLSI 3304)
      - HCOM 4391 (Special Topics in Public Communication)
   b. Rhetorical and Communication Theory
      - HCOM 2350 (Classical Rhetorical Theory)
      - HCOM 2352 (Modern Rhetorical Theory)
      - HCOM 3330 (Argumentation)
      - HCOM 3352 (Rhetorical Analysis) (also listed as ENGL 3335)
   c. Communication and Social Context
      - HCOM 3360 (Small Group Communication)
      - HCOM 3362 (Organizational Communication) (also listed as BUSN 3311)
      - HCOM 3384 (Communication and Effective Leadership)
      - HCOM 3372 (Intercultural Communication) (also listed as ANTH 3332)

3. General Human Communication Electives consist of at least 6 more hours of Human Communication courses to achieve greater focus in the major.

4. At least 18 hours of the Human Communication major must be upper-division coursework.

B. The Theatre major consists of 40 semester hours to be taken as follows:

1. Required core consists of 28 semester hours.
   a. Theatre Practicum (4 hours):
      - THTR 1100 (University Theatre Company) (four semesters for a total of four credit hours; at least one semester must involve work in technical theatre)
   b. Technology and Design (6 hours):
THTR 1320 (Introduction to Production Techniques) OR
THTR 1330 (Principles of Costume Technology)
THTR 2310 (Principles of Design) OR
ART 1310 (Design)

THTR 1350 (Introduction to Acting) OR
THTR 1352 (Acting I)

THTR 2310 (Principles of Design) OR
ART 1310 (Design)

THTR 2314 (Principles of Stage Lighting)
THTR 2352 (Acting II: Scene Study)
THTR 3312 (Costume Design)
THTR 3313 (Scene Design)
THTR 3340 (Directing)

THTR 2332 (Play Structure and Analysis)
THTR 3331 (History of Theatre: The Classical Theatre to 1642)
THTR 3332 (History of Theatre: The Restoration to 1850)

THTR 4393 (Capstone for Theatre Majors) OR
both THTR 4398 and 4399 (Honors Thesis) OR
a Capstone Course or Senior Thesis completed for another major

THTR 1100 (University Theatre Company) (two semesters for a total of two semester hours)

An additional 9 hours to be selected from the following courses:

THTR 1304 (Introduction to Theatre)
THTR 1314 (Introduction to Drama)
THTR 1320 (Introduction to Production Techniques)
THTR 1330 (Principles of Costume Technology)
THTR 1350 (Introduction to Acting) OR
THTR 1352 (Acting I)
THTR 2100 (Stage Makeup Design)
THTR 2310 (Principles of Design) OR
ART 1310 (Design)
THTR 2314 (Principles of Stage Lighting)
THTR 2332 (Play Structure and Analysis)
THTR 2354 (vocal Performance for the Actor) (also listed as HCOM 2313)
THTR 2356 (Physical Performance for the Actor)
THTR 3331 (History of Theatre: The Classical Theatre to 1642) OR
THTR 3332 (History of Theatre: The Restoration to 1850)

THTR 1350 (Introduction to Acting) OR
THTR 1352 (Acting I)

THTR 2310 (Principles of Design) OR
ART 1310 (Design)

THTR 2314 (Principles of Stage Lighting)
THTR 2332 (Play Structure and Analysis)
THTR 2354 (vocal Performance for the Actor) (also listed as HCOM 2313)
THTR 2356 (Physical Performance for the Actor)
THTR 3331 (History of Theatre: The Classical Theatre to 1642) OR
THTR 3332 (History of Theatre: The Restoration to 1850)

2. 9 additional hours of Theatre electives of which no more than 3 credit hours of directed study or special topic courses may be applied.

THE HONORS PROGRAM

I. University requirements

II. Departmental requirements:

The Department of Human Communication and Theatre offers a major Honors Program in both Human Communication and Theatre. A description of the program is available in the departmental office.

Courses

HUMAN COMMUNICATION COURSES
LOWER DIVISION

HCOM-1104 Effective Listening

Effective listening is central to information exchange and the development of successful interpersonal relationships. This course will provide an opportunity to assess one's strengths and weaknesses and to develop the skills for more active listening behavior.

HCOM-1160 Parliamentary Procedure

An overview of modern parliamentary practice as set forth in the standard work on the subject, Robert's Rules of Order, most newly revised. Consideration will be given to the purpose and functions of parliamentary procedure, the types of assemblies that employ it, and the significant differences between the standard rules of procedure and the specialized rules utilized by legislative bodies.

HCOM-1162 Interviewing

Examines the goals, techniques, and interpersonal dynamics of the interviewing process. This course focuses on communication skill development in employment, journalistic, counseling, appraisal, persuasive, and research interviews.

HCOM-1300 Theories of Human Communication

Examines the concepts, principles, and applications of human communication theory and research with emphasis on the formats, roles, strategies, and constraints on human communication in varied social contexts.

HCOM-1323 Oral Interpretation

Examines the performative and other critical approaches to the study of literature. Investigates and explores critical methods for analyzing texts and their application to the oral study and performance of a variety of literary genres. (Also listed as THTR 1306.)

HCOM-1333 Public Speaking

A basic course in the theory and practice of public speaking. Emphasizes the preparation and adaptation of messages for effective public presentation. Also addresses the development of critical thinking and listening skills. Not available for P/F option.

HCOM-2133 Advanced Public Speaking

Allows student to extend public speaking skills by refining all aspects of the public presentation of their character and material. This course focuses on the creation and delivery of organized discursive presentations for a public and oral venue.

Prerequisite: HCOM 1333 or permission of instructor.

HCOM-2140 Forensics

Independent research and analysis as well as group brainstorming on issues involved in the current national policy debate resolution. Offered in conjunction with participation in the intercollegiate debate program. May be repeated for no more than six credits.

Prerequisite: admission by consent of instructor only.

HCOM-2304 Interpersonal Communication

A basic course in the theory and practice of interpersonal communications with emphasis on intrapersonal concerns, development and maintenance of interpersonal relations through communication, and the practical skills necessary for interpersonal effectiveness.

HCOM-2312 Nonverbal Communication

Nonverbal Communication is a course designed to familiarize students with theoretical concepts and research centered on the nonverbal aspects of meaning making. Nonverbal Communication refers to everything we use to communicate besides words themselves. This includes ways we use our voices, faces, bodies, and clothing, to create meaning, as well as the ways we use time, space, and touch. So much of communication happens in place of and alongside the use of language. Students will learn about these modes of communication as well as their evolutionary and social origins.

HCOM-2313 Voice and Diction

Provides fundamental concepts and techniques of vocal production, voice and diction, and vocal performance training. Various modes of body/voice exploration are employed. Voice and body work are developed through multiple performance opportunities that seek to increase the performer's vocal clarity, power, flexibility, and range.

(Also listed as THTR 2354.)

HCOM-2350 Classical Rhetorical Theory

Traces the emergence of rhetoric as a theory of public discourse developed by the Greeks and adapted by the Romans. Examines the works of such theorists as Plato, Isocrates, Aristotle, Cicero, and Quintillian.

HCOM-2352 Modern Rhetorical Theory

http://web.trinity.edu/x10496.xml/?PrintFriendlyPage
Examines the evolution of rhetorical theory from the Renaissance to the present, focusing on the works of such leaders as Locke, Campbell, Richards, Burke, and Perelman. Also, studies associated movements such as epistemology, form and genre, and dramatism.

**UPPER DIVISION**

**HCOM-3330 Argumentation**
A study of the theoretical basis of argument as a rhetorical device for critical decision-making. Includes, but is not limited to, consideration of the types of propositions; questions of definition; uses of evidence; reasoning and delivery; and procedural issues including the burden of proof, and the nature of the decision to be made.

**HCOM-3334 Persuasion**
Examines theory, research, and practice in persuasive communication with an emphasis on the interaction of rhetorical and social scientific approaches. Considers the development of strategies and tactics for application in various contexts, especially campaigns and social movements. Addresses ethical issues and questions throughout.

**HCOM-3352 Rhetorical Criticism**
Examines approaches to the critical analysis of rhetorical discourse with emphasis on methodological issues as well as techniques for doing scholarly criticism. (Also listed as ENGL 3334.)

**HCOM-3353 Quantitative Research Methods in Human Communication**
The goal of this course is to help you understand how communication is studied using quantitative (numerical) principles and techniques. Such understanding will enable you to be a more knowledgeable and critical consumer and producer of quantitative research findings. (Also listed as COMM 3354.)

**HCOM-3355 Small Group Communication**
The theory and practice of small group communication dynamics including the examination of such concepts as group problem-solving; discussion procedures; normative behavior; behavior of leaders and followers; conflict; and group cohesion.

**HCOM-3364 Organizational Communication**
Studies the theory and practice of communication within organizations. Includes the fit of communication into organizational theory; communication climate and cultures; leadership and management styles; information networking; and the diagnosis and evaluation of communication problems. (Also listed as BUSN 3311.)

**HCOM-3366 Communication and Effective Leadership**
An examination of the theories and skills necessary for the development of effective communication and leadership. The course includes opportunities for evaluating leaders, leadership behavior and communication in a variety of civic and non-profit contexts.

**HCOM-3372 Intercultural Communication**
Examines theory, research, and the application of communication in an intercultural context with an emphasis on verbal and non-verbal language variables; world view; acculturation; diffusion of innovation; and training for foreign assignments. (Also listed as ANTH 3332.)

**HCOM-3374 International Communication**
Studies communication as an essential component of international organizations and relations. Surveys major topics in international communication and emphasizes communication and international decision-making, comparative media systems and national philosophies, and Third World issues and policy development. (Also listed as COMM 3322.)

**Prerequisite:** COMM 1301 or permission of instructor.

**HCOM-3-90 Directed Studies**
Independent work under faculty supervision. The nature of the project will be agreed upon by the student and participating faculty member prior to registration. Credit varies from 1 to 4 semester hours, depending on the scope of the project.

**Prerequisite:** 15 hours of Human Communication, documentation of ability to study, consent of instructor.

**HCOM-3388 Honors Reading**
Independent study in selected areas in preparation for Honors Thesis.

**Prerequisite:** admission to Honors Program.
HCOM-4350 Political Communication

Studies communication aspects of the political processes in a democratic society with an emphasis on contemporary political campaigns, presidential and congressional rhetoric; and less public forms of communication in the policy-making process. (Also listed as PLSI 3304.)

HCOM-4-80 Teaching Speech and Directing Forensics Activities

Through extra- and co-curricular study, this course examines the philosophy, methods, and problems of teaching speech communication. Emphasis is given to the administration of high school forensic programs, including debate, oratory, extemporaneous speaking, and oral interpretation. Credit varies from 1 to 4 semester hours, depending on responsibilities and/or scope of the project. Course may be repeated for a maximum of 6 credit hours.

Prerequisites: 12 hours of Human Communication or consent of instructor.

HCOM-4-85 The Human Communication Peer Tutor

Functioning as a peer mentor in introductory human communication courses, students will examine the philosophy, methods, and challenges of teaching speech under the direction of the human communication instructor for the course. Credit varies from 1 to 3 semester hours, depending on responsibilities and/or scope of the project. Course may be repeated for a maximum of 6 credit hours.

Prerequisites: 15 hours of Human Communication or consent of instructor.

HCOM-4-90 Directed Studies

Independent work under faculty supervision. The nature of the project will be agreed upon by the student and participating faculty member prior to registration. Credit varies from 1 to 4 semester hours, depending on the scope of the project.

Prerequisites: 15 hours of Human Communication, documentation of ability to undertake study, consent of instructor.

HCOM-4391 Special Topics in Public Communication

An in-depth study of special topics in public communication including, but not limited to, the Rhetoric of the Women's Movement, American Public Address, British Public Address, and Social Movement Rhetoric. May be repeated when subject varies. Maximum credit is six credit hours.

HCOM-4394 Seminar in Human Communication

A variable content seminar emphasizing selected topics in human communication theory, research, and/or application. May be repeated for credit with a different topic. Maximum credit is nine credit hours.

HCOM-4-97 Human Communication Internship

Supervised on- and off-campus experience in human communication appropriate to the student's specialty. Specific guidelines are available in the departmental office. Credit varies with responsibilities. May be repeated for a maximum of six hours of credit.

Prerequisites: 12 hours of Human Communication and consent of Instructor.

HCOM-4396, 4399 Honors Readings

Individual research and scholarly investigation under faculty supervision leading to the preparation of an Honors Thesis. To be taken only by senior Honors students in both semesters of their senior year.

THEATRE COURSES

LOWER DIVISION

THTR-1100 University Theatre Company

Course focuses on specific responsibilities assigned by faculty and staff regarding University Theatre Productions. Included are performance, construction, running, and operating crews, assistant stage management, and a weekly course meeting. May be repeated for four credit hours. Students working in University Theatre Productions who are neither drama majors nor minors are encouraged to enroll in DRAM 1100 but are not required to do so.

THTR-1154 Dance for Theatre

Dance for theater is for students of various levels of expertise in dance, ranging from beginner to advanced, to acquire and polish their skills and convey character through dance. The topic varies based on production needs within the department, but all courses will be primarily skill-based and performance oriented, with short choreography and dance appreciation segments. Topics may include: jazz, tap, modern, ballet, choreography, and other pertinent dance forms. Course is repeatable for up to six credit hours.

THTR-1304 Introduction to Theatre

A hands-on approach to the fundamentals of theatre including literature, acting, directing, and design. Intended as a survey, this course will provide an overview of theatre's numerous components, from the page to the stage, so that the beginning student may better understand the theatrical world.
THTR-1306 Oral Interpretation
Examines the performative and other critical approaches to the study of literature. Investigates and explores critical methods for analyzing texts and their application to the oral study and performance of a variety of literary genres. (Also listed as HCOM 1323.)

THTR-1314 Introduction to Dramatic Literature
A survey of dramatic literature in the western canon from Ancient Greeks to the contemporary era. Students will read and discuss a significant number and range of plays in their theatrical, social, and cultural contexts.

THTR-1320 Introduction to Production Techniques
Introduction to traditional stagecraft, including backstage organization, scenery construction, theatrical lighting, sound design, scene painting and drafting. May be taken instead of THTR 1330 as core credit toward the major.

THTR-1330 Principles of Costume Technology
An introductory course that explores the fundamentals of costume construction, patterning and draping, textiles, and related crafts such as millinery and fabric painting and dyeing. May be taken instead of THTR 1320 as core credit toward the major.

THTR-1343 Improvisation
This course teaches students to increase spontaneity and intuition. Students will practice generating scenes and creating hypothetical worlds without scripts or pre-planning. Using exercises drawn from theatre as well as from music, visual art, storytelling, writing, extemporaneous speaking, and dance, students will learn to develop the spontaneous aspects of creativity and to collaborate effectively with peers.

THTR-1350 Introduction to Acting
This class will provide the beginning acting student with basic acting techniques and vocabulary through exercises, monologues, and scene work. (Not available for P/F option.) Students may not receive credit for both THTR 1350 and 1352.

THTR-1352 Acting I
This class will provide acting students with a core of techniques from which to further develop their acting skills as individuals and as members of a theatrical ensemble. The course is suggested for students planning to major in Theatre. Open to all students by audition or permission of instructor. (Not available for P/F option.) Students may not receive credit for both THTR 1350 and 1352.

THTR-2100 Stage Makeup Design
Introductory course that studies the theory and practice of makeup design and application for the stage, including the creation of special effects.

THTR-2310 Principles of Design
This course is an experiential introduction to the art of design. Students explore 2-D and 3-D compositional problems and practice integrating visual elements with aesthetic principles to communicate creative solutions. Students may not receive credit for both ART 1310 and THTR 2310.

THTR-2314 Principles of Stage Lighting
An introductory course that explores the use of light as an artistic medium in theatrical productions. This overview course acquaints the students with the equipment, design elements, and conceptual processes employed in lighting design.

THTR-2332 Play Structure and Analysis
This course will introduce students to multiple theatrical models and methods used to understand dramatic structure and to analyze specific plays. This course seeks answer to the question: How can we discover the ways in which plays work?

THTR-2340 Creative Thinking and the Artistic Process
This course encourages students to synthesize a theoretical and experimental approach to the creative process as studied through the visual arts, music, creative writing, and theatre. Students enter into the creative process as a means to develop creative self-expression, aesthetic sensibility, and an understanding of the arts. The nature and drive of artistic endeavor is explored through studies of the lives of significant thinkers and artists, examinations of art works, guest lectures, and projects. Students will engage in activities and projects that will enable them to access and develop their own creative thinking skills in concert with traditional, analytic modes. (Also listed as ART 2314, ENGL 2340, GNED 2340, and MUSC 2340.)

THTR-2352 Acting II: Scene Study
This course will focus on scene work from a variety of periods and playwrights, and in class exercises to further develop the acting student's ability.
Prerequisites: THTR 1350 or 1352, and at least sophomore standing or consent of instructor.

THTR-2354 Vocal Performance for the Actor
Provides fundamental concepts and techniques of vocal production, voice and diction, and vocal performance training. Various modes of body/voice exploration are employed. Voice and body work are developed through multiple performance opportunities that seek to increase the performer's vocal clarity, power, flexibility, and range. (Also listed as HCOM 2313.)

THTR-2356 Physical Theatre Laboratory
Drawing together movement, dance, text, mask, song, fiction, and design, students will develop a creative vocabulary that will lay the foundation of a physical approach to theatre. By recalling the traditional popular theatre forms of commedia dell'arte and clowning, as well as mask performance and puppetry, the students will explore the creation of a performance which breaks the boundaries of individual disciplines.

UPPER DIVISION

THTR-3215 Design Project
Students design costumes, lights, or scenery which is actualized in a university mainstage production. Admission to course by consent of Theatre Faculty and Staff.

THTR-3227 Stage Management Project
Provides the students with the opportunity to stage manage a university theatre production. Admission to course by consent of the Theatre Faculty and Staff.

THTR-3301 Theatre Graphics
An examination of current graphic techniques used to communicate designer concepts for the theatre and related fields, which include perspective drawing for the stage, costume drawing, scenic and costume rendering, and an understanding of selected computer-assisted design softwares.

THTR-3312 Costume Design
Costume design for theatrical productions. This course acquaints the student with the artistic techniques and principles used to create costume designs. Students will analyze play scripts in terms of their dramatic components and visual environment and use this information to create appropriate theatrical costume designs. Emphasis is placed on the visual interpretation of literary works using character study, period research, and script analysis.
Prerequisite: ART 1310 or THTR 2310 or consent of instructor.

THTR-3313 Scene Design
Rooted in the discipline of theatre, this course explores the art of conceptualization, visualization, and creativity. Problem solving activities include the use of metaphor to communicate literature for live performance, the creation of sculptural installations for plays and poetry, and the management of scenic design projects. The course examines the various means necessary to communicate a design to a producer, director, or client (sketching, drafting, painter elevations, and model making).
Prerequisite: ART 1310 or THTR 2310 or consent of instructor.

THTR-3315 Theatrical Scene Painting
A study of color theory, scenic techniques, and painting styles introducing the student to the art of theatrical scene painting.

THTR-3320 Advanced Production Techniques: Computer Aided Design
Course will explore the increasing use of computer technology in the theatrical production. The course will acquaint the student with computer aided drafting, computer control of theatrical lighting, computer control and manipulation of sound for the theatre, and computer control of mechanized scenery. The course will also explore the potential integration of these systems.
Prerequisite: THTR 1320 or consent of instructor.

THTR-3330 Dramaturgy
Dramaturgy combines advanced play analysis with writing, production research, collaboration with directors, and the presentation of written and visual materials to enhance a theatre company's and audience's understanding and appreciation of a dramatic text.
Prerequisite: THTR 2332

THTR-3331 History of Theatre: The Classical Theatre to 1642
An examination of the history of theatre, covering Classical, Medieval, and early Renaissance theatre, including African and Asian forms during these periods, up to the closing of the theatres in England in 1642. The course will utilize historical and critical writings and iconography, as well as representative dramatic texts from each period.

THTR-3332 History of Theatre: The Restoration to 1850
An examination of the history of theatre, from the Restoration period to the beginnings of realistic theatre in 1850, including African and Asian forms during these periods. The course will utilize historical and critical writings and iconography, as well as representative dramatic texts from each period. (Also listed as GRST 3332.)

THTR-3335 Greek and Roman Drama
Study of trends in Greek and Roman dramatic literature, with attention to social, cultural, and political contexts. Topics will include the development of dramatic conventions and traditions of reception and performance. (Also listed as CLAS 3303 and ENGL 3322.)

Prerequisite: sophomore standing or consent of instructor.

THTR-3336 Modern Drama
Study of trends in dramatic literature from Realism to the present. (Also listed as ENGL 3320.)

THTR-3337 Contemporary Drama
Study of trends in dramatic literature from World War II through the present as manifested in the United States, Great Britain, Europe, and representative Third World Countries. (Also listed as ENGL 3321.)

THTR-3340 Directing
This course will teach and develop the skills necessary for directing. These include: reading a script, casting, rehearsing, and staging. Class time will be divided between lecture/discussion and presentation of student prepared scenes.

Prerequisites: THTR 1350 or 1352 and 2332 or consent of instructor.

THTR-3352 Advanced Acting: Verse Drama
Verse Drama offers the advanced student scene work in plays from Classical antiquity, Elizabethan drama, Seventeenth Century drama, and other verse dramas from various periods and styles. Exercises explore scansion, rhyme, and period movement.

Prerequisites: THTR 1350 or THTR 1352 and THTR 2352.

THTR-3353 Advanced Acting: Non-Realistic Drama
Non-realistic Drama offers experience in acting scenes from non-realistic texts from nineteenth and twentieth-century European and American drama. Course includes exercises in voice, movement, and performance theory/art.

Prerequisites: THTR 1350 or THTR 1352 and THTR 2352.

THTR-3354 Stage Dialects
Students learn to use International Phonetic Alphabet (IPA) as an effective tool for identifying individual sounds of speech. This knowledge improves articulation, contributes to the development of good Standard American Speech, and provides the actor with an ability to play a range of performance roles. The course employs the use of visual and audio technology as well as phonetics to analyze, create, and perform stage dialects.

THTR-3355 Theater for Social Change
Theater for Social Change investigates the critical issues and creative process that chart the field of community-based theater. The critical investigation is framed by the following questions: What happens when theater gets into the community? How might we define "community"? Can theater stimulate political and social change? What is the role of the artist in relationship to the community? How can performance serve raise consciousness? The collaborative creative process will primarily draw upon August Boal's work and will consist of learning exercises taken from the Image Theater, Invisible Theater, and Forum Theater. This is a participatory and hands-on course.

THTR-3360 Playwriting
This course investigates and practices systematic methods for developing dramatic ideas and turning them into dramatic literature through readings, discussions, and exercises. Each student will, at the end of the semester, have written a one-act play.

THTR-3-90 Directed Studies
Independent work under faculty supervision. The nature of the project will be agreed upon by the student and participating faculty member prior to registration. Credit may vary from 1 to 3 hours depending on the scope of the project. Maximum credit three hours.

Prerequisites: 15 hours in Theatre, documentation of ability to undertake study, consent of instructor.

THTR-3-97 Theatre Internship
Supervised off-campus experience in theatre production and/or management appropriate to the student's specialty. Credit varies with responsibilities, but maximum is three credit hours.

THTR-3398 Honors Readings
Independent study in selected areas in preparation for Honors Thesis.

Prerequisite: admission to Honors Program.

THTR-4215 Design Project
Students design costumes, lights, or scenery which is actualized in a university mainstage production. Admission to course by consent of the Theatre Faculty and Staff.
THTR-4227 Stage Management Project

Provides the students with the opportunity to stage manage a university theatre production. Admission to course by consent of the Theatre Faculty and Staff.

THTR-4340 Directing II

Builds on the fundamentals studied in Directing I to explore further the process of directing for the theatre, from image to context to created word. Special attention will be paid to working with essential elements of the stage, and developing resources into a created space of interaction. Image, time, space, text, character, relationship, rhythm, sound, will all be addressed as means of creating theatrical environment. The course is taught through practical work and developed presentation of short dramatic pieces.
Prerequisite: THTR 3340 or consent of instructor.

THTR-4-86 The Theatre Peer Tutor

Functioning as a peer mentor in introductory theatre arts courses, students will examine the philosophy, methods, and challenges of teaching theatre arts under the direction of the theatre instructor for the course. Credit varies from 1 to 3 semester hours, depending on responsibilities and/or scope of the project. Course may be repeated for a maximum of 6 credit hours.
Prerequisites: 15 hours of Theatre or consent of Instructor.

THTR-4-80 Directed Studies

Independent work under faculty supervision. The nature of the project will be agreed upon by the student and participating faculty member prior to registration. Credit may vary from 1 to 3 hours depending on the scope of the project. Maximum credit three hours.
Prerequisites: 15 hours of Theatre, documentation of ability to undertake study, consent of instructor.

THTR-4-91 Special Topics in Design

An in-depth study of select design topics. May be repeated once when subject varies. Maximum credit is six semester-credit hours.

THTR-4-92 Special Topics in Performance

An in-depth study of select performance topics. May be repeated when subject varies. Maximum credit is six credit hours.

THTR-4393 Capstone for Theatre Majors

Theatre majors with senior standing will create a portfolio of Theatre coursework and production experiences, research career opportunities for the potential application of this portfolio, and present this synthesis to the Theatre faculty, staff, and students. Applicable guidelines are available from Theatre advisors.
Prerequisite: senior status.

THTR-4394 Seminar in Drama

An in-depth study of selected plays, dramatists, and/or movements. May be repeated when subject varies.
Prerequisite: junior or senior standing or consent of instructor.

THTR-4-97 Theatre Internship

Supervised off-campus experience in theatre production and/or management appropriate to the student's specialty. Credit varies with responsibilities, but maximum is three credit hours.
Prerequisite: 12 hours of Theatre and consent of instructor.

THTR-4398, 4399 Honors Thesis

Individual research and scholarly investigation under faculty supervision leading to the preparation of an Honors Thesis. To be taken only by senior Honors students in both semesters of their senior year.

Faculty

STACEY J. CONNELLY, Ph.D., Associate Professor, Theatre

TIMOTHY S. FRANCIS, M.F.A., Technical Director and Lighting Designer, Theatre

LAWRENCE FREY, Ronald K. Calgaard Professor of Communication and Social Justice
Interdisciplinary Second Major

Overview

The Interdisciplinary Second Major (ISM) allows students to pursue a unique learning path that integrates material from several disciplines. Working with a variety of faculty members, each student designs a comprehensive curriculum for rigorous study of a specific topic or intense training in a closely defined area.

The ISM is designed for students who have already declared a primary major in an existing program. Students may not use the ISM to achieve a second, and different, bachelor's degree.

Requirements

Requirements

a. Each proposed major must have an advisory committee of three faculty members representing two or more different disciplines, one of whom will be chair.

b. The advisory committee will help the student prepare a proposal for the major, select courses, and develop a course that synthesizes the diverse work of the major (normally, an existing three-hour independent study course directed by a member of the faculty advisory committee).

c. In order to submit a proposal for an Interdisciplinary Second Major, a student must have already declared a first major.

d. The proposal should identify at least twelve (12) hours of courses that will serve as a core for the major and an array of supporting courses from which the remaining credits will be chosen. One of the core courses must be the synthesis course.

e. The minimum number of hours for an interdisciplinary major is thirty-six (36). Of that number, at least eighteen (18) must be upper-division. No more than eighteen (18) hours may be taken from a single discipline. No more than nine (9) hours may be selected from courses that are used towards the student's first major.

f. The selection of courses must ensure depth in the area of study as well as breadth of exposure to varied perspectives.

Procedures

a. A student who wishes to pursue an Interdisciplinary Second major must submit a proposal before the end of the second semester of the junior year. The proposal form may be obtained from the Office of the Registrar.

b. The Interdisciplinary Second Major Committee will consider this proposal and, if approved, will recommend it to the University Curriculum Council for final approval.

c. The advisory committee will monitor the student's progress toward the major, provide guidance, and evaluate any changes to the course of study.

d. Upon registration for the last semester of courses taken toward the Interdisciplinary Second Major, the student must submit a form for completion of an Interdisciplinary Second Major to her or his advisory committee. The completion form may be obtained from the Registrar. The committee will then return that form, if approved, to the Registrar and will forward a copy of the form to the Interdisciplinary Second Major Committee and the University Curriculum Council.

e. During the semester in which the student completes the coursework for the major, he or she will make a public presentation to his or her advisory committee in order to demonstrate a mastery of the interdisciplinary topic. This presentation must be organized in conjunction with the student's synthesis course.

Courses

See the "Requirements" tab.

Faculty

DUANE COLTHARP, Ph.D., Associate Professor, English; Associate Vice President for Academic Affairs
CHRISTINE DRENNON, Ph.D., Associate Professor, Sociology and Anthropology

ANDREW KANIA, Ph.D., Assistant Professor, Philosophy

DEBRA OCHOA, Ph.D., Assistant Professor, Modern Languages and Literatures

JENNIFER M. STEELE, Ph.D., Assistant Professor, Physics and Astronomy
International Studies

Overview

INTERNATIONAL STUDIES PROGRAM

International Studies is an interdisciplinary undergraduate degree program that combines broad approaches to world affairs, foreign language learning, experience abroad, and specialized studies in one of the regional or functional concentrations.

Requirements

THE MAJOR

The requirements for a Bachelor of Arts with a major in International Studies are as follows:

I. The common curriculum

II. Program requirements

   A. No fewer than 33 semester hours.
   B. Advanced Language study (at least 6 upper division hours). This requirement in the Middle East and East Asian Studies concentrations may be modified in special circumstances upon recommendation of the adviser and the consent of the International Programs director.
   C. One of the following courses: HIST 3369 (U.S. Diplomatic History), or PLSI 1331 (Comparing Countries), or SOCI/URBS 1316 (Introduction to Human Geography).
   D. Required enrollment during each semester of residence in the major in INTL 3100 (International Studies Colloquium). Course may be repeated for 6 hours, only 3 of which may be applied to the major.
   E. Completion of INTL 4104 (Senior Portfolio).
   F. Concentrations (15-18 hours including courses taken while abroad).

   International Studies concentrations are individual programs of study that are designed by students in consultation with the appropriate concentrations adviser. A student may propose courses from the concentration list (below), or with the approval of the adviser and program director, from among courses taken abroad or unlisted courses taken while at Trinity.

III. Electives sufficient to total 124 semester hours.

   While not required, students may select the Internship Course option (INTL 4-01); maximum 3 hours).

   While not required, INTL 4-00 (Senior Research Project) may be taken by students wishing to pursue an international studies project independently or in conjunction with an upper division course.

   Students are strongly encouraged to take courses in the Languages across the Curriculum Program.

   Study Abroad recommended, with the advice of the major adviser and study abroad adviser.

THE MINOR

The requirements for a minor in International Studies are as follows:

I. Completion of no fewer than 21 semester hours.

II. The lower division sequence in an appropriate foreign language (the equivalent of four college semesters). This requirement in the Middle East and East Asian Studies concentrations may be modified in special circumstances upon recommendation of the adviser and the consent of the International Programs director.

III. One of the following courses: HIST 3369 (U.S. Diplomatic History), or PLSI 1331 (Comparing Countries), or SOCI/URBS 1316 (Introduction to Human Geography).

IV. Required enrollment during each semester of residence in the minor in INTL 3100 (International Studies Colloquium). Course may be repeated for 6 hours, only 3 of which may be applied to the minor.

V. Concentrations (12-15 hours including courses taken while abroad).

   International Studies concentrations are individual programs of study that are designed by students in consultation with the appropriate concentrations adviser. A student may propose courses from the concentration list (below), or with the approval of the adviser and program director, from among courses taken abroad or unlisted courses taken while at Trinity.

VI. At least 9 hours must be upper division.

VII. Internship Course option (INTL 4-01; maximum 3 hours).
VIII. Study Abroad recommended, with the advice of the minor adviser and study abroad adviser.

THE CONCENTRATIONS

International Studies concentrations are individual programs of study that are designed by students in consultation with the appropriate concentration adviser. A student may substitute courses taken abroad or special offerings that are not shown on the lists upon recommendation of the adviser and approval by the program director.

Concentrations and Faculty (*concentration coordinator and head adviser)

African Studies: Professor Anene Ejikeme*

East Asian Studies: Professors Donald N. Clark*, Stephen L. Field, Randall Nadeau

European Studies: Professors Nanette Le Coat*, Heather Sullivan

Latin American and Latino Studies: Professors Arturo Madrid, Pablo Martinez, David Spener*

Middle East Studies: Professors Ruqayya Y. Khan*, David Lesch, Susan Siavoshi

International Affairs: Professors Richard V. Butler, Peter O'Brien, Mary Ann Tetreault*

International Environmental Studies: Professors Richard Reed, David Ribble*

THE SENIOR EXPERIENCE

The Senior Experience offers various ways for students to reflect on and unify their interdisciplinary coursework in International Studies.

LANGUAGES ACROSS THE CURRICULUM PROGRAM

Qualified Trinity students are eligible to enroll in the Languages across the Curriculum (LAC) Program, which gives them practice in using professional and academic Spanish, Portuguese, Chinese, Russian, German, or French in special courses in the humanities, social, and natural sciences. Some of these courses are coordinated with existing upper-division courses that are taught in English, and students may enroll in both. Other LAC courses are taught separately as "stand-alone" courses. All LAC courses make extensive use of the target foreign language and most use it as the medium of instruction. Offerings vary from semester to semester and are listed in the pre-registration course schedule under International Studies.

Students may earn a Spanish across the Curriculum certification by successfully completing advanced work in Spanish and a series of courses listed in the Spanish across the Curriculum Program. This certification will be indicated on the student's official transcript. The requirements are:

- SPAN 3301 (Advanced Grammar) or the equivalent
- 3 semester hours of upper-division Spanish electives
- 4 Spanish across the Curriculum courses or 7 credit hours in Spanish across the Curriculum courses

CONCENTRATION COURSE REQUIREMENTS

CONCENTRATIONS (*coordinator and head adviser)

AFRICAN STUDIES (Professor Anene Ejikeme*)

African Studies focuses on the study of the historical experience of the peoples of Africa as well as the social, political, economic, and religious institutions and practices of Modern African states. The concentration invites exceptional students to combine courses at Trinity with study abroad to address in an integrative fashion the evolution of the African experience.

Requirements: Eighteen hours, including at least one semester of study abroad in Africa. Students will satisfy the International Studies language requirement as noted below. Students may substitute courses abroad or other special course offerings for comparable courses in the Concentration list.

Language (6-9 hours): Will be satisfied by either of the following options:

- 6 hours in an African language, which may include Arabic
- 8 hours in an African language, which may include Arabic

Concentration Courses (9-12 hours): Selected from the following lists:

Required Course List (3 hours)

HIST 3300 (Gender Matters in African History)
HIST 3304 (Religion in African History)
HIST 3306 (Imperialism in Africa)

History and Religion List (3 hours)

HIST 3300 (The African Experience)
HIST 3300 (Medieval Islamic History, 570-1517)
HIST 3384 (Slavery and the Atlantic Economy)
RELI 1340 (Slavery and the Atlantic Economy)
RELI 3343 (Islamic Literatures)
RELI 3346 (Islamic Literatures)

Anthropology and Political Science List (3 hours)

PLSI 1332 (Film, Literature, and Politics of the Third World)
PLSI 1341 (The Individual in World Politics)

Special Topics courses from departments may be included as concentration courses when topics pertain to Africa.

Study Abroad (6-9 hours): To be taken while studying abroad, selected in consultation with the concentration coordinator. Note: These hours do not include the hours devoted to the study of African languages including Arabic.

EAST ASIAN STUDIES (Professors Donald N. Clark*, Stephen L. Field, and Randall Nadeau)

Among the courses taken, the student must take at least one course in each of the following departments: History, Religion, and Political Science.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
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<tbody>
<tr>
<td>ARTH 1310</td>
<td>Introduction to Asian Art: China</td>
</tr>
<tr>
<td>ARTH 1311</td>
<td>Introduction to Asian Art: Japan</td>
</tr>
<tr>
<td>BUSN 3330</td>
<td>Global Business Culture (also listed as CHIN 3330)</td>
</tr>
<tr>
<td>BUSN 3363</td>
<td>International Business Research (also listed as CHIN 3363)</td>
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<tr>
<td>BUSN 4130</td>
<td>Global Business Culture (also listed as CHIN 4130 and INTL 4130)</td>
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<td>BUSN 4362</td>
<td>International Branding (also listed as CHIN 4362)</td>
</tr>
<tr>
<td>BUSN 4364</td>
<td>Internationalizing Intellectual Property (also listed as CHIN 4364)</td>
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</tbody>
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### General Education

- **ART 1310**: Introduction to Asian Art: China (also listed as CHIN 1310)
- **ART 1311**: Introduction to Asian Art: Japan (also listed as CHIN 1311)

### Business Administration

- **BUSN 3330**: Global Business Culture (also listed as CHIN 3330)
- **BUSN 3363**: International Business Research (also listed as CHIN 3363)
- **BUSN 4130**: Global Business Culture (also listed as CHIN 4130 and INTL 4130)
- **BUSN 4362**: International Branding (also listed as CHIN 4362)
- **BUSN 4364**: Internationalizing Intellectual Property (also listed as CHIN 4364)

### Modern Languages and Literature

- **CHIN 2311**: Chinese Civilization
- **CHIN 3312**: Chinese Cinema: A Historical and Cultural Perspective
- **CHIN 3313**: Cities of Strangers: Trans-cultural Chinese Cinema
- **CHIN 3320**: The Rise of Modern China (also listed as HIST 3320)
- **CHIN 3328**: The Philosophies of China (also listed as PHIL 3328)
- **CHIN 3330**: Global Business Culture (also listed as BUSN 3330)
- **CHIN 3333**: Chinese Religions (also listed as CHIN 3333)
- **CHIN 3393**: International Business Research (also listed as BUSN 3393)
- **CHIN 4130**: Global Business Culture (also listed as BUSN 4130 and INTL 4130)
- **CHIN 4321**: Topics in Modern Chinese Literature
- **CHIN 4362**: International Branding (also listed as BUSN 4362)
- **CHIN 4364**: Internationalizing Intellectual Property (also listed as BUSN 4364)
- **PHIL 3328**: The Philosophies of China (also listed as CHIN 3328)

### Political Science

- **PLSI 3331**: Political Economy of the U.S., Europe, and Japan

### Religion

- **RELI 1330**: Asian Religions
- **RELI 3332**: The Buddhist Tradition
- **RELI 3333**: Chinese Religions (also listed as CHIN 3333)
- **RELI 3334**: Japanese Religions

### European Studies

- **FREN 3303**: French Civilization
- **FREN 3305**: Introduction to French Literature I

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Among the courses taken, the student must take at least one course in each of the following departments: History, Religion, and Political Science.
FREN 3306 (Introduction to French Literature II)
GERM 3305 (Introduction to German Literature I)
ML&L 3321 (German Cinema)
ML&L 3340 (Russian Literature in Translation I)
ML&L 3341 (Russian Literature in Translation II)
RUSS 3303 (Russian Culture)
RUSS 3305 (Introduction to Russian Literature I)
RUSS 3306 (Introduction to Russian Literature II)
SPAN 3311 (Spanish Civilization)
SPAN 3331 (Introduction to Spanish Literature)
SPAN 4334 (Nineteenth-Century Spanish Literature)
SPAN 4336 (Twentieth-Century Spanish Literature)

Music
MUSC 3341 (Music History and Literature I)
MUSC 3342 (Music History and Literature II)

Philosophy
PHIL 3322 (Classical Modern Philosophy)
PHIL 3323 (German Idealism)

Political Science
PLSI 3330 (European Politics)
PLSI 3331 (Political Economy of the U.S., Europe, and Japan)
PLSI 3362 (Modern Political Thought)
PLSI 3363 (Masters of Suspicion: Contemporary Political Thought)

Religion
RELI 3341 (The Jewish Tradition)
RELI 3342 (The Christian Tradition)
RELI 3343 (Classical Islam)

Sociology and Anthropology
ANTH 3358 (The Anthropology of International Relations)

LATIN AMERICAN AND LATINO STUDIES (Professors Arturo Madrid, Pablo Martinez, and David Spener*)

Requirements: Eighteen hours, including one of the introductory courses and at least one from each of the three main tracks below. Students may substitute courses abroad or other special course offerings for comparable courses in the tracks. Students are strongly encouraged to take a Spanish across the Curriculum course in each of the tracks.

Introduction to Latin American/Latino Studies (one course)
GNE 3325 (The U.S. Latino Experience)
HIST 1140 (Preceptorial in Latin American Cultural Traditions)
HIST 1340 (Latin American Cultural Traditions)
SPAN 3312 (Latin American Civilization)

Art and Culture Track (at least one course)
ANTH 3357 (Pre-Columbian Art of Mesoamerica) (also listed as ARTH 3357)
ARTH 3358 (Pre-Columbian Art of Mesoamerica) (also listed as ANTH 3358)
ANTH 3366 (Seminar on the Ancient Maya)
ARTH 1312 (Art and Architecture of Latin America since the 16th Century)
ARTH 3345 (Spanish Colonial Art and Architecture in Mexico)
ARTH 3354 (Mexico City)
ARTH 3361 (Public Art across the Border)
ENGL 4323 (Studies in American Literature: Literature and Culture in the Latino Borderlands)
GNE 3326 (U.S. Latino Cultural and Artistic Expression)
RELI 3380 (U.S. Latino Religious Practices and Traditions)
SPAN 3322 (Spanish American Cinema)
SPAN 3332 (Introduction to Spanish American Literature)
SPAN 4342 (Spanish American Literature before Modernism)
SPAN 4343 (Twentieth-Century Spanish American Poetry)
SPAN 4344 (Twentieth-Century Spanish American Novel)
SPAN 4345 (Twentieth-Century Spanish American Short Story)
SPAN 4346 (Twentieth-Century Spanish American Drama)
SPAN 4347 (National and Regional Literatures of Spanish America)
SPAN 4348 (Spanish American Women Writers)

Spanish Across the Curriculum Courses
COMM 3120 (La telenovela en América Latina) (also listed as INTL 3107)
INTL 3107 (La telenovela en América Latina) (also listed as COMM 3120)
INTL 3108 (Una breve historia de América Latina en el siglo XX a través de su música popular)
INTL 3110 (La música popular latinoamericana)
INTL 3133 (La República Dominicana: una introducción)

History, Economics, and Politics Track (one course)
ANTH 3364 (Economic Anthropology)
ANTH 4362 (Globalization and International Development) (also listed as SOCI 4362)
ARTH 3354 (Mexico City)
ECON 3341 (Economic Development of Mexico)
ECON 3342 (Latin American Economic History)
ECON 3343 (Slavery and the Atlantic Economy) (also listed as HIST 3384)
HIST 3344 (Modern Brazil)
HIST 3346 (Modern Mexico)
HIST 3384 (Slavery and the Atlantic Economy) (also listed as ECON 3343)
PLSI 3333 (Latin American Politics)
SOCI 4362 (Globalization and International Development) (also listed as ANTH 4362)

Spanish Across the Curriculum courses
ANTH 3343 (Relaciones fronterizas: México-Estados Unidos (bilingüe)) (also listed as INTL 3343 and SOCI 3343)
BUSN 3340 (Haciendo negocios en latinoamericana) (also listed as INTL 3340)
EDUC 3344 (Teaching in the Bilingual (English/Spanish) Classroom) (also listed as INTL 3344)
INTL 3101 (La economía mexicana)
INTL 3340 (Haciendo negocios en latinoamericana) (also listed as BUSN 3340)
For the major concentration in Middle East Studies, students must take 15-18 hours. After fulfilling the specific course requirements of the concentration (below), students may take additional courses from the concentration list or substitute courses taken while abroad or other special course offerings subject to the approval of the concentration coordinator and the International Programs director.

Majors in this concentration must take:
1) HIST 1350 (Medieval Islamic History, 570-1517) or HIST 1351 (The Modern Middle East)
2) PLSI 3334 (State, Society and Change in the Middle East) or PLSI 3344 (The Middle East and the World)
3) RELI 1340 (Islam, Judaism, and Christianity) or RELI 3343 (Classical Islam)

For the minor concentration in Middle East Studies, students must take 12-15 hours. After fulfilling the specific course requirements of the concentration (below), students may take additional courses from the concentration list or substitute courses taken while abroad or other special course offerings subject to the approval of the Concentration coordinator and the International Programs director.

Minors in this concentration must take:
1) HIST 1350 (Medieval Islamic History, 570-1517) or HIST 1351 (The Modern Middle East)
2) RELI 1340 (Islam, Judaism, and Christianity) or RELI 3343 (Classical Islam)

Trinity courses for the Middle East Studies concentration (major or minor) include:

**History**
- HIST 1350 (Medieval Islamic History, 570-1517)
- HIST 1351 (The Modern Middle East)
- HIST 3350 (The Arab Cultural Tradition)
- HIST 3354 (The Persian-Arabian Gulf Region Since 1500)

**Political Science**
- PLSI 3334 (State, Society and Change in the Middle East)
- PLSI 3344 (The Middle East and the World)

**Religion**
- RELI 1340 (Islam, Judaism, and Christianity)
- RELI 2356 (The Qur'an)
- RELI 3341 (The Jewish Tradition)
- RELI 3343 (Classical Islam)
- RELI 3346 (Islamic Literatures)

**INTERNATIONAL AFFAIRS** (Professors Richard V. Butler, Peter O'Brien, and Mary Ann Tetreault*)
A student with a concentration in International Affairs must take 15-18 hours from the lists below. In place of certain courses on the specialization lists below, students may substitute other courses taken while abroad or special course offerings for comparable courses in the areas on the concentration list, subject to the approval of the concentration coordinator and the International Programs director.

**Introductory List (9 semester hours)**
1) ECON 1311 (Principles of Microeconomics)
2) ECON 1312 (Principles of Macroeconomics) or ECON 3330 (Economics and the Environment)
3) PLSI 1341 (The Individual in World Politics)

**Specialization List (9 semester hours)**

**One course in Economics**
- ECON 3318 (The Global Economy)
- ECON 3340 (Economic Growth and Development)
- ECON 3347 (International Trade)
- ECON 3348 (International Monetary Systems)
- ECON 3361 (International Finance (also listed as FNCE 3361))
- FNCE 3361 (International Finance) (also listed as ECON 3361)

**One course in Political Science**
- PLSI 3342 (International Law)
- PLSI 3443 (The Politics of Violent Conflict)
- PLSI 4342 (Energy and the Environment)

**One course from the following**
- ANTH 2357 (Humans and the Environment)
- ANTH 3332 (Intercultural Communication) (also listed as HCOM 3372)
- ANTH 3358 (The Anthropology of International Relations)
- ANTH 3464 (Morality in the Marketplace)
- COMM 3322 (International Communication) (also listed as HCOM 3374)
- HIST 3339 (The World War II Era)
- HIST 3362 (The City in History)
- HCOM 3372 (Intercultural Communication) (also listed as ANTH 3332)
- HCOM 3374 (International Communication) (also listed as COMM 3322)
- RELI 1340 (Judaism, Islam, and Christianity)
INTERNATIONAL ENVIRONMENTAL STUDIES (Professors Richard Reed and David Ribble*)
Students must take 15-18 hours from the following list, or from among courses taken while abroad, or from among special course offerings subject to the approval of the concentration coordinator and the International Programs director. The student must take at least one course in each of the following topical areas: economics, natural resource science and management, and humans and their environment.

**Economics Area**
- Economics
  - ECON 3330 (Economics and the Environment) (also listed as URBS 3330)
  - URBS 3330 (Economics and the Environment) (also listed as ECON 3330)

**Natural Resource Science and Management Area**
- Biology
  - BIOL 1311 (Integrative Biology I)
  - BIOL 3434 (Ecology)
  - BIOL 4351 (Conservation Biology)
- Geosciences
  - GEOS 3300 (Oceanography)
  - GEOS 3308 (GIS and Remote Sensing)
  - GEOS 3411 (Hydrology)

**Humans and their Environment Area**
- Comparative Literature
  - CMLT 2301 (World Literature and the Environment)
- General Education
  - GNED 1306 (Energy and Society)
- Geosciences
  - GEOS 3304 (Environmental Geology)
- Physics and Astronomy
  - PHYS 1302 (Frontiers of Physics)
  - PHYS 1303 (The Earth's Changing Environment)
- Political Science
  - PLSI 4342 (Energy and the Environment)
- Sociology and Anthropology
  - ANTH 1301 (Introduction to Anthropology)
  - ANTH 2357 (Humans and the Environment)
  - ANTH 3358 (The Anthropology of International Relations)
  - ANTH 3464 (Morality in the Marketplace)
  - ANTH 3367 (South American Indigenous Peoples: Conquest and Development)
  - ANTH 4362 (Globalization and International Development) (also listed as SOCI 4362)
  - SOCI 4362 (Globalization and International Development) (also listed as ANTH 4362)
- Urban Studies
  - URBS 3347 (Urban Systems)

Courses

**INTL-1100 International Student Orientation**
A one-credit course to assist new international students in successfully adjusting to Trinity University. It will provide: 1) an overview of the U.S. higher education system, including basic student and faculty roles; 2) a review of key academic differences with other educational systems from around the world; 3) an introduction to cultural adjustment and culture shock; and 4) a review of laws and legal structures that affect immigration status. Assignments may include readings, interviews of students, staff members, and faculty, and brief reports and reflexive essays. The course is required of all incoming, first-year international students who are not U.S. citizens or permanent residents. Must be taken Pass/Fail.

**INTL-2102 Preparing for Study Abroad**
A one-credit course for students preparing to study abroad (or away) for academic credit. Includes academic planning including written proposals for student abroad; program selection and logistical planning for the time away; pre-departure orientation; studies of cross-cultural communication and adjustment; guided individual country studies and studies of US relations with the proposed host country. The course should be taken the semester immediately preceding the planned study abroad (or away) experience. Must be taken Pass/Fail.

**INTL-2103 Alternative Spring Break**
Faculty led course that will introduce students to contemporary issues as well as cultural and historical background materials to prepare students for service learning projects in specific national and international destinations. Cross-cultural competencies and sensitivities will be developed prior to field experiences. The course is offered on a Pass/Fail basis only. Repeatable for credit.

**INTL-3100 International Studies Colloquium**
The Colloquium consists of a weekly meeting of all majors and minors in the program. Under the direction of an assigned faculty member the session topics include discussions of world affairs, presentations by student faculty members and other guests; reports from affiliated student groups; presentations on careers and graduate school opportunities; and reports from seniors about their seminars and tutorial projects. Offered each semester. Required of all International Studies majors and minors while in residence in the program up to a maximum of six hours credit, only three of which may be counted toward the major.

**INTL-3103 Returning from Study Abroad**
A one-credit course for students returning from study abroad that is designed to help students maximize the benefit of their study abroad experiences and to help them readjust to the U.S. and university culture. Students will reflect upon and integrate their experiences in relation to their academic interests and various facets of university life. Must be taken Pass/Fail.
INTL-4-01 International Studies Internship

Between one and three hours of credit may be arranged for appropriate international internships that are undertaken while abroad if they meet academic criteria set by the Committee. Credit may also be arranged for internships in San Antonio during the school year and away, during the summer, with the approval of the International Programs Director.

INTL-4-02 Special Topics in International Studies

From time to time the International Studies program will present special topic courses not described in the Courses of Study Bulletin. Announcements of such courses will be by special prospectus. May be repeated on different topics.

INTL-4103 Model United Nations

Students chosen for the Trinity delegation to national Model United Nations competitions are required to register for this one-hour course. The course involves participation in parliamentary training sessions, learning about the country being represented by the Trinity delegation, and research and writing on the topics before the various Model United Nations committees. May be repeated for credit in successive years.

INTL-4104 Senior Portfolio

A required course for majors in the senior year to prepare a selective, self-reflexive portfolio that draws on achievements in the major and explains them in terms of personal development and professional and scholarly goals and objectives.

THE SENIOR EXPERIENCE

The Senior Experience offers various ways for students to reflect on and unify their interdisciplinary coursework in International Studies.

INTL-4-00 Senior Research Project

A course for seniors who wish to pursue an international studies project -- either independently or in conjunction with an existing, upper-division course -- with the permission of and under the supervision of a faculty member.

COURSES IN THE LANGUAGES ACROSS THE CURRICULUM PROGRAM

Qualified Trinity students are eligible to enroll in the Languages across the Curriculum (LAC) Program, which gives them practice in using professional and academic Spanish, Portuguese, Chinese, Russian, German, or French in special courses in the humanities, social, and natural sciences. Some of these courses are coordinated with existing upper-division courses that are taught in English, and students may enroll in both. Other LAC courses are taught separately as "stand-alone" courses. All LAC courses make extensive use of the target foreign language and most use it as the medium of instruction. Offerings vary from semester to semester and are listed in the pre-registration course schedule under International Studies.

Students may earn a Spanish across the Curriculum certification by successfully completing advanced work in Spanish and a series of courses listed in the Spanish across the Curriculum program. This certification will be indicated on the student's official transcript. The requirements are:

- SPAN 3301 (Advanced Grammar) or the equivalent
- 3 semester hours of upper-division Spanish electives
- 4 Spanish across the Curriculum courses or 7 credit hours in Spanish across the Curriculum courses

INTL-3101 La economía mexicana (The Mexican Economy)

An examination of the most significant contemporary issues affecting the economic life of Mexico. The international, agricultural, financial, communications, and labor sectors of the economy are analyzed in depth, and their relationship to the macroeconomic performance of the country is studied. Special attention is given to the political situation of the country and its impact on the economy. This course will be conducted entirely in Spanish. (Also listed as ECON 3141.)

Prerequisites: SPAN 2302, ECON 1311 and 1312 or 3318, or consent of instructor.

INTL-3104 La experiencia latina en los Estados Unidos (The U.S. Latino Experience)

An examination of the historical experience and cultural expression of the Latino population of the United States, with attention to the role of U.S. foreign policy in creating Latino communities, the impact of domestic policy on the various subgroups, the evolution of U.S. Latino cultural expression, and the changing relationship of Latinos to U.S. society and its institutions. This course will be taught entirely in Spanish and is designed to accompany GNED 3325.

Prerequisites: SPAN 2302, the equivalent, or consent of instructor; and students must have completed, or be enrolled in, GNED 3325.

INTL-3105 La opinión pública del Inmigrante: Trabajo de campo sobre migración mexicana (Public Opinion of Immigrants: Fieldwork on Mexican Migration)

This course combines the study of issues surrounding the immigration debate in the United States with training in the design of field experiments and the methods of survey research. Students participate in empirical research by conducting surveys in Spanish. This course will be conducted entirely in Spanish.

Prerequisite: SPAN 2302, the equivalent, or consent of instructor.
INTL-3107 La telenovela en América Latina (The Latin American Soap Opera)
An examination of the Latin American telenovela, soap opera, from the perspectives of development communication, popular culture, and international television. This course will be conducted entirely in Spanish. (Also listed as COMM 3120.)
Prerequisite: SPAN 2302, the equivalent, or consent of instructor.

INTL-3110 La música popular latinoamericana (Latin American Popular Music)
A study of Latin American culture through popular music, this course will explore both musical forms and lyrics. Musical forms include bolero, tango, baile, cumbia, salsa, rumba, and merengue. The multilayered messages in the lyrics will be analyzed for social and political insights into Latin American culture. This course will be conducted entirely in Spanish.
Prerequisite: SPAN 2302, the equivalent, or consent of instructor.

INTL-3111 Narody Rossii (The Peoples of Russia)
A companion course to ML&L 3342, which introduces Russian culture from medieval through modern times, including not only the Russians, but also the peoples of southern and eastern Russia. The course will emphasize religion, folklore, and art through a series of short Russian-language readings and weekly discussions. The course will be conducted entirely in Russian.
Prerequisite: RUSS 2302 or the equivalent. INTL 3111 is designed to be taken concurrently with ML&L 3342 (The Peoples of Russia), although it may be taken separately with consent of instructor.

INTL-3112 Shangye Zhongwen (The Practice of Business in China)
A study of cultural concepts and customs that have influenced contemporary Chinese business practices and behaviors, through the use of readings and weekly discussions. The course will be conducted entirely in Chinese.
Prerequisite: CHIN 2302 or the equivalent.

INTL-3114 Zhongguo Gudai Shixiang (Classical Chinese Thought)
A study of traditional Chinese thought as manifested in the language of selected classical texts of history, philosophy, poetry, and religion. All readings will be conducted in classical Chinese. No prior knowledge of Chinese is required.
Corequisite: simultaneous enrollment in a Chinese civilization, literature, history, philosophy, political science, or religion course, or consent of instructor.

INTL-3117 Teorii iskusstva russkogo avangarda (Theories and Art of the Russian Avant-Garde)
A companion course to ARTH 3362, which is a survey of the main artistic movements and artists in Russia from 1880-1930: Symbolism, Primitivism, Futurism, Suprematism, Constructivism. The course will pay special attention to the works of Vrubel, Goncharova, Malevich, Kandinsky, and Filonov through slides, a series of short Russian-language readings, and weekly discussions. The course will be conducted entirely in Russian. INTL 3117 is designed to be taken concurrently with ARTH 3362 (Theories and Art of the Russian Avant-Garde), although it may be taken separately with consent of instructor.
Prerequisite: RUSS 2302 or the equivalent.

INTL-3118 Identidades Juveniles en Latinoamerica: Música contemporánea y expresiones artísticas urbanas (Youth Identities in Latin America: Contemporary Music and Urban Artistic Expression)
This course will examine how contemporary music from different Latin American singers (or groups) and popular arts play a significant role in the process through which youth cultures configure their worlds. The class will be exclusively in Spanish.
Prerequisite: SPAN 2302 or equivalent.

INTL-3119 Historia, resistencia, y rebelion en la musica chicana (History, Resistance, and Rebellion in Chicana/o Music)
A study of important historical events and issues of resistance against racism, classism, and the economic exploitation of Chicanas and Chicanos through samples of the music produced by them throughout the 20th century. The course will analyze both musical forms and lyrics. The musical genres will include corridos (ballads), Pachuca and Pachuco (cootselmer) music, Rock 'n' Roll, Civil Rights movement music, Chicana/o Punk, Mariachi, Tejano, and Conjunto music among other styles. This course will be conducted entirely in Spanish.
Prerequisite: SPAN 2302 or equivalent.

INTL-3122 Faust - auf Deutsch (Faust - in German)
A companion course to ML&L 3320 which deals with major German figures and movements in the context of Western literary, political, and cultural history.
Prerequisite: GERM 2302 or the equivalent. INTL 3122 is designed to be taken concurrently with ML&L 3320. The course may be taken separately with consent of instructor.

INTL-3123 Deutsche Politik (German Politics)
This course offers a faster and overview of German politics. It seeks to familiarize students with important theories about, actors, and institutions in, and developments of German politics. After completing the course students should feel confident and comfortable conversing about German politics with German-speaking instructors.
Prerequisite: GERM 2302 or the equivalent, or consent of instructor.
INTL-3124 L'histoire française: un parcours cinématographique (French History through Film)

Moving chronologically through the centuries, this course will explore key historical moments in French culture through film. This course will be conducted entirely in French.

Prerequisite: French 2302 or the equivalent.

INTL-3125 Russian Basics: Language and Culture for Non-Specialists

INTL 3125 offers an introduction to Russian language and culture for non-specialists. Topics include the Cyrillic alphabet, basics of Russian grammar and pronunciation, and Russian bibliographic, computing and conversation skills. INTL 3125 is open to all students and has no prerequisites.

INTL-3133 La República Dominicana: Una introducción (An Introduction to the Dominican Republic)

As an introduction to the Dominican Republic, this course includes information on the history, politics, economy, society, literature, arts, and culture of the island nation. The course draws on academic and literary texts in Spanish, as well as on slides, audiovisual recordings, food, and other resources to explore the various themes. This course will be entirely conducted in Spanish.

Prerequisite: SPAN 2302, the equivalent, or consent of instructor.

INTL-3134 Culture, Identity, and Language in Contemporary Brazil

In this course we will critically examine iconic representations of Brazilian identity, including choro, samba, Afro-Raggae, and Cinema Novo, all of which have served as significant forms of self-expression within the broader framework of Brazilian culture. Through this examination, students will develop a deeper appreciation of Brazilian culture that goes beyond the stereotypical images of Brazil as the tropical land of Carnival and the country of soccer. Although the medium of instruction of this class is Spanish, students will develop reading skills in Brazilian Portuguese using their knowledge of Spanish.

INTL-3301 Paris: La biographie d'une ville (Paris: the Biography of a City)

This course covers the political, social, economic, and cultural history of Paris from the Middle Ages to the present. The course draws on a variety of sources in French, including film and television.

Prerequisite: FREN 3305, 3306, or the equivalent, or consent of instructor.

INTL-3308 Una breve historia de América Latina en el siglo XX a través de su música popular (A Concise 20th-Century History of Latin America through Its Popular Music)

This 3-hour regular course will survey major events and characters that have shaped Latin American history in the 20th century using musical renditions deeply rooted in the collective memory of Latin Americans.

Prerequisite: SPAN 2302.

INTL-3340 Haciendo negocios en Latinoamérica (Doing Business in Latin America)

This course is both a language and an applied business course. On the language part, it is intended to increase the Spanish proficiency in reading, writing, and speaking. The other aspect of the course includes a thorough understanding of cultural, political, and economic aspects of the Latin American business environment. Moreover, the course will immerse the student in the intricacies of exporting to, importing from, establishing a new business in, or operating a foreign branch in a Latin American country. (Also listed as BUSN 3340.)

Prerequisites: ECON 1311, Spanish proficiency, and consent of instructor.

INTL-3343 Relaciones fronterizas México-Estados Unidos (bilingüe)

In the seminar we will examine a variety of social, cultural, political, and economic phenomena that characterize the Mexico-United States border region. Include an optional overnight excursion to communities located on the international boundary itself. This course is conducted bilingually in Spanish and English, i.e., in both languages of the Mexico-U.S. border region. Competence in speaking, reading, writing, and listening in both Spanish and English is a requirement for participation in the course. (Also listed as ANTH 3343 and SOCI 3343.)

Prerequisites: SPAN 2302, the equivalent, and consent of Instructor.

INTL-3344 Teaching in the Bilingual (English/Spanish) Classroom

An introduction to the education of second language learners in the context of bilingual education and English as a second language (ESL) programs. This course includes field experience in working with bilingual and ESL populations in an educational setting. (Also listed as EDUC 3344.)

INTL-3346 La economía española y la Unión Europea (The Spanish Economy and the European Union)

An examination of Spain's economic development and its position within the European Union. The business, economic, and political transformation of Spain from a struggling nation with an authoritarian regime to an economic power with an open and democratic society are studied. The course also examines the development of European Union, with a special focus on its influence on the Spanish business environment. The experiential component of the course includes visits to businesses, government agencies, and NGO's in Spain. (Also listed as BUSN 3346, ECON 3346, and SPAN 3346.)

Prerequisites: ECON 1311, three additional hours in business or economics, SPAN 2302 or the equivalent, and consent of instructor.
INTL-3372 Práctica profesional en España (Internship in Spain)
A supervised summer internship in Spain. Students enrolled in INTL 3372 will serve as interns with various firms, trade groups, governmental agencies, or public interest groups where they will work and gain experience related to the Spanish economy and business world. The nature of the student's responsibilities will vary with the internship involved and be subject to the approval of the supervising faculty member. (Also listed as BUSN 3372, EC ON 3372, and SPAN 3372.)
Prerequisites: ECON 1311, three additional hours in business or economics, SPAN 2302 or the equivalent, and consent of instructor.

INTL-4130 Quanqiu Shangwu Wenhua-Zhong-Mei Jiaodian (Global Business Culture)
A companion course to BUSN/CHIN 3330 which examines the diverse business culture in China in comparison to that in other countries, particularly in the United States. This course must be taken concurrently with BUSN/CHIN 3330 and will be taught entirely in Chinese. Students must have the ability to write and converse in Chinese. (Also listed as BUSN 4130 and CHIN 4130.)
Prerequisites: senior Standing, CHIN 3302 or the equivalent, and consent of instructor.
Corequisite: BUSN 3330 or CHIN 3330.

Faculty
DONALD N. CLARK, Ph.D., Murchison Term Professor of History; Coordinator, East Asian Studies
ANENE EJIKEME, Ph.D., Associate Professor, History; Coordinator, African Studies
STEPHEN L. FIELD, Ph.D., J. K. and Ingrid Lee Endowed Professor of Chinese Language and Literature, Modern Languages and Literatures
ROBERT HUESCA, Ph.D., Professor, Communication; Director
RUQAYYA Y. KHAN, Ph.D., Associate Professor, Religion; Coordinator, Middle East Studies
NANETTE LE COAT, Ph.D., Associate Professor, Modern Languages and Literatures; Coordinator, European Studies
DAVID O. RIBBLE, Ph.D., Professor, Biology; Coordinator, International Environmental Studies
DAVID SPENER, Ph.D., Professor, Sociology; Coordinator, Latin American and Latino Studies
MARY ANN TÊTREAU, Ph.D., Una Chapman Cox Distinguished Professor of International Affairs, Political Science; Coordinator, International Affairs Concentration
DARRYL G. WALDRON, Ph.D., Professor, Business Administration
Linguistics

Overview

The minor in Linguistics provides students an opportunity to study the principles involved in the most basic and universal of human symbol systems. Classical and modern languages share with the disciplines of anthropology, computer science, mathematics, philosophy, psychology, sociology, and speech pathology an interest in the nature of language: how it is acquired, how it is used, and how it changes across time and space. The minor allows the student to learn the basics of linguistics and to pursue the application of these tenets in a variety of fields.

Completion of this program will be indicated on the student's transcript with the notation "Minor in Linguistics."

Requirements

Students interested in a Linguistics minor should submit an application to the chair of the Committee, who will assign a faculty adviser to the student.

The requirements for a Linguistics minor are as follows:

I. Language: 2 years or the equivalent, at the college level, of a language other than English.

II. Eighteen (18) semester hours including at least nine (9) hours from the Primary Curriculum - three (3) hours from the Core area and three (3) hours each from any two other areas - and the remaining nine (9) hours from the Primary Curriculum and/or the Supporting Curriculum. At least nine (9) hours must be upper division.

PRINCIPAL CURRICULUM

A. Core

- ENGL 2310 (Introduction to the Study of Language) (also listed as LING 2310 and HCOM 2310)
- HCOM 2310 (Introduction to the Study of Language) (also listed as ENGL 2310 and LING 2310)
- LING 1300 (Introduction to Linguistics)
- LING 2310 (Introduction to the Study of Language) (also listed as ENGL 2310 and HCOM 2310)

B. Phonology and Phonetics

- SPAN 3303 (Spanish Phonetics and Phonology)

C. Acquisition

- PSYC 2330 (Fundamentals of Cognition)

D. Syntax

- FREN 3301 (Advanced Grammar)
- GERM 3301 (Advanced German I)
- LATN 3301 (Latin Prose Composition)
- MATH 3326 (Introduction to Abstract Mathematics)
- RUSS 3301 (Advanced Russian I)
- RUSS 3302 (Advanced Russian II)
- SPAN 3301 (Advanced Grammar)

E. Semantics

- PHIL 3333 (Philosophy of Language)

SUPPORTING CURRICULUM

Classical Studies

- CLAS 3371 (Introduction to Romance Linguistics) (also listed as FREN 3371, ITAL 3371, LING 3371, and SPAN 3371)
- GREK 3302 (Attic Prose)
- GREK 3304 (Greek Historians)
Courses

LING-1300 Foundations of Linguistics

The course provides an introduction to linguistics, the analysis of human language as a rule governed system. It examines the core areas of language including phonology (the form and patterning of sounds), morphology (word structure), syntax (sentence structure) and semantics (word and sentence meaning).

LING-3-90 Directed Studies - Junior Level

Independent work under faculty supervision. The nature of the project will be agreed upon by the student and participating faculty member prior to registration. Credit varies from 1 to 4 semester hours, depending on the scope of the project.

Prerequisite: consent of instructor.

LING-4-90 Directed Studies - Senior Level

Independent work under faculty supervision. The nature of the project will be agreed upon by the student and participating faculty member prior to registration. Credit varies from 1 to 4 semester hours, depending on the scope of the project.

Prerequisite: consent of instructor.
Faculty

JANE B. CHILDERS, Ph.D., Associate Professor, Psychology; Chair

ROCIO DELGADO, Ph.D., Associate Professor, Education

ANDREW C. HANSEN, Ph.D., Associate Professor, Human Communication and Theatre

L. BROOKS HILL, Ph.D., Professor, Human Communication and Theatre

MARK C. LEWIS, Ph.D., Associate Professor, Computer Science

MICHAEL T. WARD, Ph.D., Associate Professor, Modern Languages and Literatures
Mathematics

Requirements

THE MAJOR

The requirements for the degree of Bachelor of Arts with a major in mathematics are as follows:

I. The common curriculum

II. Departmental requirements:
   a. Mathematics core: MATH 1307 or 1311, 1308 or 1312, 2321, 3323, 3326, 3360, 3362.
   b. Seminar/Writing: MATH 2094 (twice), 3194.
   c. Mathematics electives: Eighteen (18) additional MATH semester hours numbered above 3320. At least three (3) of them must be numbered 4xxx.
   d. Programming proficiency: CSCI 1320.
   e. Completion of the capstone courses: MATH 4394, or MATH 4398 and 4399.

III. Electives sufficient to total 124 semester hours.

The appropriate choice of courses beyond those in the core depends on the student's interests and career plans and should be determined in consultation with the academic adviser. Further course suggestions and other information appear on the department's Web site.

ACCEPTANCE INTO PROGRAM

FULL ACCEPTANCE is granted if the following requirements are met at the time of application:

1. MATH 1307 or 1311, 1308 or 1312, 2321, 3323 with grades of C or better.
2. Grade point average of at least 2.0 in all mathematics courses.
3. Completion of at least one mathematics course required for the major while enrolled at Trinity University.
4. CSCI 1320 with a grade of C or better.

PROVISIONAL ACCEPTANCE may be granted if the Department of Mathematics is convinced that the applicant has promise of graduating with a degree in mathematics. In cases of provisional acceptance, courses and performance standards will be specified so that the applicant may be granted full acceptance.

THE MINOR

A mathematics minor must complete MATH 1307 or 1311, 1308 or 1312, 2321, and nine (9) hours of upper division mathematics.

THE HONORS PROGRAM

Objectives

The Mathematics Department offers an Honors Program to provide students the opportunity to develop their capacity for mathematical skill and knowledge by completing a senior honors thesis. The thesis may be written in collaboration with any other university department that offers instruction. Specifics for interdisciplinary thesis must be worked out on an individual basis with the department.

Application and Procedures

Application for admission to the Honors Program is made through the department in the fall of the junior year. The University requires a 3.3 overall grade point average and two faculty letters of recommendation for admission to the program. In addition, the mathematics department requires at least 15 hours of work in mathematics courses as well as a 3.2 average on all work attempted in the department.

Before an application is submitted, the candidate must obtain the consent of a full time department member to serve as the thesis adviser. The application is then submitted to the thesis adviser who determines if the documentation merits further consideration. Given the judgment by the thesis adviser that the student is a good candidate for the thesis, the student, in collaboration with the adviser, prepares a description of the work proposed along with a bibliography. These documents are forwarded to the department faculty for approval. Given a positive recommendation from the faculty, the student is then an official candidate for departmental honors. At this point the department, in collaboration with the thesis adviser, recommends a thesis committee to the Office of Academic Affairs. The committee will consist of the thesis adviser, another mathematics department faculty member who serves as reader, and a third member who may be from another department or an expert from outside the University.

Requirements

The Honors Program requires a minimum of nine credit hours arranged over two or three semesters. Six of these hours must be taken in the senior year and devoted to work on the thesis. The remaining three hours must be taken in an upper division course completed by the end of the junior year in the area in which the thesis is to be written. The specific upper division course will be chosen with the consent of the adviser.

A final presentation of the completed thesis will be made to the department during the second semester of the student's senior year. After the presentation and a reading of the final thesis, the department will determine its acceptability for departmental honors. The accepted thesis will be sent to the Office of Academic Affairs for binding. The student will pay the cost of the binding. The completed thesis will be bound and placed in the Trinity University library.

For further information, contact the department at (210) 999-8205.

http://web.trinity.edu/x10492.xml?PrintFriendlyPage
11/21/2011
Courses

MATH-1190 Putnam Exam Seminar
This course involves preparation for the Putnam Exam. Topics include problem-solving applications of geometry, calculus, mathematical introduction, counting techniques, and more. The course may be repeated up to four times for credit. Fall.
Prerequisite: MATH 1307 or MATH 1311, concurrent, or consent of instructor.

MATH-1301 Pre-Calculus
Equations and inequalities; systems of linear equations. Polynomial and rational functions; trigonometric functions and identities; and transcendental functions. MATH 1301 provides a thorough preparation for Calculus 1.

MATH-1307 Calculus A
A study of functions, limits and continuity, differential and integral calculus. Motivation and support for these topics will draw from applications in the life sciences. In particular, topics in discrete dynamics, differential equations, polynomial approximation, regression, and matrix algebra will be used to support biological examples. MATH 1307 and 1311 cannot both be taken for credit.
Prerequisite: successful completion of MATH 1301 or passing of the Mathematics Placement Exam.

MATH-1308 Calculus B
Applications of calculus; topics include techniques of integration, ordinary differential equations, convergence of geometric series, probability, numerical analysis, and simulation. This course is designed to assist students in the applications of calculus to other disciplines.
Prerequisite: MATH 1307 or 1311 or the equivalent.

MATH-1310 Mathematics for Decision-Making
This course will examine a number of concepts, tools, and methods useful in the search for optimal solutions to a variety of problems, in the resolution of conflicts, and in the discernment of patterns or trends in raw data. Among the topics to be considered are routing problems, shortest networks and scheduling; the mathematics of voting and methods of apportionment; linear, exponential and logistic growth, chaos and symmetry; basic statistics: collection and description of data, and margin of error. Applications to fields like economics and political science will be emphasized, but the level throughout will be elementary.

MATH-1311 Calculus I
A study of functions including transcendental and trigonometric; Limits and continuity; differential and integral calculus; and applications. MATH 1307 and 1311 cannot both be taken for credit.
Prerequisite: MATH 1301 or the equivalent.

MATH-1312 Calculus II
A study of methods of integration, series, and an introduction of differential equations and linear algebra.
Prerequisite: MATH 1307 or 1311 or the equivalent.

MATH-1320 Statistical Methods
Methods of analyzing data, statistical concepts and models, estimation, tests of significance, and regression. MATH 1320 and 3320 cannot both be taken for credit.
Prerequisite: MATH 1307 or 1311 or the equivalent.

MATH-1330 Introduction to Modern Mathematics
A survey of modern mathematics. Topics to include infinity and infinities, the fourth dimension, fractional dimensions, fractals and chaos, pitfalls of statistics, and objects with fewer than the expected number of sides.

MATH-2094 Majors' Seminar
Attendance at the departmental seminar. Grade based on attendance. This course cannot be taken concurrently with MATH 3194, 3195, or 4394.

MATH-2303 Math for Elementary School Teachers
A course based on the National Council of Teachers of Mathematics standards designed to develop understanding of the algebraic principles essential for elementary school teachers. Topics include Problem Solving Strategies, Numbers and Numeration, Tests for Divisibility, Estimation and Electronic Computation, Introductory Probability and Statistics.
Prerequisites: satisfying the Mathematics Skill Requirement and EDUC 2201 or EDUC 2202 or the equivalent.
MATH-2321 Calculus III
The study of partial differentiation, multiple integrals, and vector calculus.
Prerequisite: MATH 1308 or 1312.

MATH-2324 Numerical Calculus
Introduction to the numerical algorithms fundamental to scientific computer work. Elementary error analysis, interpolation, quadrature, linear systems of equations, and introduction to the numerical solution of ordinary differential equations. (Also listed as CSCI 2324.) Spring.
Prerequisites: MATH 1307 or 1311 or the equivalent and knowledge of computer programming.

MATH-3194 Junior Writing Workshop
Students work to improve their mathematical skills as well as their writing and presentation skills. They will be required to submit computer solutions to several math problems. They will attempt to solve a mathematical problem and will present their findings in both written and oral form. Attendance at the Majors' Seminar (MATH 2094) is required.

MATH-3195 Junior Technology Workshop
Students work to improve their mathematical software skills as well as their writing and presentation skills. They will be required to submit computer solutions to several mathematical problems. They will also be required to read a referred mathematics journal article and present their findings in both written and oral form. Attendance at the Majors' seminar (MATH 2094) is required.
Prerequisite: MATH 3194.

MATH-3316 Differential Equations and Linear Algebra
The theory and applications of first order equations, linear second order equations, linear systems of equations, Laplace transforms, the eigenvalue problem, matrix algebra, and vector spaces. MATH 3316 and MATH 3366 may not both be taken for credit.
Prerequisite: MATH 1308 or 1312.

MATH-3320 Probability and Statistics for Engineers And Scientists
An introduction to statistics specifically for engineers and scientists. Topics include probability, random variables and their distributions, univariate and multivariate distributions, sampling distributions, estimation, hypothesis tests, confidence intervals, simple and multiple regression, analysis of variance, and reliability. Fall.
Prerequisite: MATH 2321.

MATH-3323 Linear Algebra
A study of the theory and computations of linear algebra. Topics include matrix and vector operations, least squares, linear transformations, eigenvalues and eigenvectors. Fall.
Prerequisite: MATH 1308 or 1312 or consent of instructor.

MATH-3326 Introduction to Abstract Mathematics
This course begins with an elementary survey of logic and set theory. From there, the course introduces the concept of the mathematical proof, framed in introductions to the real line, point set topology, and modern algebra. This course is offered every semester.
Prerequisite: MATH 1308 or 1312 or equivalent, or consent of instructor.

MATH-3327 Probabilistic Models In Life Sciences
An introduction to probabilistic modeling with emphasis on its use in biology. Fundamental concepts such as conditional probability and conditional expectation are studied in depth in order to prepare for an introduction to the theory and applications of Markov chains. Applications in biology may include birth-and-death processes, branching processes, sequence alignment, population genetics, epidemic processes, molecular evolution, and phylogenetic tree construction. Spring.
Prerequisite: MATH 1320 or MATH 3320 or MATH 3334.

MATH-3328 Mathematical Models In Life Sciences
The course is designed to introduce advanced tools to study discrete mathematical models in the life sciences including their practical applications. The focus will be on understanding the processes, implications, and results of modeling phenomena in life sciences in the laboratory setting or field. The course investigates exponential growth and logistic models, competitive and predatory-prey models, age structured models, harvesting models, and epidemiological models. The integrated laboratory experience consists of several experiments on model organism such as bacteria and protists. In addition, human epidemiological data will also be utilized.
Prerequisite: MATH 1307 or 1311, and MATH 1308 or 1312.

MATH-3334 Probability
This course covers the basic concepts of probability, including counting methods, events, conditional probability, discrete and continuous random variables and their distributions, multivariate distributions, commonly used discrete and continuous distributions, functions of random variables, expectation, variance, and correlation. Fall.
Prerequisite: MATH 2321.
MATH-3335 Mathematical Statistics
This course covers the basic concepts of statistics, including samples, statistics, estimation, sampling distribution of estimators, confidence intervals, tests of hypotheses, significance, power, and simple linear regression. Additional topics may include Bayesian statistics, analysis of variance, and nonparametric methods. Spring.
Prerequisite: MATH 3334.

MATH-3338 Mathematical Modeling
Formulation, analysis, and interpretation of models arising in the life, physical, or social sciences. The actual source for the models will depend upon the interests of the instructor. Mathematical topics will include one or more of the following areas: linear algebra, differential equations, difference equations, numerical analysis, statistics, stochastic processes, and optimization. Fall.
Prerequisites: MATH 2321, 3316, or 3366, and knowledge of computer programming, or consent of instructor.

MATH-3341 Number Theory I
A study of the arithmetic properties of the ring integers. Topics may include factorization, modular arithmetic, solution of polynomial congruences, the law of quadratic reciprocity, Diophantine equations, and applications to cryptography.
Prerequisite: MATH 3326 or consent of instructor.

MATH-3343 Combinatorics I
A study of the theory and problem-solving techniques of algebraic and enumerative combinatorics. Topics include basic enumeration and the combinatorial proofs, the binomial theorem, recurrence relations, generating functions, and inclusion-exclusion. Fall, alternate years.
Prerequisite: MATH 3326 or consent of instructor.

MATH-3351 Numerical Analysis I
Methods of solution of algebraic and transcendental equations, simultaneous linear algebraic equations, numerical integration and differentiation, initial and boundary value problems of ordinary differential equations. (Also listed as CSCI 3351.) Spring.
Prerequisite: MATH 3316 and knowledge of computer programming.

MATH-3352 Numerical Analysis II
Prerequisite: MATH 3351.

MATH-3355 Non-Euclidean Geometry
Topics include the fifth postulate of Euclid, hyperbolic geometry of Lobachevsky, elliptic geometry of Riemann. Spring, alternate years.
Prerequisite: MATH 3326 or consent of instructor.

MATH-3357 Partial Differential Equations
The heat, wave and Laplace equations and boundary value problems, the method of separation of variables, special functions, orthogonal expansion, Sturm-Liouville theory, the Fourier and Laplace transform methods. Additional topics may include Green's functions, Poisson's integral formula for the disk and variational calculus if time permits.
Prerequisites: MATH 2321 and 3316 or 3366.

MATH-3359 Difference Equations
Dynamics of first order difference equations, difference equations of higher order, stability analysis, methods of Z-transform. Offered infrequently.
Prerequisite: MATH 3316 or 3323.

MATH-3360 Real Analysis I
An introduction to the real number system, elementary topology of Euclidean spaces, calculus of real-valued functions of one and several variables including a rigorous development of limits, continuity, differentiation and integration. Fall.
Prerequisite: MATH 3326.

MATH-3362 Modern Algebra I
A study of the theory of groups, rings, and fields. Spring.
Prerequisite: MATH 3326.
MATH-3366 Differential Equations
Introduction to the basic quantitative and qualitative concepts of differential equations. Topics include first order differential equations, second order differential equations and applications, Laplace transforms, and systems of differential equations. MATH 3316 and MATH 3366 may not both be taken for credit. Spring, infrequently.
Prerequisite: MATH 3323.

MATH-3-90 Reading and Conference
Course will vary in credit according to scope of work included.
Prerequisite: consent of instructor.

MATH-3391 Special Topics
Special topics not covered by courses described in the Courses of Study Bulletin. Announcements of this course will be made by special prospectus. The course may be repeated for credit on different topics.

MATH-4324 Linear Algebra II
Topics beyond MATH 3323, which may include canonical forms, spectral decompositions, analysis of linear systems, and matrix norms. Fall, alternate years.
Prerequisite: MATH 3323 or consent of instructor.

MATH-4336 Stochastic Processes
An Introduction to the theory and applications of stochastic processes. Topics may include processes, random walks, Markov chains in discrete and continuous time, branching processes, queuing systems, and Brownian motion. Spring, alternate years.
Prerequisite: MATH 3320 or 3334, or consent of instructor.

MATH-4342 Number Theory II
Topics beyond MATH 3341, which may include the theory of fractional ideals in number fields, arithmetic functions and Dirichlet series, distribution of primes, and the prime number theorem. Spring, alternate years.
Prerequisites: MATH 3341 and MATH 3360 or 3362, or consent of instructor.

MATH-4344 Combinatorics II
Topics beyond MATH 3343, which may include Polya counting, partition theory, special functions, the R-S-K algorithm, combinatorial species, and other advanced topics in algebraic and enumerative combinatorics. Spring, alternate years.
Prerequisite: MATH 3343 or consent of Instructor.

MATH-4361 Real Analysis II
Topics beyond MATH 3360, which may include measure, Lebesgue theory, Banach and Hilbert spaces, manifolds, and differential forms. Spring, alternate years.
Prerequisite: MATH 3360.

MATH-4363 Modern Algebra II
Topics beyond MATH 3362, which may include field and ring theory, representation theory, Galois theory, additional algebraic structures, and applications to other branches of mathematics. Fall, alternate years.
Prerequisite: MATH 3323 and 3362.

MATH-4364 Theory of Complex Variables
A study of functions of a single complex variable including properties of complex numbers, analytic functions, contour integration and Cauchy's theorem, Taylor and Laurent series, the calculus of residues and applications. Additional topics may include conformal mappings, analytic continuation, Rouche's theorem, and infinite products. Fall, alternate years.
Prerequisites: MATH 3360 or consent of instructor.

MATH-4365 Topology
Introduction to the study of basic topological concepts including topological spaces, continuous functions, homeomorphisms, separation properties, connectedness, and compactness. Additional topics may be chosen from algebraic or geometric topology. Fall, alternate years.
Prerequisite: MATH 3360 or 3362, or consent of instructor.

MATH-4367 Dynamical Systems
Topics beyond MATH 3366, which may include chaos theory, bifurcation, and discrete continuous systems. Offered infrequently.

Prerequisites: MATH 3360 and 3366, or consent of instructor.

MATH-4391 Special Topics
This course will treat special topics not covered by courses described in the Courses of Study Bulletin. Announcements of such courses will be by special prospectus. This course may be repeated for credit on different topics.

MATH-4394 Senior Project
Independent project under faculty supervision. Oral and written presentation of results and attendance at the Majors' seminar (MATH 2094) are required.
Prerequisite: MATH 3195 and senior standing.

MATH-4396, 4399 Honors Thesis
Individual research and scholarly investigation under faculty supervision leading to the preparation of an Honors Thesis. To be taken only by senior Honors students in both semesters of their Senior year.
Prerequisite: senior standing.

Faculty
EDUARDO CABRAL BALREIRA, Ph.D., Assistant Professor
RYAN DAILEDA, Ph.D., Associate Professor
SABER ELAYDI, Ph.D., Professor
JULIO ROBERTO HASFURA-BUENAGA, Ph.D., Associate Professor
EDDY KWESSI, Ph.D., Assistant Professor
NATASA MACURA, Ph.D., Associate Professor
BRIAN MICELI, Ph.D., Assistant Professor
PETER OLOFSSON, Ph.D., Professor; Chair
DIANE G. SAPHIRE, Ph.D., Associate Professor; Associate Vice President for Information Resources; Director, Institutional Research
TRINITY UNIVERSITY

Courses of Study 2011 - 2012

Medieval and Renaissance Studies

Overview

The minor in Medieval and Renaissance Studies is an interdisciplinary program with the following objectives: (a) discovery and re-examination of knowledge about the Middle Ages and the Renaissance and (b) employment of a variety of methods of historical and theoretical analysis as models for such scholarship.

Completion of this program will be indicated on the student's transcript with the notation "Minor in Medieval and Renaissance Studies."

Students interested in a Medieval and Renaissance Studies minor should submit an application to the Chair of the Committee, who will assign a faculty adviser to the student.

Requirements

The requirements for a minor in Medieval and Renaissance Studies are as follows:

I. A total of 18 semester hours, including at least 12 hours from the Primary Curriculum and the remainder from the Supporting Curriculum (upon recommendation by the Chair of the Committee, a student may be permitted to substitute one or more of her appropriate courses). Two of the three MDRS core courses from the list below (MDRS 2301, 2302, and 2303) are required of all students for the minor.

II. At least 6 hours from the Primary Curriculum must be in Medieval courses and at least 6 hours from the Primary Curriculum must be in Renaissance courses.

III. At least 9 semester hours of the total to be in upper division courses.

IV. No more than 6 semester hours from the Primary Curriculum and Supporting Curriculum to overlap with the student's primary major.

V. No more than 12 semester hours from the Primary Curriculum and Supporting Curriculum to be taken in any one department.

Students are encouraged to prepare themselves in modern European languages (normally French, German, Italian, and/or Spanish), as well as in Latin and Greek.

I. Primary Curriculum

M = counts toward the Medieval requirement
R = counts toward the Renaissance requirement
MR = counts toward either the Medieval or the Renaissance requirement

ARTH 1314 (Art and Architecture of Medieval Europe) (M)
ARTH 3340 (Northern Renaissance Art in the Fifteenth Century) (MR)
ARTH 3344 (Northern Renaissance Art in the Sixteenth Century) (R)
ARTH 3341 (Early Renaissance Art in Italy) (R)
ARTH 3342 (High Renaissance Art and Mannerist Art in Italy) (R)
ARTH 3391 (Special Topics in Art History: Michelangelo) (R)
ARTH 3391 (Jan van Eyck and His Legacy) (MR)
ARTH 3392 (Women's Studies in Art History: Gender and Sexuality in Early Modern Italy) (MR)
ENGL 2306 (Medieval Imagination) (M)
ENGL 3346 (History of the English Language) (MR)
ENGL 3355 (Introduction to Old and Middle English Philology) (M)
ENGL 3356 (Readings in Old English Literature) (M)
ENGL 3357 (English Literature of the Late 14th Century) (M)
ENGL 3358 (Medieval and Early Renaissance Drama) (MR)
ENGL 3359 (Medieval Literature: The World of King Arthur) (M)
ENGL 3359 (Medieval Literature: Sir Gawain and the Green Knight and Medieval Romance) (M)
ENGL 3362 (Early Modern British Literature, 1485-1603) (R)
ENGL 3363 (Early Modern British Literature, 1603-1660) (R)
ENGL 4301 (Geoffrey Chaucer) (M)
ENGL 4302 (Elizabethan and Jacobean Playwrights) (R)
ENGL 4320 (Studies in Early Modern British Literature: The Performance of Gender, Wyatt to Shakespeare) (R)
ENGL 4320 (Studies in Early Modern British Literature: Shakespeare's Sonnets and the Subject of Sexuality) (R)
FREN 4301 (Medieval French Literature) (M)
FREN 4302 (Topics in French Literature of the Sixteenth Century) (R)
HIST 1332 (Medieval Europe) (M)
HIST 1333 (Medieval Christianity: Tradition and Transformation, 200-1200) (M)
HIST 1350 (Medieval Islamic History, 670-1517) (M)
HIST 3331 (The Anglo-Saxons: Scholars, Saints and Warriors) (M)
HIST 3350 (The Arab Cultural Tradition) (MR)
PHIL 3322 (Early Modern Philosophy) (R)
SPAN 4331 (Medieval Spanish Literature) (M)
SPAN 4332 (Spanish Golden Age Literature) (R)
SPAN 4333 (Don Quixote) (R)
SPAN 4391 (Special Topics: History of the Spanish Language) (MR)

II. Supporting Curriculum

ARTH 1307 (Art History I: Prehistoric through Medieval Art)
ARTH 1308 (Art History II: Renaissance to Modern Art)
ARTH 3330 (Art and Architecture in the Late Classical World)
ARTH 3345 (Spanish Colonial Art and Architecture in Mexico)
CLAS 3304 (The Ancient Romance and Novel)
ENGL 2301 (British Literature: Epic to Romantic)
ENGL 4303 (Milton)
ENGL 4320 (Studies in Early Modern Literature: The Literature of the English Civil Wars)
ENGL 4326 (Seminars on Individual Authors: John Donne)
ENGL 4326 (Seminars on Individual Authors: Edmund Spenser)
FREN 3305 (Introduction to French Literature I)
FREN 4303 (Topics in French Literature of the Seventeenth Century)
GERM 3303 (German Civilization and Culture)
GERM 3305 (Introduction to German Literature I)
GERM 4303 (Readings in the New Testament)
HIST 1334 (Early Modern Europe) (1500-1815)
HIST 3314 (The Mediterranean World in the Hellenistic Age)
HIST 3318 (The Roman Empire)
MUSC 3341 (Music History I)
PLSI 3361 (Classical Political Thought)
RELI 1340 (Islam, Judaism, and Christianity)
RELI 3341 (The Jewish Tradition)
RELI 3342 (The Christian Tradition)
RELI 3343 (Classical Islam)
RELI 3354 (The Letters of Paul)
RUSS 3303 (Russian Culture)
RUSS 3305 (Introduction to Russian Literature I)
SPAN 3311 (Spanish Civilization)
SPAN 3331 (Introduction to Spanish Literature)
SPAN 4301 (Spanish Phonetics and Phonology)
SPAN 4341 (Literature of Colonial Spanish America)
THTR 3333 (History of Theatre and Drama)

Courses

MDRS-2301 Topics in Medieval Studies
Selected topics on some aspect of Medieval Studies, focusing on the intersections of texts, visual art, history, politics, philosophy, religion, and culture. May be repeated when topics vary.

MDRS-2302 Topics in Renaissance Studies
Selected topics on some aspect of Renaissance and Early Modern Studies, focusing on the intersections of texts, visual art, history, politics, philosophy, religion, and culture. May be repeated when topics vary.

MDRS-2303 Topics in Medieval and Renaissance Studies
Selected topics integrating aspects of Medieval and Renaissance/Early Modern Studies, focusing on the intersections of texts, visual art, history, politics, philosophy, religion, and culture. May be repeated when topics vary.
Faculty

LAURA AGOSTON, Ph.D., Associate Professor, Art History; Chair

DOUGLAS BRINE, Ph.D., Assistant Professor, Art History

DAMIAN CALUORI, D.Phil., Assistant Professor, Philosophy

ANGELA FLORSCHUETZ, Ph.D., Assistant Professor, English

NICOLE MARAFIOTI, Ph.D., Assistant Professor, History

KIMBERLY W. MONTFORD, Associate Professor, Music

JEFFREY RUFO, Ph.D., Assistant Professor, English

WILLIS A. SALOMON, Ph.D., Associate Professor, English
Courses of Study 2011 - 2012

Modern Languages and Literatures

Overview

The Department of Modern Languages and Literatures offers courses leading to the degree of Bachelor of Arts with a major in Chinese, French, German, Russian, or Spanish. Programs are also available in French, German, and Spanish as teaching fields under the interdepartmental major for teachers in secondary schools. Arabic and Italian are offered on the elementary and intermediate levels. Courses in Greek and Latin are the responsibility of the Department of Classical Studies.

Requirements

THE MAJOR

In order to be granted full acceptance for admission to a major in Chinese, French, German, Russian, or Spanish, a student must have completed the 3301 course in that language with a grade of C or better.

CHINESE

The requirements for the degree of Bachelor of Arts with a major in Chinese are as follows:

I. The common curriculum

II. Departmental requirements:

A. Completion of 21 semester hours of upper division courses taught in Chinese, including:
   1. CHIN 4351
   2. CHIN 4360

B. Completion of one of the following additional requirements:
   1. Nine additional semester hours of upper division courses in Chinese.
   2. The lower division courses, or the equivalent, and at least 3 semester hours of upper division courses in a second foreign language.

C. Completion of at least one semester or summer abroad in a Chinese-speaking country.

FRENCH

The requirements for the degree of Bachelor of Arts with a major in French are as follows:

I. The common curriculum

II. Departmental requirements:

A. Completion of 21 semester hours of upper division courses, including:

   1. FREN 3301
      This course, with a grade of "C" or above, is required for admission to the French major. It must be taken at Trinity University with the following exceptions:
      a. A student receives a 5 on the College Board Advanced Placement exam or a 6 or 7 on the International Baccalaureate exam;
      b. A student takes an advanced French grammar course elsewhere (including abroad) and then takes the final exam for FREN 3301 at Trinity and passes it with a grade of "C" or above. Students will receive advanced French credit for such courses taken elsewhere, but the course will not be designated as FREN 3301 unless they take the final exam for FREN 3301 and receive at least a "C."

   2. FREN 3305
   3. FREN 3306

B. Completion of one of the following additional requirements:
   1. Nine additional semester hours of upper division courses in French; OR
   2. The lower division courses, or the equivalent, and at least 3 semester hours of upper division courses in a second foreign language.

GERMAN

The requirements for the degree of Bachelor of Arts with a major in German are as follows:
I. The common curriculum

II. Departmental requirements:

A. Completion of 21 semester hours of upper division courses including GERM 3301 and either 3305 or 3306.

B. Completion of one of the following additional requirements:

1. Nine additional semester hours of upper division courses in German. Students have the option of substituting ML&L 3320 for three of the 9 hours; OR
2. The lower division courses, or the equivalent, and at least 3 semester hours of upper division courses in a second foreign language.

RUSSIAN

The requirements for the degree of Bachelor of Arts with a major in Russian are as follows:

I. The common curriculum

II. Departmental requirements:

A. Completion of 21 semester hours, of which no more than 3 may be lower division (2302). Upper division hours will include:

1. RUSS 3301
2. RUSS 3305

The RUSS 3305 requirement will be waived for students who have taken ML&L 3340.

B. Completion of one of the following additional requirements:

1. Nine additional semester hours of upper division courses in Russian.

Students have the option of substituting up to 9 semester hours from the following courses: ARTH 3362; ECON 3327; HIST 3311; PLSI 3335; OR
2. The lower division courses, or the equivalent, and at least 3 semester hours of upper division courses in a second foreign language.

SPANISH

The requirements for the degree of Bachelor of Arts with a major in Spanish are as follows:

I. The common curriculum

II. Departmental requirements:

A. Completion of 21 hours, of which no more than 3 may be lower division (2302) and no more than 3 may be taken as Internship. Upper division hours will include:

1. SPAN 3301
2. SPAN 3330 or 3331
3. SPAN 3332

B. Completion of one of the following additional requirements:

1. Nine additional semester hours of upper division courses in Spanish (students have the option of substituting up to three hours of Spanish across the Curriculum courses); OR
2. The lower division courses, or the equivalent, and at least three semester hours of upper division courses in a second foreign language.

THE MINOR

The requirements for a minor in Chinese, French, German, Russian, and Spanish are as follows: Completion of at least 18 semester hours, of which no more than 6 may be lower division. A minimum of 12 hours toward the minor must be completed at Trinity.

TRANSFER CREDIT

In conjunction with the Registrar's Office, transfer credit for language courses must be evaluated and approved by the language section in addition to the chair of the department. Such evaluation may include, but need not be limited to, the syllabus for the course and the test required of students showing competency in the language.

THE HONORS PROGRAM

I. University requirements

II. Departmental requirements:

The Department of Modern Languages and Literatures offers an Honors Program in Chinese, French, German, Russian, and Spanish. The requirements for Honors in Modern Languages and Literatures are the same as the university requirements. A full description of the program is available in the departmental office.

SELF-INSTRUCTIONAL LANGUAGE PROGRAM

The Department of Modern Languages and Literatures offers self-instructional courses in critical languages of global and economic importance. Although students will meet with a native-speaking tutor for 2 hours per week, the self-instructional nature of these courses demands that students have a demonstrated ability to learn a foreign language and be highly motivated and disciplined. Registration is by consent of the Director only. The courses for which students may enroll are the following:

SILP 1301 (Beginning Self-Instructional Language I)
SILP 1302 (Beginning Self-Instructional Language II)
SILP 2301 (Intermediate Self-Instructional Language I)
SILP 2302 (Intermediate Self-Instructional Language II)

Upon registration, the name of the course to appear on the transcript will be changed to reflect the language studied, for example:

SILP 1301 (Beginning Japanese I)

None of these courses may count toward fulfillment of the university language requirement.

MODERN LANGUAGES AND LITERATURES:
Taught in English and works read are in English.

**Plan of Lower Division Language Courses**

1000-level courses are beginning courses. Emphasis is on the spoken language, with extensive use of dialogues and drills designed to illustrate the basic structural features of the language and to develop oral proficiency. 1301, 1401, and 1501 courses are normally offered only in the fall semester, 1302, 1402, and 1502 courses only in the spring. 1403 and 1600 courses may be offered in both semesters.

Courses numbered 1402 are a continuation of 1401 and will generally complete the study of the basic grammatical features of the language.

Courses numbered 2301 and 2302 consist of intermediate level language study, focusing on speaking, reading, grammar, writing, and comprehension. Except for SPAN 2301, courses numbered 2301 are normally offered only in the fall semester.

Language courses 1401, 1402, 1403, 1600, or 2301 may be taken pass/fail unless the student is using them to satisfy the skill requirement of the Common Curriculum.

**Courses**

**MODERN LANGUAGES AND LITERATURES:**

Taught in English and works read are in English.

**ML&L-1303 Japanese Perspectives**

This course introduces the student to Japanese culture in its religious, political, aesthetic, and social dimensions especially as each is affected by Western influences. (Also listed as ANTH 1303 and GNED 1303.)

**ML&L-2301 International Cinema**

This course focuses on the cultural and critical analysis of international films as an expression of particular artistic genres and/or styles within specific historical, ideological, and cultural contexts. Films selected have achieved wide, critical acclaim; others reveal unique and important visions of human experience; while others are selected for their political, ideological, or sociological significance. Students should develop an awareness that the medium of film has a history and that its history is not confined to national boundaries. (Also listed as ARTH 2301, COMM 2301, ENGL 2301, and FILM 2301.)

**ML&L-3310 French Literature in Translation**

A study of major works of French literature in the context of Western literary, political, and cultural history, and literary criticism.

**ML&L-3311 German Literature in Translation**

A study of major works of German literature in the context of Western literary, political, and cultural history, and literary criticism.

**ML&L-3320 German Literature in Translation**

A study of major works of German literature in the context of Western literary, socio-political and cultural history, and literary criticism.

**ML&L-3321 German Cinema**

This course will examine a variety of French films from the 1930s to the present, focusing on developing an understanding of the aesthetic qualities of the individual films, while also examining the history of French cinema, how cinema conveys meaning, and how the specificity of French culture is depicted in the films.

Prerequisite: sophomore standing or above.

**ML&L-3320 German Literature in Translation**

A study of major works of German literature in the context of Western literary, socio-political and cultural history, and literary criticism.

**ML&L-3330 Japanese Literature in Translation**

Japanese culture through the major works in Japanese Literature and its major religions, Shinto and Buddhism. The interrelationship of the art/architecture is also highlighted. Reading include early poetry and novels, the rise of drama, haiku, and twentieth century novels.

**ML&L-3340 Russian Literature in Translation I**

A study of major works of Russian literature from the early 1900s. RUSS 3305 and ML&L 3340 cannot both be taken for credit.
A study of major works of Russian literature from the early 1900s to the present day. RUSS 3308 and ML&L 3341 cannot both be taken for credit.

ML&L-3342 The Peoples of Russia
An introduction to Russian culture from medieval through modern times, including not only the Russians, but also the peoples of southern and eastern Russia. The course will emphasize religion, folklore and art.

ML&L-3-91 Selected Topics
Special study in fields not covered by other courses. May be repeated on different topics.

ARABIC

ARAB-1401 Beginning Modern Standard Arabic I
Beginning Modern Standard Arabic I. 4 class hours a week.

ARAB-1402 Beginning Modern Standard Arabic II
Beginning Modern Standard Arabic II. 4 class hours a week.
Prerequisite: ARAB 1401 or the equivalent.

ARAB-2301 Intermediate Modern Standard Arabic I
Intermediate Modern Standard Arabic I. 3 class hours a week.
Prerequisite: ARAB 1402 or the equivalent.

ARAB-2302 Intermediate Modern Standard Arabic II
Intermediate Modern Standard Arabic II. 3 class hours a week.
Prerequisite: ARAB 2301 or the equivalent

CHINESE

LOWER DIVISION

CHIN-1401 First Year Chinese I
Modern Standard Chinese (Mandarin). 4 class hours a week. (Not open to native speakers of Mandarin.)

CHIN-1402 First Year Chinese II
Modern Standard Chinese (Mandarin). 4 class hours a week. (Not open to native speakers of Mandarin.)
Prerequisite: CHIN 1401 or the equivalent.

CHIN-2401 Second-Year Chinese I
Modern Standard Chinese (Mandarin).
Prerequisite: CHIN 1402 or the equivalent.

CHIN-2402 Second-Year Chinese II
Modern standard Chinese (Mandarin).
Prerequisite: CHIN 2401 or the equivalent.

CHIN-2311 Chinese Civilization
A topical approach to the study of both traditional and modern Chinese thought systems, with readings drawn mainly from original sources in translation. Course taught in English.
CHIN-3301 Third-Year Chinese I
Continued study of Chinese grammar and colloquial speech patterns.
Prerequisite: CHIN 2402 or the equivalent, or consent of instructor.

CHIN-3302 Third-Year Chinese II
Continuation of CHIN 3301.
Prerequisite: CHIN 3301 or the equivalent, or consent of instructor.

CHIN-3304 Chinese Calligraphy
A survey of the major script styles in the Chinese writing system. While tracing the history of Chinese calligraphy, the class will also explore theoretical issues including representation, expression, formalism, and contemporary approaches relating to the practice of calligraphy. In-class work will give students hands-on experience using traditional Chinese. The course will be taught in English. (Also listed as ML&L 3304.)
Prerequisite: CHIN 2302 or consent of instructor.

CHIN-3312 Chinese Cinema: a Historical and Cultural Perspective
A study of Chinese culture and socio-political changes in the modern history of China, Taiwan and Hong Kong through viewing, discussing and analyzing contemporary films. Course taught in English.
Prerequisite: CHIN 2402 or the equivalent.

CHIN-3313 Cities of Strangers: Trans-Cultural Chinese Cinema
A cinema course with a focus on genres contributing to the popular imagination about cities such as Beijing, Shanghai, Hong Kong, and Taipei. Examples will be drawn from martial arts films, gangster films, ghost stories, and "exile" films. Major theoretical concerns are cultural stereotyping, politics of representation, and the appropriation of gender discourses. Courses taught in English.

CHIN-3320 The Rise of Modern China
Studies of modern Chinese history since 1800, with emphasis on the processes of modernization, the major phases of the Chinese revolution from the experience with Western imperialism through the Republic period and the emergence of the People's Republic of China. Class methods emphasize reading primary sources in translation and research and writing. Course taught in English. (Also listed as HIST 1320.)
Prerequisite: HIST 1320 or consent of instructor.

CHIN-3328 The Philosophies of China
A study of the three major indigenous philosophical movements in China: Confucianism, Taoism, and Neo-Confucianism. Special attention will be paid to themes and problems common to all three movements, including: the metaphysics of harmony and conflict, the individual and society, the cultivation of human virtues and human perfectibility, and humankind's relation to nature. Course taught in English. (Also listed as PHIL 3328.)
Prerequisite: PHIL 1301.

CHIN-3330 Global Business Culture
This course provides students with a critical and comprehensive understanding of culture-related theories and how they are applied in practice from the perspective of international managers. Emphasis is on the business culture in China in comparison to that in other countries, particularly to that in the United States. Course taught in English. (Also listed as BUSN 3330.)
Prerequisites: junior standing and 6 hours of Business Administration or 6 hours of Chinese or consent of instructor.

CHIN-3333 Chinese Religions
A study of the indigenous religious traditions of China in cultural and historical perspective, including Religious Taoism, Confucianism, and Yin-Yang cosmology. Topics for discussion will include cosmology, ritual and myth, religious self-cultivation, and the interaction between humankind and the sacred. Course taught in English. (Also listed as RELI 3333.)
Prerequisite: RELI 1330 or consent of instructor.

CHIN-3363 International Business Research
A systematic examination of business research as a science and the diverse research methods available to conduct international business research, including coverage of both qualitative and quantitative techniques. Emphasis is upon data collection and interpretation within the context of China and the United States. Course taught in English. (Also listed as BUSN 3363.)
Prerequisite: junior standing and consent of instructor.

CHIN-4130 Quanqiu Shangwu Wenhua-Zhong-Mei Jiaodian (Global Business Culture)
A companion course to BUSN/CHIN 3330 which examines the diverse business culture in China in comparison to that in other countries, particularly in the United States. This course must be taken concurrently with BUSN/CHIN 3330 and will be taught entirely in Chinese. Students must have the ability to write and converse in Chinese. (Also listed as BUSN 4130 and INTL 4130.)
Prerequisites: senior standing, CHIN 3302 or the equivalent, and consent of instructor.
Corequisite: BUSN 3330 or CHIN 3330.

CHIN-4301 Fourth-Year Chinese I
Continued study of Chinese grammar and colloquial speech patterns.
Prerequisite: CHIN 3302 or the equivalent.

CHIN-4302 Fourth-Year Chinese II
Continuation of CHIN 4301.
Prerequisite: CHIN 4301 or the equivalent.

CHIN-4310 Advanced Conversation and Composition
An advanced course in Chinese conversation and composition using a variety of Internet media.
Prerequisite: CHIN 3302 or the equivalent.

CHIN-4321 Readings in Modern Chinese Literature
A study of selected works of modern Chinese literature. May be taken more than once, provided topics vary.
Prerequisite: CHIN 3302 or the equivalent.

CHIN-4322 Readings in Contemporary Chinese Cinema
This course provides a focused study of ten well-known films produced within recent decades by filmmakers from Mainland China and Taiwan. The films explore both urban and rural life, covering a wide range of topics such as education, family, revolution, modernization, and gender. Students will discuss, in both written and spoken Chinese, a variety of social topics central to studies of China. They will also complete an independent project and learn to appreciate films as historical and artistic constructs.
Prerequisite: CHIN 3302 or the equivalent, or consent of instructor.

CHIN-4351 Classical Chinese
A study of classical Chinese grammar with selected readings from classical Chinese literature.
Prerequisite: CHIN 2402 or the equivalent.

CHIN-4360 Senior Seminar
An in-depth study of selected themes or authors in modern or contemporary Chinese literature and culture.
Prerequisite: senior status.

CHIN-4362 International Branding
Strategic and critical examination of how brands, including corporate and product brands, are managed in a global environment from a multinational organization's viewpoint. Emphasis is placed on international brands in China and Chinese brands in other countries. Course taught in English. (Also listed as BUSN 4362.)
Prerequisites: senior standing and consent of instructor.

CHIN-4364 Internationalizing Intellectual Property
Examines theories and strategic significance of intellectual property within a global environment. Intellectual property such as patents, marks, industrial designs, and trade secrets are examined with an emphasis placed upon strategic and managerial intellectual property issues between the United States and China. Course taught in English. (Also listed as BUSN 4364.)
Prerequisites: senior standing and consent of instructor.

CHIN-4-90 Readings and Conference
Individual work under faculty supervision not covered by other courses.
Prerequisites: 6 upper division hours in Chinese and approval of Department Chair.

**CHIN-4-91 Selected Topics**

Special study in fields not covered by other courses. Variations in credit according to work performed, from 1-6 hours. May be taken more than once, provided topics vary.

**CHIN-4-97 Chinese Internship**

Supervised activities in Chinese appropriate to the students' abilities and interest. In the case of local internships, this will include periodic on campus meetings with the internship supervisor to integrate internship experience with study of Chinese language. Internships abroad will require periodic reports by email or facsimile. All internships must lead to the creation of a final product such as an oral or written report. Up to 3 credits. Pass/Fail.
Prerequisite: approval of internship supervisor.

**FRENCH**

**LOWER DIVISION**

**FREN-1401 Elementary French I**

4 class hours a week for one semester.

**FREN-1402 Elementary French II**

4 class hours a week for one semester.

**FREN-2301 Intermediate French I**

Prerequisite: FREN 1402 or the equivalent.

**FREN-2302 Intermediate French II**

Prerequisite: FREN 2301 or the equivalent.

**UPPER DIVISION**

**FREN-3301 Advanced Grammar**

Intensive review of the rules of French grammar, as well as exceptions thereto; practical application through written and oral exercises and through reading of text materials suitable to the needs of the class.
Prerequisite: FREN 2302 or the equivalent.

**FREN-3303 French Civilization**

A study of contemporary France through a variety of perspectives, including historical background, cultural, intellectual, and political traditions, and the Francophone world.
Prerequisite: FREN 2302 or the equivalent, or consent of instructor.

**FREN-3305 Introduction to French Literature I**

A study of major works of French literature through the eighteenth century in the context of Western literary, political, and cultural history, and literary criticism.
Prerequisite: FREN 2302 or consent of instructor.

**FREN-3306 Introduction to French Literature II**

A study of major works of French literature from the nineteenth century to the present in the context of Western literary, political, and cultural history, and literary criticism.
Prerequisite: FREN 2302 or consent of instructor.

**FREN-3371 Introduction to Romance Linguistics**
A study of the science of language as it applies to those tongues having their origin in spoken Latin, principally French, Italian, Portuguese, Rumanian, and Spanish. Attention will be given both to historical developments and to the current situations of such languages. (Also listed as CLAS 3371, ITAL 3371, and SPAN 3371).

Prerequisite: two years or the equivalent of Latin, Ancient Greek, or a Romance language.

FREN-3-98 Honors Readings
Independent study in selected areas in preparation for Honors Thesis.
Prerequisite: admission to Honors Program.

FREN-4301 Medieval French Literature
A study of the masterpieces of medieval French literature including such works as La Chanson de Roland, Yvain, Les Lais de Marie de France, Le Roman de la Rose, etc.
Prerequisites: FREN 3305, 3306, or the equivalent, or consent of instructor.

FREN-4302 Topics in French Literature of the Sixteenth Century
May be taken more than once, provided topics vary.
Prerequisite: FREN 3305, 3306, or the equivalent, or consent of instructor.

FREN-4303 Topics in French Literature of the Seventeenth Century
May be taken more than once, provided topics vary.
Prerequisite: FREN 3305, 3306, or the equivalent, or consent of instructor.

FREN-4304 Topics in French Literature of the Eighteenth Century
May be taken more than once, provided topics vary.
Prerequisite: FREN 3305, 3306, or the equivalent, or consent of instructor.

FREN-4305 Topics in French Literature of the Nineteenth Century
May be taken more than once, provided topics vary.
Prerequisites: FREN 3305, 3306, or the equivalent, or consent of instructor.

FREN-4306 Topics in French Literature of the Twentieth Century
May be taken more than once, provided topics vary.
Prerequisites: FREN 3305, 3306, or the equivalent, or consent of instructor.

FREN-4307 French Cinema
This course will examine a variety of French films from the 1930s to the present, focusing on developing an understanding of the aesthetic qualities of the individual films, while also examining the history of French cinema, how cinema conveys meaning, and how the specificity of French culture is depicted in the films.
Prerequisites: 6 upper-division hours in French.

FREN-4310 Senior Seminar
This course will present major works of French literature and literary methodologies that are not generally covered in other French courses, because of the relative level of difficulty. Course content will vary, but examples of possible authors are: Montaigne, Sade, Mallarme, and Proust.
Prerequisites: senior standing as a French major; FREN 3305 and 3306.

FREN-4-90 Reading and Conference
Individual work under faculty supervision in areas not covered by other courses.
Prerequisites: 6 upper-division hours in French and approval of Department Chair.

FREN-4-91 Selected Topics
Special study in fields not covered by other courses. Variations in credit according to work performed, from 1 - 6 hours.
Prerequisites: 6 upper-division hours in French.
FREN-4398, 4399 Honors Thesis
Individual research and scholarly investigation under faculty supervision leading to the preparation of an Honors Thesis. To be taken only by Senior Honors students in both semesters of their senior year.

GERMAN

LOWER DIVISION

GERM-1401 Elementary German I
4 class hours a week.

GERM-1402 Elementary German II
4 class hours a week.
Prerequisite: GERM 1401 or the equivalent.

GERM-2301 Intermediate German I
Prerequisite: GERM 1402 or the equivalent.

GERM-2302 Intermediate German II
Prerequisite: GERM 2301 or the equivalent.

UPPER DIVISION

GERM-3301 Advanced German I
Emphasis on conversation as well as composition and grammar. Text material may reflect either literary, scientific, or business German suitable to the need of the class.
Prerequisite: GERM 2302 or the equivalent.

GERM-3302 Advanced German II
Emphasis on conversation as well as composition and grammar. Text material may reflect either literary, scientific, or business German suitable to the needs of the class.
Prerequisite: GERM 3301 or the equivalent.

GERM-3305 Introduction to German Literature and Culture I
A study of exemplary works of German literature, theater, and art that illustrate major cultural changes in German history during the late 18th and early 19th centuries.
Prerequisite: GERM 2302.

GERM-3306 Introduction to German Literature and Culture II
A study of exemplary works of German literature, theater, and film that illustrate major cultural changes in German history during the late 18th and early 19th centuries.
Prerequisite: GERM 2302.

GERM-3398 Honors Readings
Independent study in selected areas in preparation for Honors Thesis.
Prerequisite: admission to Honors Program.

GERM-4301 Genre Studies in German Literature
The study of a major genre such as the novel, drama, poetry, or the short story. May be taken more than once, provided topics vary.
Prerequisite: GERM 3301 or the equivalent.
GERM-4310 Seminar in German Literature
The in-depth study of a single theme, movement, or author in German literature. May be taken more than once, provided topics vary.
Prerequisite: GERM 3301 or the equivalent.

GERM-4-90 Reading and Conference
Individual work under faculty supervision areas not covered by other courses.
Prerequisites: 6 upper-division hours in German and approval of Department Chair.

GERM-4-91 Selected Topics
Special study in fields not covered by other courses. Variations in credit according to work performed, from 1-6 hours. May be taken more than once, provided topics vary.
Prerequisites: 6 upper-division hours in German.

GERM-4398, 4399 Honors Thesis
Individual research and scholarly investigation under faculty supervision leading to the preparation of an Honors Thesis. To be taken only by Senior Honors student in both semesters of their senior year.

ITALIAN

LOWER DIVISION

ITAL-1401 Elementary Italian I
4 class hours a week.

ITAL-1402 Elementary Italian II
4 class hours a week.
Prerequisite: ITAL 1401 or the equivalent.

ITAL-2301 Intermediate Italian
Prerequisite: ITAL 1402 or the equivalent, or consent of instructor.

ITAL-2302 Reading and Composition
Prerequisite: ITAL 2301 or the equivalent, or consent of instructor.

UPPER DIVISION

ITAL-3371 Introduction to Romance Linguistics
A study of the science of language as it applies to those tongues having their origin in spoken Latin, principally French, Italian, Portuguese, Rumanian, and Spanish. Attention will be given both to historical developments and to the current situations of such languages. (Also listed as CLAS 3371, FREN 3371, and SPAN 3371).
Prerequisite: two years or the equivalent of Latin, Ancient Greek, or a Romance language.

ITAL-4-90 Selected Topics
Special study in fields not covered by other courses. Variations in credit according to work performed, from 1-6 hours.
Prerequisite: ITAL 2302.

RUSSIAN

LOWER DIVISION
RUSS-1401 Elementary Russian I
4 class hours a week.

RUSS-1402 Elementary Russian II
4 class hours a week.
Prerequisite: RUSS 1401 or the equivalent.

RUSS-2301 Intermediate Russian I
Prerequisite: RUSS 1402 or the equivalent.

RUSS-2302 Intermediate Russian II
Prerequisite: RUSS 2301 or the equivalent.

UPPER DIVISION

RUSS-3301 Advanced Russian I
An intensive review of Russian grammar, including grammatical exceptions and advanced material not covered in earlier courses. The course will consist of written and oral exercises and reading materials that illustrate the grammar.
Prerequisite: RUSS 2302 or the equivalent.

RUSS-3302 Advanced Russian II
A continuation of the intensive review of Russian grammar, including grammatical exceptions and advanced material not covered in earlier courses. The course will consist of written and oral exercises and reading materials that illustrate the grammar.
Prerequisite: RUSS 3301 or consent of instructor.

RUSS-3303 Russian Culture
A survey of the development of Russian culture from medieval through modern times. Art, architecture, music, and folklore will be emphasized.
Prerequisite: RUSS 2302 or the equivalent.

RUSS-3305 Introduction to Russian Literature I
A study of major works of Russian literature from its beginning through the early 1900s. RUSS 3305 and ML&L 3340 cannot both be taken for credit.
Prerequisite: RUSS 2302 or the equivalent.

RUSS-3306 Introduction to Russian Literature II
A study of major works of Russian literature from the early 1900s to the present day. RUSS 3306 and ML&L 3341 cannot both be taken for credit.
Prerequisite: RUSS 2302 or the equivalent.

RUSS-3398 Honors Reading
Independent study in selected areas in preparation for Honors Thesis.
Prerequisite: admission to Honors Program.

RUSS-4301 Genre Studies in Russian Literature
The study of a major genre such as the novel, drama, poetry, or the short story. May be taken more than once, provided topics vary.
Prerequisite: RUSS 2302 or the equivalent.

RUSS-4310 Seminar in Russian Literature
The in-depth study of a single theme, movement, or author in Russian literature. May be taken more than once, provided topics vary.
Prerequisite: RUSS 2302 or the equivalent.
RUSS-4-90 Readings and Conference
Individual work under faculty supervision in areas not covered by other courses.
Prerequisites: RUSS 2302 or the equivalent and approval of the Department Chair.

RUSS-4-91 Selected Topics
Special study in fields not covered by other courses. Variations in credit according to work performed, from 1-6 hours.
Prerequisites: RUSS 2302 or the equivalent.

RUSS-4398, 4399 Honors Thesis
Individual research and scholarly investigation under faculty supervision leading to the preparation of an Honor Thesis. To be taken only by senior Honors students in both semesters of their senior year.

SPANISH

LOWER DIVISION

SPAN-1600 Intensive Beginning Spanish
6 class hours a week

SPAN-1403 Review of Elementary Spanish
A course designed for students who have had two to three years of high school Spanish but are not qualified for SPAN 2301. A review of the material covered normally in SPAN 1600. SPAN 1600 and 1403 cannot both be taken for credit.
Prerequisite: Two to three years of high school Spanish, or the equivalent.

SPAN-2301 Intermediate Spanish I
Prerequisite: SPAN 1600 or 1403, or the equivalent.

SPAN-2302 Intermediate Spanish II
Prerequisite: SPAN 2301 or the equivalent.

UPPER DIVISION

SPAN-3301 Advanced Grammar
Intensive review of Spanish grammar, practical application through written and oral exercises, and through reading of appropriate text materials.
Prerequisite: SPAN 2302 or the equivalent.

SPAN-3302 Advanced Composition and Conversation
Emphasis on study of style and vocabulary. Written and oral reports in Spanish.
Prerequisite: SPAN 2302 or the equivalent.

SPAN-3303 Spanish Phonetics and Phonology
An introduction to Spanish phonetics and phonology involving both theoretical bases and practical applications.
Prerequisite: SPAN 3301 or the equivalent, or consent of instructor.

SPAN-3311 Spanish Civilization
A survey of the social, political, and culture history of Spain.
Prerequisite: SPAN 2302 or the equivalent, or consent of instructor.

http://web.trinity.edu/x10490.xml?PrintFriendlyPage
SPAN-3312 Latin American Civilization
A topical approach to the study of the area of Latin America, with readings and lectures on people and landscape, races, revolution, and reform, and expression through art.
Prerequisite: SPAN 2303 or the equivalent, or consent of instructor.

SPAN-3321 Spanish Cinema
An examination of a variety of Spanish films from 1960 to the present with a focus on their artistic qualities, the history of Spanish cinema, and the depictions of Spanish culture and literature in the films.
Prerequisite: SPAN 2302 or the equivalent, or consent of instructor.

SPAN-3322 Spanish American Cinema
An examination of a variety of Spanish American films with a focus on their artistic qualities, the history of Spanish American cinema, and the depictions of Spanish American culture and literature in the films.
Prerequisite: SPAN 2302 or the equivalent, or consent of instructor.

SPAN-3330 Introduction to Spanish Literature to 1700
An examination of major literary movements, authors, and works of Spanish Peninsular literature from the Middle Ages to 1700.
Prerequisite: 3 upper-division hours in Spanish or consent of instructor.

SPAN-3331 Introduction to Spanish Literature since 1700
An examination of major literary movements, authors and works of Spanish Peninsular literature from 1700 to the present.
Prerequisite: 3 upper-division hours in Spanish or consent of instructor.

SPAN-3332 Introduction to Spanish American Literature
An examination of major literary movements, authors and works of Spanish American literature from 1492 to the present.
Prerequisite: SPAN 3301, 3302, or consent of instructor.

SPAN-3346 La economía española y la Unión Europea (The Spanish Economy and the European Union)
An examination of Spain's economic development and its position within the European Union. The business, economic, and political transformation of Spain from a struggling nation with an authoritarian regime to an economic power with an open and democratic society are studied. The course also examines the development of the European Union, with a special focus on its influence on the Spanish business environment. The experiential component of the course includes visits to businesses, government agencies, and NGO's in Spain. (Also listed as BUSN 3346, ECON 3346, and INTL 3346.)
Prerequisites: ECON 1311, three additional hours in business or economics, SPAN 2302 or the equivalent, and consent of the instructor.

SPAN-3371 Introduction to Romance Linguistics
A study of the science of language as it applies to those tongues having their origin in spoken Latin, principally French, Italian, Portuguese, Rumanian, and Spanish. Attention will be given both to historical developments and to the current situations of such languages. (Also listed as CLAS 3371, FREN 3371, and ITAL 3371.)
Prerequisite: two years or the equivalent of Latin, Ancient Greek, or a Romance language.

SPAN-3372 Practica profesional en Espana (Internship in Spain)
A supervised summer internship in Spain. Students enrolled in SPAN 3372 will serve as interns with various firms, trade groups, governmental agencies, or public interest groups where they will work and gain experience related to the Spanish economy and business world. The nature of the student's responsibilities will vary with the internship involved and be subject to the approval of the supervising faculty member. (Also listed as BUSN 3372, ECON 3372, and INTL 3372.)
Prerequisites: ECON 1311, three additional hours in business or economics, SPAN 2302 or the equivalent, and consent of the instructor.

SPAN-391 Special Topics
Special study in fields not covered by other courses. Variations in credit according to work performed, from 1-6 hours. May be repeated, provided that topics vary.
Prerequisite: SPAN 2302 or the equivalent, or consent of instructor.

SPAN-398 Honors Reading
Independent study in selected areas in preparation for Honors Thesis.
Prerequisite: admission to Honors Program.

SPAN-4331 Medieval Spanish Literature
A study of the masterpieces of medieval Spanish literature up to 1500.
Prerequisite: SPAN 3330 or SPAN 3331 or consent of instructor.

SPAN-4332 Spanish Golden Age Drama
A study of major works of Spanish Golden Age drama.
Prerequisite: SPAN 3330 or SPAN 3331 or consent of instructor.

SPAN-4333 Don Quijote
A study of Cervantes's *Don Quijote de la Mancha* in its literary and historical context from a variety of critical perspectives. In addition to the novel itself, the course will include considerable study of secondary sources.
Prerequisite: SPAN 3330 or SPAN 3331 or consent of instructor.

SPAN-4334 Nineteenth-Century Spanish Literature
A study of important works of Spanish Romanticism and Realism from a variety of perspectives. Authors studied include Espronceda, Zorrilla, Larra, Perez Galdos, Pardo Bazán, and Becquer.
Prerequisite: SPAN 3330 or SPAN 3331 or consent of instructor.

SPAN-4335 Hispanic Modernism
A study of major authors and works of hispanic modernism and the Generation of '98.
Prerequisite: SPAN 3330 or SPAN 3331 or consent of instructor.

SPAN-4336 Twentieth-Century Spanish Literature
A study of important works of Spanish literature of the twentieth century.
Prerequisite: SPAN 3331 or the equivalent, or consent of instructor.

SPAN-4338 Spanish Women Writers
A study of important works by Spanish women authors with emphasis on the place of these texts in the larger Spanish literary tradition.
Prerequisite: SPAN 3331 or the equivalent, or consent of instructor.

SPAN-4342 Spanish American Literature before Modernism
A study of works from the Colonial and Postcolonial period to Modernism from a literary, historical and cultural perspective. The focus of this course will be the transition from the colonial period to the formation of national identities.
Prerequisite: SPAN 3332 or the equivalent, or consent of instructor.

SPAN-4343 Twentieth-Century Spanish American Poetry
A study of important works of major poets of the twentieth century from Modernismo and Vanguardismo to the end of the century.
Prerequisite: SPAN 3332 or the equivalent, or consent of instructor.

SPAN-4344 Twentieth-Century Spanish American Novel
A study of important works of novelists of the latter half of the twentieth century.
Prerequisite: SPAN 3332 or the equivalent, or consent of instructor.

SPAN-4346 Twentieth-Century Spanish American Short Story
A study of the important works of major short story writers of the twentieth century.
Prerequisite: SPAN 3332 or the equivalent, or consent of instructor.
SPAN-4346 Twentieth-Century Spanish American Drama
A study of important works of Spanish American drama of the twentieth century.
Prerequisite: SPAN 3332 or the equivalent, or consent of instructor.

SPAN-4347 National and Regional Literature of Spanish America
A study of works from specific nations or regions of Spanish America.

SPAN-4348 Spanish American Women Writers
A study of important works by Spanish American women authors with emphasis on the place of these texts in the larger Spanish American literary tradition.
Prerequisite: SPAN 3332 or the equivalent, or consent of instructor.

SPAN-4349 Sexualities in Literature and Film
A study of contemporary literary and cinematographic works by authors focused on issues of gender and sexuality. This course will be taught in Spanish.
Prerequisites: SPAN 3331 and 3332 or the equivalent, or consent of instructor.

SPAN-4350 History of the Spanish Language
An examination of the development of modern Spanish out of spoken Latin. Emphasis will be placed both on external developments and their linguistic consequences, and on internal change affecting the tongue.
Prerequisite: SPAN 3301 or the equivalent, or consent of instructor.

SPAN-4361 Transnational Mexican Popular Culture
A study of important Mexican popular cultural productions (literature, film, music, television programs) from the 1930's (Post Revolutionary period) to the present through a transnational approach. This course is taught in Spanish.
Prerequisites: SPAN 3332 or the equivalent, or consent of instructor.

SPAN-4-90 Reading and Conference
Individual work under faculty supervision in areas not covered by other courses.
Prerequisites: 6 upper-division hours in Spanish and approval of Department Chair.

SPAN-4-91 Special Topics
Special study in fields not covered by other courses. Variations in credit according to work performed, from 1-6 hours.
Prerequisites: 6 upper-division hours in Spanish.

SPAN-4-97 Internship
Supervised off-campus experience in Spanish appropriate to the students' abilities and interests. Includes periodic on-campus meetings with instructor to integrate internship experience with study of Spanish language and culture. Up to 3 hours credit. Pass/Fail.
Prerequisites: approval of instructor and major advisor.

SPAN-4398, 4399 Honors Thesis
Individual research and scholarly investigation under faculty supervision leading to the preparation of an Honors thesis. To be taken only by senior Honor students in both semesters of their Senior year.

Faculty

DANIA ABREU-TORRES, Ph.D., Assistant Professor, Spanish

CARLOS X. ARDÁVIN, Ph.D., Associate Professor, Spanish
ALAN M. ASTRO, Ph.D., Professor, French

ROSANA BLANCO-CANO, Ph.D., Assistant Professor, Spanish

SARAH P. BURKE, Ph.D., Professor, Russian

NINA C. EKSTEIN, Ph.D., Professor, French

STEPHEN L. FIELD, Ph.D., J. K. and Ingrid Lee Endowed Professor of Chinese Language and Literature

JINLI HE, Ph.D., Assistant Professor, Chinese

BRUCE T. HOLL, Ph.D., Associate Professor, Russian

NANETTE LE COAT, Ph.D., Associate Professor, French

ARTURO MADRID, Ph.D., Norine R. and T. Frank Murchison Distinguished Professor of the Humanities, Spanish

PABLO A. MARTINEZ, Ph.D., Associate Professor, Spanish

DEBRA OCHOA, Ph.D., Assistant Professor, Spanish

BLADIMIR RUIZ, Ph.D., Associate Professor, Spanish; Chair

MATTHEW D. STROUD, Ph.D., Murchison Term Professor of Modern Languages and Literatures, Spanish

HEATHER I. SULLIVAN, Ph.D., Associate Professor, German

RITA E. URQUIJO-RUIZ, Ph.D., Associate Professor, Spanish

MICHAEL T. WARD, Ph.D., Associate Professor, Italian and Spanish

JIE ZHANG, Ph.D., Assistant Professor, Chinese
Over view

DEGREE AND DEGREE PLANS

Two degrees are offered in the field of music: Bachelor of Arts and Bachelor of Music. The degree Bachelor of Arts offers a broad and comprehensive course of study in the liberal arts. The degree Bachelor of Music offers a plan of specialization and the opportunity of attaining a high level of accomplishment with majors in performance, composition, or a five-year music education program.

A student is admitted to candidacy for the degree of Bachelor of Music or Bachelor of Arts with a major in music only upon the approval of the Department of Music. Each student, with the aid of his/her adviser, will establish a degree plan best suited to his/her own abilities and ambitions in music. Each student's degree plan must be reviewed by his/her adviser and approved by the Department of Music and the registrar by the end of the sophomore year. At this time, the student must make formal application to continue studies toward a degree in music. The sophomore year performance jury will determine upper division status and eligibility for the Bachelor of Music degree.

Requirements for All-Level Music Teacher Certification include the Bachelor of Music degree in Choral, Elementary, or Instrumental Music, and a summer and fifth year internship program, culminating in the Master of Arts in Teaching degree. Music Education students must successfully complete proficiency examinations in keyboard, vocal, and secondary instruments before being assigned to internships.

Requirements

THE DEGREE - BACHELOR OF ARTS

The requirements for the degree Bachelor of Arts with a major in music are as follows:

I. The common curriculum

II. Departmental requirements:

A minimum of 42 semester hours in music including: 1000 (7 semesters), 1103, 1104, 1113, 1114, 1203, 1204; 2103, 2104, 2113, 2114, 2203, 2204; 3223, 3341, 3342, 12 credits of Applied Music in one area (8 of which must be at the level of 32- or above), and 6 credits of large ensemble.

III. Electives sufficient to achieve 60 hours outside the Department (including the common curriculum), and a total of 124 semester hours.

THE DEGREE - BACHELOR OF MUSIC, MAJOR IN PERFORMANCE

I. The common curriculum

II. Departmental requirements:

A minimum of 81 semester hours in music including: 1000 (7 semesters), 1103, 1104, 1113, 1114, 1203, 1204; 2103, 2104, 2113, 2114, 2203, 2204; 3121, 3223, 3301, 3302, 3341, 3342, 4221, 4301, 4321, 4322, 22 credits of applied music in one area (18 of which must be at the level of 33- or above), 8 credits of large ensemble, and 9 semester hours electives from upper division music courses.

III. Electives sufficient to achieve 60 hours outside the Department (including the common curriculum) and a total of 141 semester hours.

THE DEGREE - BACHELOR OF MUSIC, MAJOR IN COMPOSITION

I. The common curriculum

II. Departmental requirements:

A minimum of 81 semester hours in music including: 1000 (7 semesters), 1103, 1104, 1113, 1114, 1203, 1204; 2103, 2104, 2113, 2114, 2203, 2204; 3121, 3223, 3301, 3302, 3303, 3304, 3305, 3341, 3342, 4301, 4302, 4303, 14 credits of applied music in one area (10 of which must be at the level of 32- or above), 8 credits of large ensemble, and 10 semester hours elective from upper division music courses.

III. Electives sufficient to achieve 60 hours outside the Department (including the common curriculum) and a total of 141 semester hours.

THE DEGREE - BACHELOR OF MUSIC (PRE-CERTIFICATION), EMPHASIS ON EITHER CHORAL, INSTRUMENTAL, OR ELEMENTARY MUSIC
A four-year program leading to All-Level Teacher Certification upon completion of the degree, Master of Arts in Teaching (fifth year).

I. The common curriculum

II. Departmental requirements:

Choral emphasis:
A minimum of 72 semester hours in music including: 1000 (7 semesters), 1103, 1104, 1113, 1114, 1203, 1204; 2103, 2104, 2113, 2114, 2203, 2204; 3121, 3223, 3225, 3341, 3342, 4301, 18 credits of applied music in one area (14 of which must be at the level of 22- or above) and 4 credits of applied music in a secondary area, 8 credits of large ensemble, 1161, 3162, 4321, 4361, 4363, and 1 credit of music electives. In addition, 7 semester hours in Education are required, consisting of EDUC 3320 and EDUC 2204 and 2205.

Instrumental emphasis:
A minimum of 72 semester hours in music including: 1000 (7 semesters), 1103, 1104, 1113, 1114, 1203, 1204; 2103, 2104, 2113, 2114, 2203, 2204; 3121, 3223, 3224, 3341, 3342, 4301, 18 credits of applied music in one area (14 of which must be at the level of 22- or above), 1122 (or 1 credit of applied music in a secondary area), 8 credits of large ensemble, 1161, 2161, 2162, 2163, 2164, 4264, 4361, 4362, and 2 credits of music electives. In addition, 7 semester hours in Education are required, consisting of EDUC 3320 and EDUC 2204 and 2205.

Elementary emphasis:
A minimum of 72 semester hours in music including: 1000 (7 semesters), 1103, 1104, 1113, 1114, 1203, 1204; 2103, 2104, 2113, 2114, 2203, 2204; 3121, 3223, 3224 or 3225, 3341, 3342, 4301, 18 credits of applied music in one area (4 of which must be at the level of 22- or above) and 4 credits of applied music in a secondary area, 8 credits of large ensemble, 1161, 3162, 4321, 4361, 4364, and 1 credit of music electives. In addition, 7 semester hours in Education are required, consisting of EDUC 3320 and EDUC 2204 and 2205.

MINOR IN MUSIC

This course of study is designed for the student who wishes to continue an emphasis in music to complement a major in another area. A minor in music requires a minimum of 26 hours including: 1000 (4 semesters), 1103, 1104, 1113, 1114, 1203, 1204; 3341, 3342, 8 credits of applied music in one area (4 of which must be at the level of 22- or above), and 4 credits of large ensemble.

MUSIC INDIVIDUAL INSTRUCTION COURSES

Individual instruction is provided as follows:

One half-hour lesson per week for a semester earns 1 credit hour.
One three-quarter hour lesson per week for a semester earns 2 credit hours.
One hour lesson per week for a semester earns 3 credit hours.

Piano and organ practice rooms are provided without additional charge to full-time students taking private lessons.

Individual instruction in voice, piano, organ, harpsichord, and orchestral instruments is required for all majors and minors in music, and is available as elective study for other students. Placement in individual instruction courses is determined by audition interview. Enrollment is subject to faculty availability, as determined by the Chair; preference is given to music majors and minors. All students who enroll for private instruction in music will pay a special applied music fee of $400.00 per semester.

All individual instruction students will attend group performance classes as scheduled by the instructor, in addition to the individual lessons.

Individual instruction courses are designated with the prefix MUSI and a four-digit course number. As usual, the first digit indicates the level and the second digit indicates the credit hours for the course. The third and fourth digits indicate the instrument, as shown below, and also indicate whether the course is for majors and minors or for non-majors and non-minors. The first pair of numbers in each instrument sequence indicates courses for majors and minors, while the second pair in each sequence indicates courses for non-majors and non-minors.

Thus, for example, MUSI 2200 indicates a second year level, two credit hour individual instruction course in voice for music majors/minors, while MUSI 2102 indicates a second year level, one credit hour individual instruction course in voice for non-majors/non-minors.

Voice

Piano

Guitar

Organ

Clarinet

Saxophone

Flute

Oboe

Bassoon

Trumpet

Trombone

French Horn
DEPARTMENT OF MUSIC TUTION

Within the framework of a strong liberal arts curriculum, Trinity University provides an outstanding Department of Music. In addition to those students seeking a Bachelor of Music degree, many students apply offerings in the Department of Music toward the Bachelor of Arts degree.

Private instruction in piano, voice, organ, harpsichord, or orchestral instruments is required for all full-time students who major or minor in music and is available as elective study for all other students. Enrollment in applied music is contingent upon the availability of instructional time as determined by the chair. All students who enroll for private instruction in music will pay a special applied music fee of $400.00 per semester.

Approval for private instruction will be given by the chair of the Department of Music when time is available and in the following order of preference:

1. To full-time students who are music majors;
2. To full-time students who are participating in University-sponsored musical organizations;
3. To other full-time students and to part-time students when instructional time is available.

Transfer Students

Transfer students making their initial registration in applied music should register for the courses or levels that would follow the sequence of applied music study completed at the previous institutions. However, if the applied music teacher to whom the student is assigned recommends that a different course or level would be appropriate for the student, such a change must be made at the late registration.

Required Performance Attendance

Each student pursuing courses toward the completion of a major or minor in music is required to enroll in MUSC 1000 Performance Laboratory, grade option 1 (Pass/Fail). Majors must complete a total of 7 semesters, minors a total of 4 semesters. For a passing grade the student must attend 4 laboratory recitals and 6 other appropriate performances during the regular semester. Appropriate performances are those given by Trinity University or guest faculty, students, and/or ensembles.

Music Ensembles

Students majoring in music are required to participate in an appropriate music ensemble each semester unless excused by the Department Chair. (Exception: Bachelor of Arts candidates are strongly recommended but not required to continue after completion of their required six credits of ensemble.) Vocal and instrumental students will participate in the large ensemble most closely related to their applied music performance area. Keyboard students need eight semesters of large ensembles, which may be a combination of large ensemble, accompanying, and piano ensemble, with the approval of their keyboard instructor. Large ensembles are Symphonic Wind Ensemble, University Chorus, Trinity Choir, Jazz Ensemble, Handbell Choir, and Orchestra. Ensembles may be repeated for credit, but no more than 8 semester hours credit may be applied toward a degree.

Courses

MUSIC ENSEMBLES

MUSE-1186 Trinity Choir

The Trinity Choir, a select group of singers, is open to all students by audition at the opening of each semester. In addition to an annual concert tour, the Choir performs in concerts on campus and in the San Antonio area. The music performed by the Choir includes the finest accompanied and a cappella choir music of all periods, both sacred and secular. Open to all students by audition.

MUSE-1186 University Chorus

The University Chorus is open to all Trinity students by audition. Concert programming includes sacred and secular choral music ranging from the 16th century to the present. Emphasized in this course are the development of vocal technique, musicianship, and sight-reading skills. In addition to participation in the Fall and Spring Choral Concerts, the University Chorus combines with the Trinity Choir for the annual Christmas Concert and Christmas Vespers in the fall semester, and joins the Choral Union to perform choral-orchestral masterpieces with the Trinity Symphony Orchestra each spring.
MUSE-1187 Chamber Singers
The Chamber Singers is a group that performs music of a more highly specialized nature than that performed by the other choral organizations. Frequent performances are given at campus and civic functions throughout the year. Open to all students by audition.

MUSE-1188 Women's Chorale
The Women's Chorale is a group of singers who study choral and vocal techniques through the preparation and performance of the wealth of literature for women's voices. This ensemble performs on and off campus. Open to all women by audition.

MUSE-1189 Trinity Symphony Orchestra
A full orchestra, open to all qualified string, wind, and percussion students by audition. Standard orchestral literature, guest soloists, accompaniment of choral and dramatic productions. Performs on and off campus. Open to all students by audition.

MUSE-1190 Symphonic Wind Ensemble
A select ensemble open by audition to all instrumental students at Trinity University. The Wind Symphony plays selected music from the band repertoire and a wide variety of music for various sizes of wind ensembles. The Wind Symphony performs both on and off campus. Open to all students by audition.

MUSE-1191 Jazz Ensemble
The Jazz Ensembles perform both contemporary and traditional jazz. The ensembles play both on and off campus. Open to all students by audition.

MUSE-1192 Parker Handbell Choir
The Parker Handbell Choir studies the technique of English handbell ringing and performs literature composed for this medium. Open to all students by audition.

MUSE-1193 Chamber Music Ensembles
Ensembles of string, wind, percussion, and/or keyboard instruments (with and without voices) meeting to read and rehearse, giving performances as accomplishment is attained. Open to all students by audition.

MUSE-1194 Piano Ensemble
The preparation and performance under piano faculty supervision of the music literature involving a pianist with another performer, e.g., music for one piano-four hands or for two or more pianos. Improvement of the pianist's sight reading skills is stressed.

MUSE-1195 Opera Workshop
A course in which the principles and techniques involved in musical stage production are applied and result in public performances. Open to all students by audition.

MUSE-1196 Collegium Musicum
A performance course in musics of all eras. Early musical instruments will be used when possible and investigations into the performance practices of the time will be undertaken. Open to all students by audition.

MUSE-1197 Accompanying and Chamber Music for Pianists
The study of the skills of accompanying and chamber music. The preparation and performance under piano faculty supervision of the music literature involving a pianist with another performer, e.g., piano in combination with strings, wind, organ, percussion, and/or voice. Open to all students by audition. 1 hour credit.

Prerequisites: Consent of instructor

MUSIC COURSES

Theory/Composition

MUSC-1103 Aural Skills 1
This course will focus on developing aural recognition of the basic elements of music, e.g., intervals, chords, and rhythm, through a variety of exercises in music dictation and sight singing.
Prerequisite: MUSC 1301 or placement exam.
Corequisites: MUSC 1203 and 1113 or consent of Instructor.
MUSC-1104 Aural Skills II
A continuation of MUSC 1103. This course will continue to focus on developing aural recognition of the basic elements of diatonic music through a variety of exercises in music dictation and sight singing.
Prerequisite: MUSC 1103 or consent of instructor.
Corequisites: MUSC 1204 and 1114 or consent of instructor.

MUSC-1113 Keyboard Skills I
This course will develop basic skills in playing the keyboard that reinforce the topic presented in MUSC 1203. A variety of exercises will cover scales, chords, and progressions.
Prerequisite: MUSC 1301 or placement exam.
Corequisites: MUSC 1203 and 1103 or consent of instructor.

MUSC-1114 Keyboard Skills II
A continuation of MUSC 1113. This course will develop basic skills in playing the keyboard that reinforce the topics presented in MUSC 1204. A variety of exercises will cover scales, chords, and progressions.
Prerequisite: MUSC 1113 or consent of instructor.
Corequisites: MUSC 1204 and 1104 or consent of instructor.

MUSC-1203 Music Theory I
Foundations for a study of music theory and literature. This course will include a study of the elements and forms of music, e.g., melody, harmony, and rhythm, through a variety of analytical tools that include notation.
Prerequisite: MUSC 1301 or placement exam.
Corequisites: MUSC 1103 and MUSC 1113 or consent of instructor.

MUSC-1204 Music Theory II
A continuation of MUSC 1203. Foundations for a study of music theory and literature. This course will include a study of the elements and forms of music, e.g., melody, harmony, and rhythm, through a variety of analytical tools that include notation.
Prerequisite: MUSC 1203 or consent of instructor.
Corequisites: MUSC 1104 and MUSC 1114 or consent of instructor.

MUSC-1301 Foundations of Communication Through Music
Designed for students with little or no background in music theory, this course is an introduction to the rhythmic, melodic, and harmonic rudiments used for communication through music in Western Europe and the New World. Correlated materials in reading notation, ear-training, keyboard harmony, and original compositions are included.

MUSC-1302 Class Composition
An introduction to composition with emphasis on creativity and basic craftsmanship. The course will include studies of selected compositions and compositional problems, and the creation of individual short works.
Prerequisite: MUSC 1301 or consent of instructor.

MUSC-2103 Aural Skills III
A continuation of MUSC 1104. This course will focus on developing aural recognition of the elements of music in diatonic and chromatic harmony through a variety of exercises in music dictation and sight singing.
Prerequisite: MUSC 1104 or consent of instructor.
Corequisites: MUSC 2203 and 2113 or consent of instructor.

MUSC-2104 Aural Skills IV
A continuation of MUSC 2103. This course will focus on developing aural recognition of the elements of music in diatonic, chromatic, modal, and tonal harmony through a variety of exercises in music dictation and sight singing.
Prerequisite: MUSC 2103 or consent of instructor.
Corequisites: MUSC 2204 and 2114 or consent of instructor.
MUSC-2113 Keyboard Skills III
A continuation of MUSC 1114. This course will develop basic skills in playing the keyboard that reinforce the topics presented in MUSC 2203. A variety of exercises will cover scales, chords, progressions, and score reading.
Prerequisite: MUSC 1114 or consent of instructor.
Corequisites: MUSC 2203 and 2103 or consent of instructor.

MUSC-2114 Keyboard Skills IV
A continuation of MUSC 2113. This course will develop basic skills in playing the keyboard that reinforce the topics presented in MUSC 2204. A variety of exercises will cover scales, chords, progressions, and score reading.
Prerequisites: MUSC 2113 or consent of instructor.
Corequisites: MUSC 2204 and 2104 or consent of instructor.

MUSC-2203 Music Theory III
A continuation of MUSC 1204. This course will focus on the trends of chromaticism in the nineteenth century Western music. Continued study of melody, harmony, rhythm, and analysis.
Prerequisite: MUSC 1204 or consent of instructor.
Corequisites: MUSC 2103 and 2113 or consent of instructor.

MUSC-2204 Music Theory IV
A continuation of MUSC 2203. This course will focus on trends of chromaticism in the nineteenth century Western music and uses of tonal and atonal materials in the twentieth century. Continued study of melody, harmony, rhythm, and analysis.
Prerequisite: MUSC 2203 or consent of instructor.
Corequisite: MUSC 2104 and 2114 or consent of instructor.

MUSC-3301 Forms and Analysis
An in-depth study of structures and harmonic designs of various genres in Western music from the 17th through the 20th centuries. Emphasis will be placed on the development of analytical skills.
Prerequisite: MUSC 2204.

MUSC-3302 Counterpoint
A historical approach to contrapuntal techniques from Palestrina to the 20th century with special emphasis on the polyphonic works of J.S. Bach. Analysis based on an aural and visual acquaintance with contrapuntal music as well as practice in writing contrapuntal examples.
Prerequisite: MUSC 2204.

MUSC-3303, 3304 Composition
Composition in short forms for voice and solo instruments. 3 class hours a week for 2 semesters.
Prerequisites: MUSC 2204 and consent of instructor.

MUSC-3305 Electronic Music
Instruction in the principles of electro-acoustic music, including analog and digital synthesis, sound modulation, and sound reproduction; the production of individual and group compositions; discussion of related contextual problems and a survey of recent electronic music.

MUSC-4301 Orchestration and Arranging
A study of the families of instruments and voices, including their ranges, individual colors, special devices, and methods of scoring for small and large combinations. Also, an introduction to stylistic developments in large ensemble writing from Haydn to present. Activities include score analysis, listening, and scoring and arranging exercises using selected works as models.
Prerequisite: MUSC 2204.

MUSC-4302, 4203 Composition
A continuation of MUSC 3303, 3304. Composition in larger forms and for larger aggregations of voices and instruments. 3 class hours a week for 2 semesters.
Prerequisites: MUSC 3304 and consent of instructor.
MUSC-4-11, 4-12, 4-13, 4-14 Composition

Guidance in solution of creative and practical problems attending the composition of one or more vocal, instrumental, or music-dramatic works. Discussion of works in progress as related to classical principles and contemporary practices. 1 to 6 semester hours.

Prerequisite: consent of instructor.

Applied Music

MUSC-1000 Performance Laboratory

Attendance at 10 designated musical events each semester is required of all students pursuing courses toward the completion of a major (7 semester) or minor (4 semesters) in music.

MUSC-1121 Beginning Class Voice I

A study of the fundamentals of vocal production with lessons including breath control, posture, diction, tonal concepts and phrasing. In addition, aspects of music notation and reading will be addressed. Techniques covered in class are applied to the performance of basic solos and vocal functions in choral situations. This course does not satisfy the Class Voice requirement as stated in the Instrumental Music Education (pre-certification) curriculum.

MUSC-1122 Beginning Class Voice II

This course is a continuation of MUSC 1121, with a particular emphasis on aspects of vocal production related to the preparation and performance of ensemble voices in an educational setting. This course satisfies the Class Voice requirement as stated in the Instructional Music Education (pre-certification) curriculum.

Prerequisite: MUSC 1121 or consent of instructor.

MUSC-1123 Beginning Class Piano I

A study of the rudiments of piano performance designed for elementary education majors and other students who have had no previous piano study. Competency in reading music, ensemble playing, and solo repertory are stressed.

MUSC-1124 Beginning Class Piano II

A continuation of the studies initiated in 1123 along with the introduction of harmonization of short melodies and transpositions. Spring.

Prerequisite: MUSC 1123 or consent of instructor.

MUSC-1125 Beginning Class Guitar I

A study of the rudiments of guitar performance designed for education majors and other students who have no previous guitar study. Competency in reading music, ensemble playing, and solo repertory is stressed.

MUSC-1126 Beginning Class Guitar II

A continuation of the studies initiated in 1125. The rudiments of reading, ensemble playing, and solo repertory in guitar performance are presented in greater depth.

Prerequisite: MUSC 1125 or consent of instructor.

MUSC-2221 Repertoire Development

The selection, study, and performance of music appropriate to the student’s voice or instrument in preparation for recital and public performance. May be repeated up to a total of four hours credit.

Prerequisite: consent of instructor.

MUSC-3121 Half Recital

One half of a shared program presented in public usually during the junior or senior year. Required of all Bachelor of Music candidates. Composition students will present original works but not necessarily perform them.

Prerequisite: applied music level of 33-.

MUSC-3221 Diction for Singers I

A study of Italian, German, French, and English diction as used in vocal performance, emphasizing preparation of selected literature.

Prerequisite: MUSC 1201.
MUSC-3222 Diction for Singers II
A study of Italian, German, French, and English dictation as used in vocal performance, emphasizing preparation of selected literature.
Prerequisites: MUSC 3221.

MUSC-3223 Basic Conducting
Fundamentals of score reading, baton technique and expressive gestures, and principles of score interpretation applied to selected examples of instrumental and choral literature.
Prerequisite: MUSC 2204 or consent of instructor.

MUSC-3224 Advanced Instrumental Conducting
As a continuation of MUSC 3223, areas of score study, form and analysis of asymmetric meters, expressive interpretation, and advanced conducting gestures will be explored in the context of the instrumental music repertoire.
Prerequisite: MUSC 3223.

MUSC-3225 Advanced Choral Conducting
As a continuation of MUSC 3223, areas of score study, form and analysis of asymmetric meters, expressive interpretation, and advanced conducting gestures will be explored in the context of the choral music repertoire.
Prerequisite: MUSC 3223.

MUSC-4221 Full Recital
A full program presented in public usually during the senior year. Required for all Bachelor of Music students in performance.
Prerequisite: applied music level of 43–.

MUSC-4321 Applied Music Pedagogy
Theories and techniques of individual music instruction applied to the teaching of performance skills on voice, keyboard or orchestral instruments. Student teaching is supervised by the instructor. May be repeated for credit in applied fields.
Prerequisite: consent of instructor.

MUSC-4322 Applied Music Literature
Principal composers, styles and types of performance skills on voice, keyboard or orchestral instruments. May be repeated for credit in different applied fields.
Prerequisite: consent of instructor.

History/Literature

MUSC-1340 Introduction to Music History
An introduction to the history, styles, genres, and forms of the Western art music tradition from the Middle Ages to the twentieth century. Important composers discussed include Bach, Beethoven, Stravinsky, and Tchaikovsky. Topics include the symphony, opera, sacred music, and the avant garde. Previous musical experience is not necessary, but students will be expected to develop discriminating listening skills to enhance their understanding and appreciation of the material.

MUSC-1341 Operas of Verdi and Wagner
A study of the life and works of two composers whose works epitomize the stylistic trends of the nineteenth-century opera. Introduces basic concepts and conventions of the art form, while exploring and contrasting their unique contributions to the genre and their influence on succeeding generations of operatic composers. Examines the dramatic experience as a result of the nationalistic, philosophical, and cultural traditions from which each composer took inspiration, through such works as Otello, La Traviata, Tristan and Isolde, and Die Walküre. Previous musical experience is not necessary, but students will be expected to develop discriminating listening skills to enhance their understanding and appreciation of the material.

MUSC-1343 Introduction to Opera
A study of opera through an examination of selected works, beginning in the seventeenth century and continuing through the present. Introduces the basic concepts and conventions of the art form, while investigating the dramatic, musical, and literary qualities that make opera such an emotionally powerful theatrical experience. Explores such operas as The Magic Flute, Carmen, and Wozzeck, as well as stagecraft, musical symbolism, and the production design. Previous musical experience is not necessary, but students will be expected to develop discriminating listening skills to enhance their understanding and appreciation of the material.

MUSC-1345 Women and Music
A historical, sociological, and artistic study of the contributions of women to the history or music in the western world from the ninth century to the present. Ability to read music is helpful.
Prerequisite: MUSC 1301, 1340, or consent of instructor.

MUSC-1346 Jazz History and Styles
A study of the origins, evolution, and emergence of jazz as one of America's significant contributions to world music. The course will emphasize studies of representative works illustrating principal styles in the development of jazz as an accepted form of musical expression in American culture.

MUSC-1349 African American Music
A survey of the African American influences on the musical heritage of the United States. Emphasis will be given to the relation of musical style and performance to changing cultural, philosophical, and technological conditions. Popular music styles as well as art music by African American composers will be discussed. Previous musical experience is not necessary, but students will be expected to develop discriminating listening skills to enhance their understanding and appreciation of the material.

MUSC-1351 Music Cultures of the World
This course explores the music of various cultures around the world. Using the case study approach, students will learn about the music and sociology of selected regions that may include West Africa, Asia, India, and the American Southwest. Students will undertake fieldwork in San Antonio to gain practical experience in ethnomusicological fieldwork. This is an introductory course appropriate for non-majors as well as music students. No prior musical experience is required, but students without musical backgrounds must learn a vocabulary of terms for describing musical sound. (Also listed as ANTH 1351.)

MUSC-2301 American Musical Theater
Studies of the source materials, stage and film adaptations, and integration of musical and dramatic elements that led to the development of the Broadway musical as an American tradition.

MUSC-2340 Creative Thinking and the Artistic Process
This course encourages students to synthesize a theoretical and experimental approach to the creative process as studied through the visual arts, music, creative writing, and theatre. Students enter into the creative process as a means to develop creative self-expression, aesthetic sensibility, and an understanding of the arts. The nature and drive of artistic endeavor is explored through studies of the lives of significant thinkers and artists, examinations of art works, guest lectures, and projects. Students will engage in activities and projects that will enable them to access and develop their own creative thinking skills in concert with traditional, analytic modes. (Also listed as ART 2314, ENGL 2340, GNED 2340, and THTR 2340.)

MUSC-3341 Music History I: Ancient Greece to Mozart
A survey of music in the Western art music tradition, beginning with ancient Greece and continuing through the music of the late eighteenth century. Important composers covered include Bach, Handel, Vivaldi, Monteverdi, Palestrina, Josquin, Haydn, and Mozart. Although designed as Part I of a two-semester history sequence, this course may be taken independently. (Also listed as GRST 3300.)
Prerequisite: MUSC 1204 or consent of instructor.

MUSC-3342 Music History II: Beethoven to the Present
A survey of important figures and developments in Western art music from the late Classical era through the present, beginning with the music of the late eighteenth century, continuing with Beethoven, Berlioz, Schubert, and other nineteenth-century composers, and concluding with a sustained overview of the modern era from Mahler to Ligeti. Although designed as a continuation of Music History I, this course may be taken independently. (Also listed as GRST 3342.)
Prerequisite: MUSC 1204 or consent of instructor.

MUSC-3344 Twentieth-Century Music
A stylistic study of major composers and compositional trends in music of the Twentieth Century.
Prerequisite: MUSC 1340 or consent of instructor.

MUSC-3346 Survey of Symphonic Literature
Study of symphonic literature of 18th-20th centuries with reference to style, structure and instrumental techniques involved in representative compositions of major composers.
Prerequisite: Consent of instructor.

MUSC-3347 The Art Song
A historical survey of the development of the Art Song by nationality as well as stylistic periods from the 17th century to the present. Ability to read music helpful.
Prerequisite: MUSC 1301, 1340, or consent of instructor.

MUSC-3349 Music and Religion
An examination of the role of music in the worship practices of the major denominations of Judaism, Islam, and Christianity. Particular emphasis will be given to the historical development within each group of liturgical forms, important religious festivals, liturgical books and materials, and doctrinal issues related to gender, propriety of musical styles and practices, texts, and the use of instruments. The contributions of leading composers will be discussed.

Prerequisite: MUSC 1301 or 1203, or consent of instructor.

MUSC-3359 Mozart
Two centuries after his death, Wolfgang Amadeus Mozart remains one of the most compelling figures in the music history due to the extraordinary quality of the music he wrote and to the numerous legends which swirled about him from childhood onward. This course is a critical examination of Mozart's life and works. Using biographies, Mozart's own letters, and evidence in the music itself, we will explore how the image of a divinely-inspired child genius arose during his lifetime, and how that image continued to shape his reputation for later generations of listeners, including our own. (Also listed as GRST 3343.)

Prerequisite: MUSC 1204 or consent of instructor.

MUSC-3-90 Directed Studies
Individual study and research in areas not covered by other courses. 1 to 4 semester hours.
Prerequisites: 12 semester hours of music and approval of the Department Chair.

MUSC-3-91 Special Topics in Music
Special studies in areas not covered by other courses. May be taken more than once provided the topics vary. Maximum credit six hours.
Prerequisite: consent of instructor.

MUSC-3398 Honors Readings
Independent study in selected areas in preparation for Honors Thesis. May be taken for up to three hours of credit.

MUSC-4-90 Directed Studies
Individual study and research in areas not covered by other courses. 1 to 6 semester hours.
Prerequisites: 6 upper-division hours of Music and approval of the Department Chair.

MUSC-4391, 4394 Workshop or Seminar

Prerequisites: consent of instructor and Department Chair.

MUSC-4398, 4399 Honors Thesis
Individual research and scholarly investigation under faculty supervision leading to the preparation of an Honors Thesis.
Prerequisite: senior standing.

Music Education

MUSC-1161 Introduction to Music in American Schools
Objectives and procedures in learning and teaching music in the elementary and secondary schools through presentations and in school observations.
Prerequisites: MUSC 1301, 1203, or consent of instructor

MUSC-2161 Instrumental Fundamentals - Brass
A study of methods of teaching brass instruments. Through direct hands-on playing of instruments and a study of applicable method books, students will develop a fundamental knowledge and basic technique of each instrument in the brass section.

MUSC-2162 Instrumental Fundamentals-Percussion
A study of methods of teaching percussion instruments. Through direct hands-on playing of instruments and a study of applicable method books, students will develop a fundamental knowledge and basic technique of each instrument in the percussion section.
MUSC-2163 Instrumental Fundamentals-Strings
A study of methods of teaching string instruments. Through direct hands-on playing of instruments and a study of applicable method books, students will develop a fundamental knowledge and basic technique of each instrument in the string section.

MUSC-2164 Instrumental Fundamentals - Woodwinds
A study of methods of teaching woodwind instruments. Through direct hands-on playing of instruments and a study of applicable method books, students will develop a fundamental knowledge and basic technique of each instrument in the woodwind section.

MUSC-2361 Music in Childhood
A study of the instructional approaches suited to the cognitive, physical, and affective development of children in early and middle childhood. Students will acquire basic music skills and understandings in order to provide music experiences in the classroom.

MUSC-2362 Music in Early Childhood
Identifying, understanding, and guiding musical needs of young children. Methods and materials for program development for students seeking kindergarten endorsement or interested in teaching primary grades.

MUSC-3162 Instrumental Music Techniques
An overview of beginning orchestral and band experiences. Students will be introduced to the four families of instruments and will observe these instruments being taught in the middle schools.
Prerequisite: MUSC 1161.

MUSC-4264 Marching Band and Jazz Instrumental Practices
A study of the unique stylistic, pedagogical, and organizational demands relative to marching bands and jazz ensembles in the middle and secondary school setting. Students will develop an understanding of and personal approach to teaching and rehearsing these unique groups in the context of a music education philosophy.
Prerequisite: MUSC 2204.

MUSC-4361 Elementary Music Instructional Practices
Music programming, instruction, and organization of music in general music classes, kindergarten through eighth grade.
Prerequisite: MUSC 1161.

MUSC-4362 Secondary Instrumental Music Instructional Practices
A study of the organization, functions, materials, and instructional practices relative to instrumental music ensembles in the middle and secondary school setting. Students will develop an understanding of and personal approach to teaching and rehearsing music in the context of a music educational philosophy.
Prerequisites: MUSC 1161, 3223, and senior standing.

MUSC-4363 Secondary Choral Music Instructional Practices
A study of the organization, functions, materials, and instructional practices relative to choral music ensembles in the middle and secondary school setting. Students will develop an understanding of and personal approach to teaching and rehearsing music in the context of a music educational philosophy.
Prerequisites: MUSC 1161, 3223, and senior standing.

MUSC-4364 Elementary Music Methods and Materials
This course will deal with the European and American music education methods such as Orff Schulwerk, Kodaly, Dalcroze Eurhythmics, Comprehensive Musicianship, and Gordon. Music education technology, global music for children, and early childhood music education will also be addressed.
Prerequisite: MUSC 4361 and senior standing.

Faculty

BRIAN BONDARI, D.M.A., Assistant Professor

KENNETH GREENE, D.M.A., Professor
Neuroscience

Overview

The Bachelor of Science in Neuroscience is a multi-disciplinary program designed to provide an understanding of the nature and functioning of the nervous system from the molecular to the behavioral level. Courses, taught by faculty from the Biology, Psychology, and Chemistry departments, offer a broad spectrum of topics and approaches to the study of neural systems' structure and function. The major offers an opportunity for students to engage in supervised research in neuroscience and related areas and provides valuable experience to students interested in pursuing careers in the health professions or graduate study. Double majors in neuroscience and biology are not permitted.

Requirements

THE MAJOR

The requirements for the degree of Bachelor of Science with a major in neuroscience are as follows:

I. The common curriculum

II. Specific degree requirements (52-55 semester hours)

   A. Core curriculum in neuroscience (8 hours):
      
      NEUR 2310 (Introduction to Neuroscience)
      NEUR 2110 (Neuroscience Laboratory)
      NEUR 3457 (Neurobiology)
      NEUR 4000 (Neuroscience Seminar) (four semesters)

   B. Supporting courses in biology (9 hours):
      
      BIOL 1311 (Integrative Biology I)
      BIOL 1111 (Introductory Biology Laboratory)
      BIOL 1312 (Integrative Biology II)
      BIOL 1212 (Methods for Biological Problem Solving)

   C. Supporting courses in chemistry (8 hours):
      
      CHEM 1318 (Chemistry in the Modern World)
      CHEM 1118 (Introduction to Analytical Methods)
      CHEM 2319 (Organic Chemistry)
      CHEM 2119 (Laboratory Methods in Organic Chemistry)

   D. Supporting courses in psychology (11 hours):
      
      PSYC 1300 (Principles of Psychology)
      PSYC 2401 (Statistics and Methods I)
      PSYC 2402 (Statistics and Methods II)

   E. Four elective courses from the following set, two from each discipline* (13-14 hours):
      
      BIOL 3420 (Animal Behavior)
      BIOL 3451 (Vertebrate Physiology)
      BIOL 3453 (Developmental Biology)
      BIOL 3456 (Cell Biology)
      BIOL 491 (Selected Topics) (3 hours, advisory approval required)
      PSYC 3311 (Sensation and Perception)
      PSYC 3331 (Memory and Cognition)
      PSYC 3340 (Psychopathology)
      PSYC 3360 (Special Topics in Psychology) (advisory approval required)
      PSYC 4390 (Senior Seminar in Psychology) (advisory approval required)

   F. The Senior Experience (3-6 hours):

http://web.trinity.edu/x10488.xml?PrintFriendlyPage
III. Electives sufficient to total 124 semester hours.

GUIDELINES FOR ACCEPTANCE OF MAJORS

Full acceptance in the major is granted if the following requirements are met at the time of application:

- Completion of NEUR 2310/2110, BIOL 1311/1111, CHEM 1318/1118, and PSYC 2401 with a grade of C or better.
- An overall grade point average of at least 2.0.

HONORS PROGRAM

To be eligible for graduation with Honors in Neuroscience, students must earn a grade point average of at least 3.33 in all courses taken prior to the semester before graduation, a grade point average in neuroscience courses (core and supporting) of at least 3.50, and "A" in BIOL 4398 and 4399 or PSYC 4395 and 4396 (thesis research in Biology or Psychology).

To apply for graduation with Honors in Neuroscience, students should address a written request for consideration to the Faculty Advisory Committee. The request must be received no later than the first full week of the student's final semester before graduation. The decision to confer or not to confer Honors will be made by the Advisory Committee and the Thesis Supervisor and will be based on the quality of the written thesis and its oral presentation in a colloquium.

Courses

NEUR-2310 Introduction to Neuroscience
A survey of basic neuroscience, starting with fundamentals of neuronal structures and ending with higher brain functions and their relations to mind and behavior. (Also listed as PSYC 2310).
Prerequisite: PSYC 1300.

NEUR-2110 Neuroscience Laboratory
The neuroscience laboratory provides students with a hands-on approach to understanding the scientific method through neuroscientific techniques and data analysis, including anatomical electrophysiological, and computer simulations. Students will engage in laboratory exercises as well as in solving problem sets. This course is appropriate for both non-majors and science majors Spring semester only. (Also listed as PSYC 2110.)
Prerequisite or corequisite: NEUR/PSYC 2310.

NEUR-3457 Neurobiology
Neurobiology focuses on the organization and function of nervous tissues and systems. The course begins with an anatomical overview, followed by an examination of neural system function at the level of signaling and synaptic transmission, sensory systems, and central system integration and control. With this foundation, the course explores brain development and plasticity. 3 class hours and 3 laboratory hours a week for one semester. Additional hours are required to monitor experiments. (Also listed as BIOL 3457.)
Prerequisites: BIOL 1312, 1212, CHEM 2319, 2119, NEUR 2310, or consent of instructor.
Prerequisites or corequisites: NEUR 2110, PSYC 2402 or consent of instructor.

NEUR-4000 Neuroscience Seminar
This course is built around student presentations of independent research in neuroscience (NEUR 4390) and seminars from occasional external speakers. Neuroscience majors are required to register for this course each semester of their junior and senior years. The course is also open to other students interested in neuroscience.

NEUR-4-90 Research in Neuroscience
Independent empirical research arranged with a faculty member on problems in neuroscience. Results of the project are presented in written and oral form. A minimum of 3 semester hours is required for the major, and a maximum of 6 semester hours is allowed. The research topic must be approved by the Faculty Advisory Committee.
Prerequisite: consent of instructor.

Faculty

MARK BRODL, Ph.D., George W. Brackenridge Distinguished Professor of Biology

PAULA T. HERTEL, Ph.D., Professor, Psychology
Courses of Study 2011 - 2012

New Media

Overview

Trinity's interdisciplinary minor in New Media is designed to prepare students to function professionally, academically, and personally in diverse new media environments. The required courses provide a foundation upon which students build an understanding of New Media in relation to art, communication, computer science, art history, English, engineering, philosophy, psychology, and/or music. The minor promotes new media research, development, and design while preparing students for careers in new media and other fields being transformed by evolving communication technologies. Students interested in declaring a minor in New Media should contact Professor Aaron Delwiche; each student will then be assigned to a minor adviser.

Requirements

THE MINOR

The requirements for a minor in New Media are:
21 semester hours, with no more than 9 hours in any one subject area, and at least 9 upper division hours.

Required courses: 12 hours

- ART 2380 (Digital Art)
- ARTH 1308 (Art History II: Renaissance to Modern Art)
- *COMM 3344 (Interactive Multimedia Communication) [one of three topics: 1) Web Design; 2) Interactive Narratives; 3) Games for the Web]
- CSCI 1304 (Computers and Society) or higher level CSCI course

Elective courses: 9 hours with 6 hours in "Application" and 3 hours in "Context"

Application: 6 hours

- ART 3380 (Advanced Digital Art)
- *COMM 3340 (Media Writing: Reporting on/for the Internet)
- *COMM 3344 (Interactive Multimedia Communication) [one of three topics not already taken: 1) Web Design; 2) Interactive Narratives; 3) Games for the Web]
- CSCI 3353 (Graphics)
- ENGR 1381 (Engineering Analysis and Design I)
- MUSC 3305 (Electronic Music)

Context: 3 hours

- ART 3314 (Issues in Contemporary Art)
- ARTH 3360 (Twentieth-Century Art)
- ARTH 3385 (Contemporary Architecture)
- CLAS 1306 (Ancient Science and Technology)
- COMM 3328 (Media, Culture, and Technology)
- ENGL 3330 (Literature and the Visual Arts)
- PHIL 3331 (Philosophy of Mind)
- PHIL 3350 (Philosophy of Culture)
- PHIL 3355 (Aesthetics)
- PSYC 2330 (Fundamentals of Cognition)
- PSYC 3341 (Social Psychology)
- THTR 2310 (Principles of Design)

* Note: Courses are approved by the New Media minor committee only for the specific topic listed.

Courses

See the "Requirements" tab.
Faculty

WILLIAM G. CHRIST, Ph.D., Professor, Communication

AARON DELWICHE, Ph.D., Associate Professor, Communication; Chair

ROBERT HUESCA, Ph.D., Professor, Communication

MARK B. GARRISON, Ph.D., Alice P. Brown Professor of Art and Art History

J. PAUL MYERS, JR., Ph.D., Professor, Computer Science

PATRICIA SIMONITE, M.F.A., Associate Professor, Art and Art History
Courses of Study 2011 - 2012

Philosophy

Requirements

THE MAJOR

To be accepted as a major in philosophy, students must have taken Introduction to Philosophy (PHIL 1301) or Ethics (PHIL 1354). The requirements for the degree of Bachelor of Arts with a major in philosophy are as follows:

I. The common curriculum

II. Departmental requirements:

A. 33 hours in philosophy, at least 24 of which must be upper division.

B. All of the following four courses:
   - PHIL 1301 (Introduction to Philosophy)
   - PHIL 2340 (Symbolic Logic I)
   - PHIL 3320 (Classical Greek Philosophy)
   - PHIL 3322 (Early Modern Philosophy)

C. One of the following two courses:
   - PHIL 3323 (German Idealism)
   - PHIL 3326 (Nietzsche and German Philosophy)

D. One of the following two courses:
   - PHIL 3330 (Metaphysics)
   - PHIL 3339 (Epistemology)

E. One of the following four courses:
   - PHIL 4391 (Seminar on a Philosophical Problem)
   - PHIL 4392 (Seminar on a Philosopher)
   - PHIL 4393 (Seminar on a Philosophical Movement)
   - PHIL 4395 (Senior Thesis)

III. Electives sufficient to total 124 hours.

THE MINORS

Students may choose from the following four minors in philosophy:

I. MINOR IN PHILOSOPHY

   The requirements for a minor in philosophy are as follows:

   A. 18 hours in philosophy, 15 of which must be upper division.

   B. PHIL 1301 (Introduction to Philosophy)

   C. One of the following two courses:
      - PHIL 3320 (Classical Greek Philosophy)
      - PHIL 3322 (Early Modern Philosophy)

II. MINOR IN ETHICS

   The requirements for a minor in ethics are as follows:

   A. 18 hours in philosophy, of which at least 9 must be upper division.

   B. Three of the following courses:
III. MINOR IN PHILOSOPHY OF ART

The requirements for a minor in philosophy of art are as follows:

A. 18 hours in philosophy, of which at least 9 must be upper division.

B. One of the following courses:
   - PHIL 1301 (Introduction to Philosophy)
   - PHIL 1354 (Ethics)

C. Three of the following courses:
   - PHIL 3355 (Aesthetics)
   - PHIL 3357 (Philosophy of Film)
   - PHIL 3358 (Philosophy of Music)
   - PHIL 3360 (Philosophy of Literature)

IV. MINOR IN LOGIC AND THE PHILOSOPHY OF COGNITION

The requirements for the minor in logic and the philosophy of cognition are as follows:

A. 18 hours in philosophy, of which at least 9 must be upper division.

B. PHIL 2340 (Symbolic Logic I)

C. Three of the following courses:
   - PHIL 1341 (Tools for Reasoning)
   - PHIL 3331 (Philosophy of Mind)
   - PHIL 3332 (Philosophy of Science)
   - PHIL 3339 (Epistemology)
   - PHIL 3340 (Symbolic Logic II)
   - PHIL 3343 (Non-Classical Logics)

DEPARTMENTAL HONORS PROGRAM

I. To be accepted into the Department Honors Program, students must be philosophy majors who have a cumulative grade-point average of 3.33, and a grade-point average of 3.75 within the department, at the end of the Fall semester of the Junior year. Such students may request admission to the Honors Program. The request should be in writing and should be submitted to the chair of the department at the end of the Fall semester of the Junior year. The request should be accompanied by a report from the Registrar's Office, showing their grade-point averages. The members of the philosophy department will decide which students are accepted.

II. To receive Departmental Honors, majors in philosophy must have a grade-point average of 3.75 within the department, and a cumulative grade-point average of 3.33, at graduation. They must complete the requirements for the major. They must also complete the following courses:

A. PHIL 3339 (Epistemology)

B. PHIL 3330 (Metaphysics)

C. PHIL 3352 (Ethical Theory) or PHIL 3351 (Social and Political Philosophy)

D. At least one of the following:
   - PHIL 3329 (Continental Philosophy)
   - PHIL 3331 (Philosophy of Mind)
   - PHIL 3333 (Philosophy of Language)

E. At least one of the following (preferably all three):
   - An intermediate-level course in German, French, or Greek
   - PHIL 3340 (Symbolic Logic II)
   - A course in mathematics at the level of MATH 1311 (Calculus I) or higher

F. PHIL 4396 (Thesis I)

G. PHIL 4397 (Thesis II)
PHIL-1301 Introduction to Philosophy
An introduction to Philosophy emphasizing central issues in epistemology, metaphysics, and ethics. The course will focus on major philosophical figures (such as Plato, Aristotle, Descartes, Locke, Hume, Kant, Hegel, and Marx).

PHIL-1302 Introduction to Asian Philosophy
An introduction to the classical philosophical traditions of Asia - Hinduism, Buddhism, Confucianism, and Taoism - with an emphasis on their approach to major philosophical questions.

PHIL-1341 Tools for Reasoning
Reasoning is the process of using the evidence available to us in order to make informed decisions about what to believe and do. Good reasoning requires the ability to identify and assess deductive arguments; to formulate hypotheses, test them, and choose those that are best supported by the evidence; and to assess which courses of action are most reasonable given our beliefs and values. This class will introduce a number of tools that are useful for reasoning, including deductive logic, probability and statistics, and decision theory. The course will also consider problem-solving techniques and ways of evaluating the credibility of sources.

PHIL-1354 Ethics
An introduction to traditional and contemporary problems and theories in ethics.

PHIL-2340 Symbolic Logic I
An introduction to formal deductive logic, covering propositional logic (truth-functional logic) and first-order predicate logic (quantification theory). Typical topics covered include: techniques of symbolization, truth tables, validity and soundness, and techniques of natural deduction. Symbolic notation is used extensively. Does not require 1341 as a prerequisite.

PHIL-2359 Environmental Ethics
A study of the moral status of the things and creatures that make up the environment, and their moral relationship to people. Particular attention will be given to the responsibilities of people to protect and preserve the environment, and to conserve resources for future generations.

PHIL-2356 Applied Ethics
An application of ethical theory to a particular moral issue. Each offering will focus on a specific issue or a set of closely related issues; topics will vary from one offering to the next. Examples of topics which may be covered include: abortion; genetic engineering; environmental justice; urban issues such as group discrimination, housing restrictions, regulation of vice, and city planning; and truth in advertising and whistle blowing.

PHIL-2357 The Meaning of Life
A critical examination of a wide range of approaches to the question, "Does life have meaning?" Among the philosophers to be covered are Aristotle, Tolstoy, Kant, Schopenhauer, Nietzsche, Camus, Miguel de Unamuno, and Thomas Nagel.

PHIL-2359 Professional Ethics
A critical Examination of ethics and ethical issues involved in professional life. Typical topics will include the following: ethical theory, theory of justice, professional codes of conduct, corporate responsibility, harassment policy, affirmative action, the moral status of animals, experimentation using animal and human subjects, the physician-patient relationship, reproductive ethics, and health care policy. (Also listed as BUSN 2359.) PHIL 1354 and PHIL 2359 may not both be taken for credit.

UPPER DIVISION

History of Philosophy

PHIL-3310 Classical Greek Philosophy
A study of the major figures in ancient Greek philosophy from Thales to Aristotle, with a special focus on thinkers of the high classical period: Socrates, Plato, and Aristotle.
Prerequisite: PHIL 1301 or consent of instructor.

PHIL-3311 Hellenistic Philosophy
A study of the dominant philosophical schools after the death of Aristotle - Stoics, Epicureans, and Skeptics - with a particular emphasis on ethics (virtue ethics, hedonism) and epistemology.
Prerequisite: PHIL 1301 or consent of instructor.

PHIL-3312 Late Ancient and Medieval Philosophy
A study of philosophical problems that arose in the historical and intellectual context of Late Antiquity and the Middle Ages. The course will include topics in metaphysics, philosophy of religion, ethics, and mysticism. It will emphasize the ancient origins of Medieval thought, and clarify the intellectual roots of Christianity by discussion of the key notions, ideas, and figures that crucially contributed to shaping Western culture.

PHIL-3322 Early Modern Philosophy
A study of the classical modern philosophers, including the Rationalists: Descartes, Leibniz, and Spinoza; the Empiricists: Locke, Berkeley, and Hume; and the attempted synthesis of Kant.
Prerequisite: PHIL 1301.

PHIL-3323 German Idealism
A study of important thinkers and movements at the beginning of the 19th century. We will focus initially on Kant, and investigate how German Idealism and Romanticism developed in the aftermath of Kant's critical philosophy. After an extended treatment of Hegel, we will look at the young Hegelians and Marx. The course will focus on issues in metaphysics, epistemology, the philosophy of history and the problem of subjectivity. (Also listed as GRST 3360.)
Prerequisite: PHIL 1301.

PHIL-3324 Pragmatism
A study of American pragmatic philosophy. The emphasis will be on Peirce, James, and Dewey; some attention will be paid to such contemporary figures as Quine and Rorty.
Prerequisites: PHIL 1301 and 3322.

PHIL-3325 Existentialism
The development of existential thought from the writings of Kierkegaard and Nietzsche to more recent work by Heidegger, Sartre, and Camus.
Prerequisites: PHIL 1301 and 3322.

PHIL-3326 Nietzsche and German Philosophy
A study of the important thinkers and movements at the end of the 19th century. We will focus initially on Kant before seeing how Schopenhauer and finally Nietzsche developed on the basis of the Kantian philosophy. After an extended treatment of Nietzsche, we will look at how Freud and psychoanalysis grew out of this tradition. The course will focus on issues in epistemology, the philosophy of art, the philosophy of nature, and the development of the notion of the unconscious. (Also listed as GRST 3361.)
Prerequisite: PHIL 1301.

PHIL-3327 The Philosophies of India
A study of the classical traditions of Buddhist and Indian (Hindu) philosophies. The emphasis will be on issues of perennial philosophical concern to both Eastern and Western thought such as: the nature of the self and the problem of personal identity, monism and pluralism, immortality and reincarnation, knowledge and illusion.
Prerequisite: PHIL 1301.

PHIL-3328 The Philosophies of China
A study of the three major indigenous philosophical movements in China: Confucianism, Taoism, and Neo-Confucianism. Special attention will be paid to themes and problems common to all three movements, including: the metaphysics of harmony and conflict, the individual and society the cultivation of human virtues and human perfectibility, and humankind's relation to nature. Course taught in English. (Also listed as CHIN 3328.)
Prerequisite: PHIL 1301.

PHIL-3329 Continental Philosophy
A close reading of some of the major texts of twentieth-century French and German philosophy, with some attention to their roots in nineteenth-century philosophy.
Prerequisites: PHIL 1301 and 3322.

Metaphysics
PHIL-3330 Metaphysics
A survey of traditional and contemporary philosophical issues about the nature of reality. Typical topics covered include some of the following: the mind-body problem, personal identity, free will and determinism, causation, time, fatalism, universals and particulars, essentialism, possible worlds.
Prerequisite: PHIL 1301.

PHIL-3331 Philosophy of Mind
A critical study of contemporary approaches to the mind-body problem, including dualism, behaviorism, the identity theory, and functionalism. Also addressed will be such other issues as the nature of mental representation, the possibility of artificial intelligence, and the sources of intentionality.
Prerequisite: PHIL 1301.

PHIL-3332 Philosophy of Science
A study of philosophical views about the sciences. Topics may include: explanation, confirmation, the historical development of science, realism vs. anti-realism, the relation between the natural sciences, and the difference between science and pseudo-science.
Prerequisites: Either PHIL 1301; and 2340 or 9 hours in any one of the natural or social sciences.

PHIL-3333 Philosophy of Language
A critical study of contemporary issues about language, meaning, reference, translation, and interpretation.
Prerequisites: PHIL 1301 and 2340.

PHIL-3338 Philosophy of Religion
A critical discussion of philosophical issues arising in religion and theology. Typical topics covered include: religious language, arguments for God’s existence, religious experience, miracles and revelation, the relationship of faith and reason, the nature of God, the problem of evil, death and immortality. (Also listed as RELI 3360.)
Prerequisite: PHIL 1301 or 1 course in Religion.

PHIL-3339 Epistemology
A critical study of problems in the theory of knowledge, such as: the difference between knowledge and belief; the possibility of knowledge; the conditions under which a belief is rational.
Prerequisites: PHIL 1301 and 3322.

Advanced Logic

PHIL-3340 Symbolic Logic II
Topics include: Review of first-order logic from a more abstract perspective than that taken in PHIL 2340; introduction to set theory; basic metalogical results including soundness, completeness, compactness, the Lowenheim-Skolem theorem, and Godel’s incompleteness theorems; connections with issues in computability theory and the foundations of mathematics.
Prerequisite: PHIL 2340 or consent of instructor, or CSCI 1323.

PHIL-3343 Non-Classical Logic
Extensions of, and alternatives to, classical logic. Possible topics include modal logic, intuitionist logic, many-valued logic, and fuzzy logic. Some attention to connections between these logics and topics in philosophy, computer science, and other areas.
Prerequisite: PHIL 2340 or consent of instructor.

Value Theory

PHIL-3350 Philosophy of Culture
Inquiry into the different forms and forces which shape contemporary life. The value and impact of art, science, and social, economic, and political technology as determinants of an emerging culture in the 21st century.
Prerequisites: PHIL 1301 and either PHIL 3320 or 3322.
PHIL-3351 Social and Political Philosophy
A critical study of philosophical views about society and politics, with particular attention to the concepts of sovereignty, obligation, rights, justice, equality, and liberty.
Prerequisite: PHIL 1301 or 1354.

PHIL-3352 Ethical Theory
A discussion of issues in normative ethics and metaethics. Typical topics covered include some of the following: the meaning of ethical terms, the justification or moral principles and judgments, intrinsic and extrinsic value, consequentialism and deontology, moral relativism, natural rights, theories of justice.
Prerequisite: PHIL 1301 or 1354.

PHIL-3353 Philosophy of Law
A critical study of legal theory, legal reasoning, and the role of law in contemporary society.
Prerequisite: PHIL 1301 or 1354.

PHIL-3354 Philosophy of Gender
A study of issues in the philosophy of gender, through the reading the work of historical and contemporary theorists. Topics may include the ontology of sex, gender, and sexuality; the nature and goals of feminism; homosexual rights; the ethics of consent; pornography; and prostitution; and gendered language.
Prerequisites: PHIL 1301, WAGS 2350, 2351, 2352.

PHIL-3355 Aesthetics
A study of issues in the philosophy of the arts, through the examination of works of art and the reading of historical and contemporary philosophers and critics. Topics to be discussed include: what makes something a work of art, the nature of artistic representation, the evaluation of works of art, and problems peculiar to such specific art forms as literature, painting, music, and film.
Prerequisite: PHIL 1301.

PHIL-3356 Marx and Marxism
In this class, students will study the ideas of Karl Marx and the impact they have had on 20th century thought. The class will have two components: the philosophy of Marx and the contemporary application of Marxist principles to various problems and disciplines.
Prerequisite: sophomore standing.

PHIL-3357 Philosophy of Film
A study of issues in the philosophy of film, through reading the work of historical and contemporary philosophers and critics, and studying films. Topics may include: the nature of film, its status amongst the arts, issues of authorship and narrativity, issues of interpretation, and the nature and ethics of documentary.
Prerequisite: one of PHIL 1301, FILM 1301, or FILM 2301.

PHIL-3358 Philosophy of Music
In this course we will investigate several philosophical issues raised by music, from the question of what exactly music is, through the nature of various musical objects (works, performances, recordings), to how we should approach music, and what its value is. Throughout we will question how far the theories we discuss can be applied beyond their (typical) application to Western classical music. Students will be expected to bring their experience- as composers, performers, and listeners- to bear on the issues we discuss. (Also listed as MUSC 3358.)
Prerequisite: one of PHIL 1301, MUSC 1301, 1203 or consent of instructor.

PHIL-3359 Biomedical Ethics
A study of ethical issues associated with the practice of medicine and the pursuit of biomedical research. Topics may include: physicians' obligations and patients' rights; experimentation on humans and animals; assisted suicide; euthanasia; abortion and parental rights; genetic engineering; and social justice and the right to health care.

PHIL-3360 Philosophy of Literature
In this course we will investigate several philosophical issues raised by literature, such as what exactly literature is, the nature of literary authorship and interpretation, why it is we respond emotionally to fictional characters, and what the value of engaging with literature is. (Also listed as ENGL 3339.)
Prerequisite: PHIL 1301 or six hours of English.
PHIL-3361 Theorizing Myth

A survey of theoretical approaches to myth from the eighteenth century to the present. This survey begins with the transition from renaissance belief that myth is a form of moral instruction conveyed by allegory to the romantic belief that myth is a symbolic mode of discourse offering insight into transcendental reality. We will then chart the evolution of this approach, beginning with its inspiration in Kantian metaphysics and earliest formulations by German romantics such as Schiller and proceeding on to Freud and Ricoeur. A second strand begins with Hegel’s theories of “false consciousness” that would in time develop into interpretations of myth as ideology, under the influence of Marx, Adorno, and Althusser. A final strand begins with the early folklorists, the brothers Grimm, and would in time develop into functionalist approaches to myth by anthropologists such as Malinowski, Boas, and Levi-Strauss. The resulting big picture is as much an intellectual history of modernity as a history of theorizing myth. (Also listed as CLAS 3350.)

Prerequisite: sophomore standing or consent of instructor.

Seminars and Special Courses

Successful completion of 6 upper-division hours in philosophy is a prerequisite for all courses in this category.

PHIL-3-90 Directed Studies

Individual work under faculty supervision. 1 to 3 semester hours.
Prerequisite: consent of instructor.

PHIL-4-90 Directed Studies

Individual work under faculty supervision. 1 to 3 semester hours.
Prerequisite: consent of instructor.

PHIL-4391 Seminar on a Philosophical Problem

An in-depth study of a contemporary problem in philosophy.
Prerequisites: 6 upper-division hours or consent of instructor.

PHIL-4392 Seminar on a Philosopher

A careful analysis of the work of a particular philosopher. Topics may vary but include: A. Aristotle; B. Austin; D. Descartes; E. Hegel F. Locke; K. Kant; M. Marc; P. Plato; W. Wittgenstein; Z. other figures.
Prerequisites: 6 upper-division hours of Philosophy.

PHIL-4393 Seminar on a Philosophical Movement

An intensive study of works of the philosophers in a particular philosophical school or movement. The seminar may take a chronological approach or it may be topical in structure.
Prerequisites: 6 upper-division hours of Philosophy.

PHIL-4395 Senior Thesis

Research and classroom discussion culminating, for each student, in a thesis to be defended before Philosophy Department faculty. Supervision for thesis provided by course instructor and a second faculty member with expertise in student’s area of research.
Prerequisites: senior standing and consent of the department chair.

PHIL-4396 Thesis I

Taken during the Spring semester of the Junior year. Students draft a thesis under the supervision of a faculty member. The completed draft will be defended before the members of the department, who will decide whether it should be developed further. Students who do outstanding work in Thesis I will be invited to enroll in Thesis II. Students who take Thesis II are not eligible to enroll in PHIL 4396 (Senior Thesis). Requires consent of chair and instructor.

PHIL-4397 Thesis II

Taken during the Fall semester of the Senior Year. In thesis II students will complete the theses that they drafted in Thesis I. The completed essay will be defended before the members of the department, who will decide whether to confer Departmental Honors. Requires consent of Department Chair and Instructor, and completion of PHIL 4396.
Faculty

CURTIS BROWN, Ph.D., Professor

DAMIAN CALUORI, D.Phil., Assistant Professor

ANDREW KANIA, Ph.D., Associate Professor

LAWRENCE D. KIMMEL, Ph.D., Professor

STEVEN LUPER, Ph.D., Professor, Chair

JUDITH R. NORMAN, Ph.D., Professor
TRINITY UNIVERSITY

Courses of Study 2011 - 2012

Physical Education

Requirements

FITNESS EDUCATION REQUIREMENT

The fitness education requirement can be fulfilled by completing one of the activity courses that are labeled PHED 11xx. In addition, PHED 1301 (Concepts of Lifetime Fitness), PHED 1106 Sport Officiating Laboratory, and DRAM 1154 (Dance for Theatre) may be used to fulfill the requirement. See the "Degree Requirements" section of the Courses of Study Bulletin for a full description of the requirement.

Courses

PHED-1301 Concepts of Lifetime Fitness

An analysis of the basic components of physical fitness including scientific information pertinent to the development of individualized exercise programs. Course content addresses cardiovascular endurance, muscular endurance, strength, flexibility, and weight control.

PHED-1303 Nutrition

Comprehensive study of dietary requirements, sources of various nutrients and the relationship of food to health. The role of diet and exercise in relation to obesity, weight control and degenerative disease.

PHED-1304 Prevention, Care, and Rehabilitation of Athletic Injuries

Paramedical training for the recognition, prevention and treatment of sport injuries. Includes preventive and rehabilitative exercise, emergency procedure, therapeutic modalities, and taping mechanics.

PHED-2101 Apprentice Teaching

Provides the student with an opportunity to assist in teaching an activity course for one semester. Prerequisite: Consent of instructor. (Note: This course may be taken three times in different activities.)

PHED-3302 Motor Learning

A study of the motor and cognitive characteristics involved in learning and performing motor skills.

PHED-3304 Physiology of Exercise

The effects of exercise and the adaptation of the body to physiological stress. Includes physiology of training and conditioning, metabolism and work capacity, the cardiovascular system during exercise and metabolism and weight control.

PHED-3306 Kinesiology

Functional application of the laws and principles of movement in sports performance and daily living. Includes material relevant to movement description, mechanics, force and leverage, translatory and rotary motion, strength measurement, and exercise analysis.
PHED-3310 Adapted and Developmental Physical Education
Adapted Physical Education develops beginning level knowledge and skills to meet individual needs in physical education, recreation, sport, fitness, and rehabilitation settings.

PHED-3311 Essentials of Strength Training and Conditioning
This course will focus on the basic principles underlying strength training and conditioning with particular emphasis on the physiological adaptations that take place in the body as a result of this training.

PHED-3-90 Directed Study in Physical Education
Independent study or research, or advanced selected topics in physical education that are not covered in other classes. Variations in credit according to the work performed, 1 to 3 hours. Class may be repeated for a maximum of 6 credit hour, provided the topic varies.

ACTIVITY COURSES

PHED-1101 Aerobic Dance
The use of dance steps and combinations to achieve aerobic fitness. Flexibility and muscular endurance are also included.

PHED-1102 Aerobic Fitness
Evaluation, development and implementation of a personal fitness program with emphasis on circulatory fitness.

PHED-1103 Weight Training
Resistive training principles and methods. Isometric, isotonic and isokinetic procedures. Individual appraisal and practice.

PHED-1104 Weight Management and Exercise
A course designed to help each student understand the basic information relative to weight management and exercise. Based on an evaluation, each student will design and implement an exercise and nutrition program designed to lose weight.

PHED-1105 Rape Aggression Defense
A basic self-defense course for women that provides them with the information, tactics, and skills that they can use to protect them from aggressive acts that they may encounter.

PHED-1111 Introduction to Swimming
Fundamentals of swimming including front crawl, back crawl, elementary backstroke, breast and side strokes. Diving, treading, floating and elementary life-saving techniques are introduced.

PHED-1112 Fitness Swimming
Advanced swimming for cardiovascular endurance.

PHED-1113 Life Guard Training
A course designed to teach the skills, techniques, and responsibilities of lifeguarding which fulfills the American Red Cross Lifeguard certification requirements.

PHED-1114 Water Polo
Fundamentals of the sport of water polo including dribbling, passing, shooting, defense, etc., will be emphasized. Participation will require intermediate to advanced swimming skills.

PHED-1121 Badminton
Fundamentals of badminton including overhead and underhand strokes, short and long serves, around the head strokes, and service returns. Rules and strategies for singles and doubles play.

PHED-1122 Fencing I
Fundamentals of fencing including the lunge, advance and retreat, balestra, offensive and defensive positions and strategies. Rules, officiating and scoring.

PHED-1123 Fencing II
Review of fencing, advanced fencing techniques and introduction of epee and saber.

PHED-1124 Golf I
Fundamentals of the grip, stance, swing, putting and sand shots. Club selection, rules, scoring and etiquette.

PHED-1125 Golf II
Review of fundamentals of golf. Participation at pitch and putt and local golf courses.

PHED-1126 Racquetball I
Basic skills of racquetball including the forehand, backhand, drive serve, lob serve, ceiling, sidewall, and backwall shots. Rules and strategies of singles and doubles play.

PHED-1127 Racquetball II
Advanced skill development and playing strategies.

PHED-1128 Tennis I
Fundamentals of tennis including forehand, backhand, volley, serve, and overhead. Rules and strategies for singles and doubles play.

PHED-1129 Tennis II
Review of the basic strokes in beginning tennis and the addition of dropshot, approach shot, spins and serve variations. Singles and doubles strategies for the intermediate player.

PHED-1130 Tennis III
Skills, strategies and drills for qualified students who wish to play at a competitive level. (Student are responsible for entry fees for playing local tournaments.)
Prerequisite: organized competitive experience.

PHED-1131 Trap and Skeet I
Fundamental skills of skeet and trap shooting including position, tracking, aiming, leading, and firing. Firearms safety will be covered in relation to all firearm sports.

PHED-1132 Trap and Skeet II
Advanced techniques of trap and skeet shooting including the mental aspects of competition, advanced skills, equipment care and safety factors.
Prerequisite: PHED 1131 or consent of instructor.

PHED-1133 Triathlon Training
A course designed to teach the skills, techniques, and training principles necessary to prepare for participation in the sport of triathlon: swimming/cycling/running.

PHED-1134 Conditioning and Weight Training
A course designed to teach students how to develop and implement a comprehensive exercise program that includes both aerobic fitness and weight training.

PHED-1135 Tae-Bo
A course designed to teach students how to develop their level of aerobic fitness by participating in an intense aerobic workout, tone and strengthen their muscles, and learn valuable self-defense skills.

PHED-1136 Introduction to Hatha Yoga
This course teaches the basics of Hatha Yoga. Students learn techniques for developing strength, flexibility, and control through the use of basic postures, combinations and relaxation.

PHED-1137 Roller Skating
This course is designed to teach students the basic skills they need to participate in Roller Skating as part of a healthy active lifestyle.

PHED-1138 Continuing Studies in Hatha Yoga
This course continues the study of Hatha yoga. The more intense practice will help each student increase strength, flexibility and endurance. Students will gain a greater understanding of how to incorporate yoga into their lives. New concepts, including strategies for a healthy lifestyle, will also be explored.
Prerequisite: PHED 1136.

PHED-1139 Training for Speed, Power, and Agility
This course is designed to teach students how to develop and implement a comprehensive training program designed specifically for development of speed, agility and power where the emphasis is on Plyometrics and other high-intensity activities.

PHED-1141 Basketball
Fundamentals of basketball including passing, dribbling, shooting and rebounding. Offensive and defensive drills, team play, rules and strategies.

PHED-1142 Soccer I
Beginning fundamentals of soccer including soccer techniques, soccer tactics, soccer fitness, soccer psychology, rules and history.

PHED-1143 Soccer II
Review of basic fundamentals and advanced play.

PHED-1144 Volleyball I
Power volleyball: the skills of the pass, serve, set, attack, block and floor defense. Rules and strategies for team play.

PHED-1145 Volleyball II
Review of basic skills of volleyball. Introduction to advanced skills and strategies.

PHED-1151 Ballet I
History of ballet, basic technique, vocabulary, combinations and style. Local concerts and critiques.

PHED-1152 Ballet II
Advanced ballet technique, center combinations and variations. Comparison of major companies and performers.

PHED-1153 Ballroom Dance I
Basic steps and variations for the following dances: fox trot, waltz, swing, polka, rhumba, cha cha, samba, tango, mambo and merengue. Rhythmic analysis, music recognition and techniques of leading and following.

PHED-1154 Ballroom Dance II
Review of ballroom dance, advanced techniques and variations for American and Latin dances.

PHED-1155 Country/Western Dance I
Basic steps and variations for the following dances: cotton eyed joe, schottische, western two step, western waltz, Texas two step, Texas two step swing, western swing, western polka, put your little foot and 10-step polka. Rhythmic analysis and techniques of leading and following.
PHED-1156 Country/Western Dance II
A continuation of Country/Western Dance I. Includes advanced variations and sequenced combinations.

PHED-1157 Country/Western Dance III
Performance level of country/western dance. Audition required.

PHED-1158 Jazz
Beginning elements of technique, vocabulary and style. History of jazz, differing styles of technique and study of performers who have influenced jazz.

PHED-1159 Modern Dance I
Beginning techniques and composition of modern dance.

PHED-1160 Introduction to Running
Introduces the basic running principles of running and prepares students to complete a 5 kilometer race by the end of the course.

PHED-1161 Half Marathon Challenge
Introduces the advanced training principles of running and prepares the student to complete a Half Marathon by the end of the course.

PHED-1162 Cardio Tennis
In this course, students will improve their physical fitness as well as their tennis skills by engaging in dynamic, high energy tennis drills in a group environment.

PHED-1163 Baseball
An introduction to the fundamentals of baseball including the history, rules, regulations, techniques, and mechanics.

PHED-1164 Springboard Diving
An introduction to the fundamentals of springboard and dry-land diving.

PHED-1165 Intramural Programming
In this course, students will plan and participate in new recreational opportunities. Students will create an event and teach their classmates the rules, regulations, and policies for that particular sport or recreation activity and then participate in that event as a group.

PHED-1166 Body Pump
This course combines strength training and aerobic conditioning in one class through the use of dumbbells, weight bars, and a step platform. This course will be taught in a high-energy environment.

PHED-1167 Cardio Bootcamp
This course is an intermediate form of physical conditioning which combines high energy cardio-respiratory activity with military-style physical training to improve muscular endurance, cardio-respiratory endurance, flexibility, and body composition.

PHED-1168 Pilates
This class focuses on physical conditioning based on the theories and principles of Joseph H. Pilates. Mat-work principles incorporate exercises that increase muscular strength, muscular endurance, flexibility, balance, and coordination.

PHED-1169 Tap Dance
This course is designed for the beginning or intermediate tap dancer to learn or perfect tap dance technique.
Faculty

AMIE BRADLEY, B.B.A., Instructor; Coach

JENNIFER BREUER, M.S., Instructor; Coach; Coordinator of Physical Education Activities

PATRICK J. CUNNINGHAM, M.S., Instructor; Coach

JULIE B. JENKINS, M.S., Instructor; Coach

LANCE KEY, B.A., Instructor; Coach

PAUL McGINLAY, B.A., Instructor; Coach

STEVEN M. MOHR, M.Ed., Instructor; Coach

GEORGE POWELL, B.S., Instructor; Athletic Trainer

JOHN RYAN, M.A., Instructor; Coach

TIM SCANNELL, B.S., Instructor; Coach

ERICA SCHARFENSTEIN, M.S., Instructor; Aquatics Director

NICOLE SMITH, M.Ed., Instructor; Coach

DAVID SVOBODA, M.S., Instructor; Coach
TRINITY UNIVERSITY

Courses of Study 2011 - 2012

Physics and Astronomy

Requirements

THE MAJOR

The requirements for the degree of Bachelor of Arts with a major in Physics are as follows:

I. The common curriculum

II. Departmental requirements:

A. The major: 30 semester hours in Physics, including the following or equivalent courses: PHYS 1111, 1112, 1311 (or 1309), 1312 (or 1310), 2094 (four semesters), 2131, 2132, 3321, 3322, 3323, 3335, 4121 or 4131, and at least two of the following five courses: 3325, 3333, 4122, 4132, 4395.

B. Additional requirements: MATH 1311, 1312, 2321, 3316, CSCI 1320.

C. Completion of Wagner Senior Assessment Exam in fall of the senior year.

III. Electives sufficient to total 124 hours.

The above are minimal requirements allowing students to supplement their programs with those courses best suited to fulfill their particular needs and to further their professional growth.

The requirements for the degree of Bachelor of Science with a major in Physics are as follows:

I. The common curriculum

II. Departmental requirements:

A. At least 38 semester hours in Physics, including the following or equivalent courses: PHYS 1111, 1112, 1311 (or 1309), 1312 (or 1310), 2094 (four semesters), 2131, 2132, 3321, 3322, 3323, 3325, 3333, 3335, 3336, 4121, 4122, 4131, 4132, 4395. (Honors students will take 3398, 4398, 4399 in place of 4395; these students are required to take 44 hours of Physics.)

B. MATH 1311, 1312, 2321, 3316, 3357, CSCI 1320.

C. Completion of Wagner Senior Assessment Exam in fall of the senior year.

III. Electives sufficient to total 124 hours.

The Bachelor of Science Program is designed to prepare students for graduate work in Physics. The above are minimal requirements allowing students to supplement their programs with those courses best suited to fulfill their particular needs and to further their professional growth.

GUIDELINES FOR ACCEPTANCE OF MAJORS

Full acceptance in the major is granted if the following requirements are met at the time of application:
1. Completion of PHYS 1111, 1112, 1311 (or 1309), 1312 (or 1310), 3323 with grades of C or better; 
2. Completion of MATH 1311, 1312 with grades of C or better; and 
3. A grade point average of at least 2.0 on all university work.

Provisional acceptance in the major is granted if it is apparent that the applicant can meet the requirements for full acceptance by the end of the semester in which the application is made.

Transfer students will be accepted provisionally pending completion at Trinity of at least one upper division course with a grade of C or better.

HONORS IN PHYSICS

A student in Physics may work toward Honors in Physics under the Bachelor of Science Degree program. The requirement for Honors in Physics is the successful completion of the Bachelor of Science program except that an honors student will take PHYS 3398, 4398, 4399 in place of 4395 and will be required to take a total of 44 hours of physics. During the junior year, a student who is eligible for honors will, after consultation with the chair of the Physics and Astronomy Department, enroll in 3398; part of the requirement of this course will be to prepare a thesis proposal. In the second semester of the junior year, an honors student will present a thesis proposal and credentials to the department faculty. Upon approval of the proposal, a student may enroll in PHYS 4398, 4399 during the senior year. By the end of the senior year, the thesis must be presented and defended before the Physics and Astronomy Department Faculty.

THE MINOR IN PHYSICS

A minor in Physics will consist of 18 semester hours of Physics. At least 9 semester hours must be at the upper division level. The minor will normally include the following or equivalent courses: PHYS 1111, 1112, 1311 (or 1309), 1312 (or 1310), 2094 (1 semester), 3323, plus seven additional hours of physics, six of which must be upper division.

THE MINOR IN ASTRONOMY

The minor in astronomy will consist of 19 semester hours of the following Physics courses:

- PHYS 1305 (Stellar and Extragalactic Astronomy)
- PHYS 1103 (Observational Astronomy)
- PHYS 1311 (Introduction to Mechanics) or 1309 (General Physics I)
- PHYS 1312 (Introduction to Electricity, Magnetism and Waves) or 1310 (General Physics II)
- PHYS 3323 (Introduction to Modern Physics)
- PHYS 3350 (Astrophysics)

Plus three hours selected from the following:

- PHYS 3321 (Statistical Physics and Thermodynamics)
- PHYS 3322 (Classical Mechanics and Nonlinear Dynamics)
- PHYS 3325 (Optical Physics)
- PHYS 3348 (Atmospheric Physics)
- PHYS 3129 (Research Participation II)
- PHYS 3-90 (Directed Studies - Junior Level)
- PHYS 3-92 (Directed Studies for Secondary School Science Teachers - Junior Level)

The three additional hours can be any combination of PHYS 3129, 3-90 or 3-92 and 3129 and 3-9- may be repeated for additional credit with different content. The Chairperson of the Department of Physics and Astronomy must approve the selected content of 3129, 3-90 or 3-92 as relevant to the minor in astronomy.

Courses

PHYS-1103 Observational Astronomy

A laboratory course to accompany either PHYS 1304 or 1305. Basic use of a telescope, including celestial coordinates and time systems. Visual observations of the Sun, Moon, planets and their satellites, stars, star clusters, nebulae, galaxies. Further possible topics include photometry, spectroscopy, electronic imaging. One field trip to a dark observing site may be required. May be taken only once for credit.

Either PHYS 1304 or 1305 is a prerequisite or a corequisite.
PHYS-1106 Reproduction of Sound Laboratory
Laboratory to accompany PHYS 1306. Simple DC and AC electrical circuits and the principles and methods used in the electrical reproduction of sound. PHYS 1306 must be taken concurrently.

PHYS-1111 Introductory Physics Laboratory
Laboratory to accompany PHYS 1309 or 1311. Topics include: electrical circuits, computer assisted data-acquisition and data analysis, experiments in classical mechanics and thermodynamics.
Corequisite: PHYS 1309 or 1311 must be taken concurrently.

PHYS-1112 Intermediate Physics Laboratory
Laboratory to accompany PHYS 1310 and 1312. Topics include: transient circuits, AC circuits, instrumentation, geometrical optics, physical optics, spectra, radioactivity.
Prerequisite: PHYS 1111.
Corequisite: PHYS 1310 or 1312 must be taken concurrently.

PHYS-1194 Physics and Society Seminar
Discussion of the historical, sociological, philosophical implications and cultural context in which physics research is done and the implications of that research.
Prerequisite: PHYS 3323.

PHYS-1302 Frontiers of Physics
An introduction to the methods and results and philosophical implications of modern physics. Topics include: special and general relatively; the wave-particle theory of light and matter; atomic, nuclear and particle physics; future explorations.

PHYS-1303 The Earth's Changing Environment
An introduction to the application of physics to understanding environmental processes. Topics include: force, energy, power, thermodynamics, energy transfer, environmental biophysics, the Greenhouse effect, the ozone layer, energy conservation, nuclear processes and solar energy.

PHYS-1304 Solar System Astronomy
A survey of the nature of the solar system. Topics include: gravity, orbital motion of planets and moons, time and calendars, lunar and solar eclipses, the solar wind and planetary magnetospheres, planetary atmospheres and comparative planetary climatology, evolution of planetary surfaces, asteroids, comets and meteors. May be taken without enrolling in PHYS 1103.

PHYS-1305 Stellar and Extragalactic Astronomy
A survey of the property of stars and of galaxies and modern theories of cosmology. Topics include: distances, masses, sizes, motions, magnitudes and spectra of stars; stellar structure and evolution; pulsars and black holes; star clusters, nebulae, interstellar gas and dust; galactic structure; quasars, active galaxies, clusters of galaxies, large-scale structure in the universe; extra-galactic distance scale, big bang theory, inflationary model, convergence of particle physics and cosmology; the nature of light and astronomical instruments. PHYS 1304 is not a prerequisite for PHYS 1305. May be taken without enrolling in PHYS 1103.

PHYS-1306 Sound Waves and Light Waves
Wave phenomena with particular emphasis on sound waves and human hearing and on light waves and human vision. Topics include the nature of musical sounds, musical instruments, and musical scales; various optical phenomena such as reflection, refraction, color, interference, polarization, optical instruments, lasers and holography. Appropriate for the student not majoring in science.

PHYS-1307 Introduction to Nanotechnology
An introduction to current nanotechnology fabrication methods and applications aimed at nonscience majors. This course will explore how material properties change at the nanoscale and how these properties can be utilized in technological applications and consumer products. Topics include scientific concepts behind nanotechnology, microscopy at the nanoscale, medical applications, consumer applications, ethical concerns, and the environmental impact of nanotechnology.

PHYS-1309 General Physics I
A calculus-level introduction to classical mechanics and its applications. Topics include: particle kinematics, Newton's laws of motion, kinetic and potential energy, work, linear and angular momentum, torque, statics, simple harmonic motion, mechanical waves, sound, fluids, thermal physics, and applications in biology, medicine, and geology. This course is appropriate for biology, chemistry, and geosciences majors. Only one of PHYS 1309 or 1311 may be taken for credit.
Prerequisite: MATH 1311 or 1307 (either may be taken concurrently); PHYS 1111 is normally taken concurrently but is not required.
PHYS-1310 General Physics II
A calculus-level introduction to electric fields, magnetic fields, light waves, and modern physics. Topics include: electric fields, electric current, electric circuits, magnetic fields, electromagnetic induction, electromagnetic waves, geometrical optics, physical optics, quantum physics, atomic physics, lasers, nuclear physics and applications in biology, medicine, and geology. This course is appropriate for biology, chemistry, and geosciences majors. Only one of PHYS 1310 or 1312 may be taken for credit.
Prerequisite: PHYS 1309 or 1311; PHYS 1112 is normally taken concurrently but is not required.

PHYS-1311 Introduction to Mechanics
A calculus-level introduction to classical mechanics. Topics include: particle kinematics, Newton's laws of motion, kinetic and potential energy, linear and angular momentum, torque, statics, simple harmonic motion, mechanical waves, and sound. This course is appropriate for physics and engineering science majors. Only one of PHYS 1309 or 1311 may be taken for credit.
Prerequisite: MATH 1311 or 1307 (either may be taken concurrently). PHYS 1111 is normally taken concurrently but is not required.

PHYS-1312 Introduction to Electricity, Magnetism And Waves
A calculus-level introduction to electric fields, magnetic fields, and light waves. Topics include: electric fields, Gauss's Law, electric potential, magnetism, Ampere's Law, electromagnetic induction, Lenz's Law, Maxwell's Equations, geometrical and physical optics. This course is appropriate for physics and engineering science majors. Only one of PHYS 1310 or 1312 may be taken for credit.
Prerequisites: PHYS 1311 (or 1309) and MATH 1312 (may be taken concurrently). PHYS 1112 is normally taken concurrently but is not required.

PHYS-2-90 Directed Studies - Sophomore Level
Individual research under faculty supervision or independent study under faculty supervision in fields not covered by other courses. Credit may vary from 1 to 3 hours. This course may be repeated for additional credit; however, no more than 3 total hours may be counted toward a major in physics.
Prerequisite: consent of the Department Chair.

PHYS-2094 Physics Seminar
Attendance at departmental seminars. Grade is based on attendance.

PHYS-2128 Research Participation I
Individual research participation under faculty supervision.
Prerequisite: consent of the Department Chair.

PHYS-2131 Sophomore Experimental Physics I
Rigorous experimental work, including data handling and scientific writing. Experiments are drawn from the areas of mechanics, electricity and magnetism, optics, and nuclear physics. Meets 3 hours per week.
Prerequisites: PHYS 1111, 1112, 1312 (or 1310).

PHYS-2132 Sophomore Experimental Physics II
Continued instruction in experimentation, data analysis and scientific writing. Experiments are drawn from the areas of mechanics, electricity and magnetism, optics, and nuclear physics. Meet 3 hours per week.
Prerequisite: PHYS 2131.

PHYS-2311 An Introduction to Biophysics
A basic introduction to the application of physical principles to biological systems on nanometer-to-micrometer length scales. Questions addressed include: What are the forces that hold a cell together? How can a cell exert forces resulting in cell motion? What are the forces and energies involved in DNA functioning, protein folding, and nerve-signal transmission? How do the forces and energies at the molecular level ultimately generate the forces and energies required for macroscopic motion?
Prerequisites: MATH 1307 or 1311 and any one of the following four courses: BIOL 1311, CHEM 1318. PHYS 1309, or PHYS 1311.

PHYS-3129 Research Participation II
Individual research participation under faculty supervision.
Prerequisites: PHYS 2128 and consent of the Department Chair.

PHYS-3312 Environmental and Exploration Geophysics
An introduction to the use of physical principles and measurements in the study of the Earth's subsurface, with an emphasis on applications in environmental science, engineering, mineral exploration, and archaeology. Topics include Fourier analysis, seismic waves in elastic media, refraction tomography, reflection seismology, multichannel analysis of surface waves, gravity, electrical resistivity, and ground-penetrating radar. (Also listed as GEOS 3312.) Field trips are required; field trip expenses must be paid by each student.

Prerequisite: PHYS 1310 or 1312 (may be taken concurrently).

**PHYS-3321 Statistical Physics and Thermodynamics**

An introduction to the subjects of statistical mechanics, kinetic theory, thermodynamics and heat.

Prerequisites: PHYS 1310 or 1312, MATH 2321 (may be taken concurrently).

**PHYS-3322 Classical Mechanics and Nonlinear Dynamics**

Newtonian dynamics and kinematics utilizing the vector calculus. Topics include momentum, work and potential energy, angular momentum, rigid body dynamics, harmonic oscillators, central force motion, non-inertial systems, chaotic kinematics, and non-linear systems.

Prerequisites: PHYS 1312 (or 1310), MATH 2321 (may be taken concurrently).

**PHYS-3323 Introduction to Modern Physics**

A quantitative survey of modern physics. Topics include: special relativity, wave-particle duality, and Schrödinger equation, identical particles, solid state, and high energy physics.

Prerequisites: PHYS 1312 (or 1310), MATH 2321 (may be taken concurrently).

**PHYS-3325 Optical Physics**

The nature and propagation of electromagnetic waves and their interaction with matter. Topics from geometrical optics include reflection, refraction, mirrors and lenses. Topics from physical optics include polarization, interference, and Fraunhofer and Fresnel diffraction.

Prerequisites: PHYS 1312 (or 1310) and MATH 1312.

**PHYS-3333 Quantum Physics I**

Introduction to the theory of quantum mechanics. Stationary states and time evolution of solutions to the Schrödinger equation. Observables, operators and eigenvalues. The harmonic oscillator, angular momentum, central potentials, and perturbation theory.

Prerequisites: MATH 2321, PHYS 3323.

**PHYS-3335 Electromagnetic Fields**

An intermediate course on electromagnetic theory. Electrostatic field and potential, Gauss's law, conductors, electric dipole and multipoles, solutions to Laplace's equation, method of images, dielectric media, electrostatic energy, electric current. Magnetic field of steady currents, including the law of Biot and Savart, Ampere's law, magnetic vector potential. Electromagnetic induction. Introduction to Maxwell's equations.

Prerequisites: PHYS 3322, MATH 3316 (may be taken concurrently).

**PHYS-3336 Advanced Theoretical Physics**

An advanced course on electromagnetic theory and classical mechanics. Magnetic materials, inductance, magnetic energy, transient and steady-state behavior in circuits with time variable currents, full development of Maxwell's equations, propagation of electromagnetic waves, waves in bounded regions, radiation emission. Lagrangian and Hamiltonian dynamics, rigid body motion. Further possible topics include special relativity, plasma physics, fluid mechanics, and coupled oscillations.

Prerequisites: PHYS 3335, MATH 3316.

**PHYS-3348 Atmospheric Physics**

The physics of planetary atmospheres and the role of the atmosphere in determining climate. Topics include: global radiative equilibrium, radiative transfer, thermodynamic processes in the atmosphere, the general circulation, cloud formation, the ozone layer, instrumentation and data bases.

Prerequisite: PHYS 1310 or 1312.

**PHYS-3350 Astrophysics**

The application of physics to understanding stars and systems of stars. Topics include: cosmic distance scale, gravitational dynamics, statistical mechanics, electromagnetic processes, quantum effects, stars, cosmic gas and dust, quasars, cosmology.

Prerequisite: PHYS 1310 or 1312.

**PHYS-3-90 Directed Studies - Junior Level**

Individual research under faculty supervision or independent study under faculty supervision in fields not covered by other courses. Credit may vary from 1 to 3 hours. This course may be repeated for additional credit; however, no more than 3 total hours may be counted toward a major in physics.
PHYS-3-92 Directed Studies for Secondary School Science Teachers - Junior Level

Students work under supervision of a faculty member on a project that will be applicable to their future careers in teaching secondary school science. Oral and written communication of results are required. May be taken 1 or 2 hours per semester with no more than 4 cumulative credit hours possible.

Prerequisites: Junior standing and completion of at least six science and mathematics courses and consent of instructor.

PHYS-3398 Honors Reading

Individual research and study under faculty supervision in preparation for Honors Thesis work.

Prerequisite: consent of the Department Chair.

PHYS-4121 Photonics and Electronics Laboratory I

An introduction to the use of lasers, fiber optics, and semiconductor-based electronics in modern technology and physics research. Laboratory projects include digital and analog integrated circuits, electronic and optical-based signal processing and communication devices. Meets 3 hours per week.

Prerequisites: PHYS 2132, 3323 (may be taken concurrently), or consent of instructor.

PHYS-4122 Photonics and Electronics Lab II

Continued hands-on instruction in the use of lasers, fiber optics and semiconductor-based electronics in modern technology and physics research. Laboratory projects include fiber-optic sensors and Michelson interferometry. Meets 3 hours per week.

Prerequisite: PHYS 4121.

PHYS-4131 Advanced Experimental Physics I

Experimental methods of modern physics. Topics include: atomic physics, radioactivity, interference, diffraction and electronics.

Prerequisites: PHYS 2132, 3323 (may be taken concurrently), or consent of Instructor.

PHYS-4132 Advanced Experimental Physics II

Advanced experimental techniques in modern physics. Rigorous analysis of experimental data and competent scientific writing form an integral part of the course. Topics include: atomic physics, advanced optics, laser physics, transport phenomena, and reduced temperature measurements.

Prerequisite: PHYS 4131.

PHYS-4343 Quantum Physics II

A formal treatment of quantum mechanics emphasizing Dirac notation and matrix methods. Topics include: three dimensional systems, angular momentum, multiparticle systems, identical particles, spin perturbation theory, scattering, and an introduction to high-energy and particle physics.

Prerequisites: PHYS 3333, 3335.

PHYS-4346 Advanced Modern Physics


Prerequisite: PHYS 3333.

PHYS-4-90 Directed Studies - Senior Level

Individual research under faculty supervision or independent study under faculty supervision in fields not covered by other courses. Credit may vary from 1 to 3 hours. This course may be repeated for additional credit; however, no more than 3 total hours may be counted toward a major in physics.

Prerequisite: consent of the Department Chair.

PHYS-4395 Senior Project

Individual research and scholarly investigation under faculty supervision. Presentation of results at a department seminar is required. Required of all B.S. Physics majors.

Prerequisite: senior standing.

PHYS-4396 Senior Thesis
Continuation of PHYS 4395 including written preparation of a thesis and oral presentation of results at a department seminar. Not required of but highly recommended for B.S. Physics majors.

Prerequisite: PHYS 4395.

**PHYS-4398 Honors Project**

Individual research and scholarly investigation under faculty supervision. Presentation of results at a department seminar is required. Required for honors in physics.

Prerequisite: PHYS 3398.

**PHYS-4399 Honors Thesis**

Continuation of PHYS 4398 including written preparation of a thesis and oral presentation of results at a department seminar. Required for honors in physics.

Prerequisite: PHYS 4398.

Faculty

KWAN HON KELVIN CHENG, Ph.D., Williams Endowed Professor in Interdisciplinary Physics

EUGENE E. CLARK, Ph.D., Professor

DAVID H. HOUGH, Ph.D., Professor; Chair

GORDON M. MacALPINE, Ph.D., Charles A. Zilker Distinguished Professor of Physics

NIRAV P. MEHTA, Ph.D., Assistant Professor

DANIEL R. SPIEGEL, Ph.D., Professor

JENNIFER M. STEELE, Ph.D., Associate Professor

DENNIS W. UGOLINI, Ph.D., Associate Professor
TRINITY UNIVERSITY

Courses of Study 2011 - 2012

Political Science

Requirements

THE MAJOR

The requirements for the degree of Bachelor of Arts with a major in Political Science are as follows:

I. The common curriculum

II. Departmental requirements:

A. Lower division requirements: 9 hours

One course from three of the following fields:

1. American Politics (PLSI 1301)
2. Comparative Politics (PLSI 1331, 1332)
3. International Politics (PLSI 1341, 1342)
4. Political Theory (PLSI 1361)

B. Political Science majors may choose among five separate curricula.

1. General Political Science

   Students who have a general interest in Political Science may choose to major in the discipline without selecting a concentration. Majors who choose this option must meet the following requirements:

   a. Satisfaction of the lower division requirement (9 hours).
   b. Distribution of courses in five subfields: The student is required to take at least one course in each of the discipline's five major fields (American Politics, Comparative Politics, International Politics, Public Law, and Political Theory. Judicial Process can be used to satisfy the Public Law requirement). Lower division courses may be used to satisfy this distribution requirement.
   c. Eight upper division courses (24 hours).

2. Comparative/International Politics

   This concentration is designed for majors who have a primary interest in international relations and/or comparative politics. In addition to preparing students for graduate work in these subfields of the discipline or related disciplines, this concentration is designed for students interested in international affairs.

   a. Satisfaction of the lower division requirement (9 hours).
   b. One upper division course in American Politics or Public Law (3 hours).
   c. One upper division course in Political Theory (3 hours).
   d. Five upper division courses in International Politics or Comparative Politics (15 hours).
   e. One course from the following disciplines outside the Department of Political Science (3 hours):
      - Modern Languages and Literatures: ML&L 3301 and higher.
      - Economics: ECON 2318 (Global Economy) or 3327 (Comparative Economic Systems).
      - History: Any upper division course with a focus on Latin America, sub-Saharan Africa, East Asia, the Middle East, or Europe (to be approved by the adviser).

3. American Politics

   This concentration is designed for students who anticipate graduate studies in American politics or related fields. This concentration is also designed for students interested in political campaigns or public affairs.

   a. Lower division requirements (9 hours).
   b. Distribution of courses in five subfields:

      The student is required to take at least one course in each of the discipline's five major fields (American Politics, Comparative Politics, International Politics, Public Law, and Political Theory. Judicial Process can be used to satisfy the Public Law requirement). Lower division courses may be used to satisfy this distribution requirement.

   c. Five upper division courses in American Politics and/or Constitutional Law (15 hours).
   d. ECON 1311, 1312 (6 hours).
   e. Research Methods in Political Science (PLSI 3372) or a research methods course offered by another department that is approved by the adviser (3 hours).

4. American Politics and Law

   This concentration is designed for students who plan to attend law school. In addition to courses in political science, this concentration requires students to take courses that are designed to help develop analytical skills required for legal studies.
a. Lower division requirements (9 hours).
b. Distribution of courses in five subfields:

The student is required to take at least one course in each of the discipline's five major fields (American Politics, Comparative Politics, International Politics, Public Law, and Political Theory. Judicial Process can be used to satisfy the Public Law requirement). Lower division courses may be used to satisfy this distribution requirement.

c. Five upper division courses in American Politics/Constitutional Law (15 hours).
d. ECON 1311, 1312 (6 hours).
e. One course, approved by the adviser, in each of the following areas (6 hours):

1. Logic, writing, or speech communication
   ENGL 3315 (Advanced Writing for the Professions)
   HCOM 1333 (Public Speaking)
   HCOM 3330 (Argumentation)
   HCOM 3334 (Persuasion)
   PHIL 1341 (Introduction to Logic)
   PHIL 2340 (Symbolic Logic I)

2. A course that views the law from a perspective other than that of Political Science
   BUSN 3302 (Legal Concepts of Business I)
   BUSN 3341 (Legal Concepts of Business II)
   BUSN 3361 (International Business Law)
   COMM 3362 (Media Law and Policy)
   ECON 3339 (Economic Analysis of Law)
   PHIL 3353 (Philosophy of Law)
   SOCI 3350 (Sociology of Law)

5. American Public Policy

This concentration is designed for students who are interested in public policy and policy analysis.

a. Lower division requirements (9 hours).
b. Distribution of courses in five subfields:

The student is required to take at least one course in each of the discipline's five major fields (American Politics, Comparative Politics, International Politics, Public Law, and Political Theory. Judicial Process can be used to satisfy the Public Law requirement). Lower division courses may be used to satisfy this distribution requirement.

c. Five upper division courses in American Politics to include the following: Policy Analysis and the Policymaking Process, the Federal System, Bureaucratic Politics (15 hours).
d. Research Methods in Political Science (PLSI 3372) or a research methods course offered by another department that is approved by the adviser (3 hours).
e. ECON 1311, 1312 (6 hours).
f. Two courses that examine policy making and implementation from the perspective of another discipline (6 hours):

   ECON 3323 (The Economics of Government)
   ECON 3330 (Economics and the Environment)
   ECON 3334 (Urban Economics)
   ECON 3336 (Antitrust Economics)
   ECON 3338 (Government Regulation of Business)
   SOCI 3324 (Crime and Delinquency)
   SOCI 3339 (The Welfare State)

III. Electives sufficient to total 124 semester hours.

GUIDELINES FOR ACCEPTANCE OF MAJORS

1. Completion of two lower division courses with grades of C or better.
2. An overall grade point average of at least 2.0.

THE MINOR

The requirements for the Minor:

A minimum of 18 semester hours of political science. Six hours shall be lower division; the remaining 12 shall be upper division. All courses shall be selected under the supervision of a departmental adviser.

INTERNSHIPS

The department encourages majors and minors to actively pursue internship opportunities that are available locally or through a variety of study abroad or Washington, DC programs. Students are encouraged to pursue such opportunities with or without credit. PLSI 3-97 (Internship in Politics, Administration, and Law) can only be taken Pass/Fail.

COURSES FOR TEACHER CERTIFICATION

The American national government and the Texas government requirements can be met most efficiently through taking PLSI 1303. The American national government requirement alone can be met through PLSI 1301.
PLSI-1301 American Politics
A study of the institutions and processes of American government, with an emphasis on how changing social and economic conditions impact on contemporary structures and functions. This is the basic introductory course in American government. A student may receive credit for only one of the following: 1301 or 1303.

PLSI-1311 Comparing Countries
An introduction to the ideologies, governments, and politics of the world's countries, focusing on the industrialized democracies, the transitional or Communist countries, and the poor countries of the Third World.

PLSI-1331 Film, Literature, and Politics of the Third World
An examination of political issues and challenges facing Third World societies as expressed through literature and film. Relying primarily on the works of Third World artists and writers, the course will explore issues such as the status of women, poverty, the plight of ethnic minorities, and the legacy of colonialism.

PLSI-1341 The Individual in World Politics
An introduction to world politics. How the distribution of power and resources is used by governing elites, technical experts, business and financial agents, social activists, and citizens to shape and operate the several intersecting physical and social systems that constitute the modern world.

PLSI-1342 International Politics
An introductory course to understand interaction among state and non-state actors in international arena. This course reviews international theory and examine important historical and contemporary issues in international relations. Why do states go to war? Under what conditions do states cooperate? Are democratic states more peaceful? This course provides answers to these questions and also examines core concepts on international political economy and international security, such as globalization, weapons of mass destruction proliferation, terrorism, etc.

PLSI-1361 Thinking About Politics
An introduction to some of the most important moral issues persons confront as citizens of a given polity, for instance: When should one (dis)obey a law? Is the community's interest greater than the individual's? Students read selected prominent thinkers who have taken positions on such questions and then formulate their own positions in the context of their own political situation.

UPPER DIVISION

Unless otherwise stated the student shall be expected to have completed six hours of Political Science before enrolling in an upper division course. With permission of the instructor, students can be admitted with only three hours.

AMERICAN POLITICS

PLSI-3301 Political Parties and Interest Groups
An analysis of the development, structure, functions, and activities of political parties and interest groups in the American political system. In addition to an analysis of the interaction of these institutions, attention is given to the role of parties and interest groups in organizing mass political behavior in the electoral and policy making processes.
Prerequisite: PLSI 1301 or 1303 or consent of Instructor.

PLSI-3303 Elections and Campaigns
A study of the recruitment, nomination, and election of public officials in the United States with an emphasis on election theory, the legal framework of elections, campaign strategy and tactics voting behavior, political advertising, and campaign finance.

PLSI-3304 Political Communication
Studies communication aspects of the political processes in a democratic society with an emphasis on contemporary political campaigns; presidential and congressional rhetoric; and less public forms of communication in the policy-making process. (Also listed as HCOM 4350.)
Prerequisites: 6 hours of Political Science or consent of instructor.

PLSI-3305 Legislatures in the United States
An analysis of American legislative institutions with an emphasis on the theories of representation the development of legislative institutions, the structure and organization of legislatures, legislative parties, legislative behavior, executive-legislative relationships, and interest groups.
Prerequisite: PLSI 1301 or consent of instructor.

PLSI-3306 The American Presidency
An examination of the Presidency including recruitment, powers, and responsibilities and its relationship to the other major agencies of state.

PLSI-3313 Policy Analysis and the Policymaking Process

An examination of the basic approaches and models used by policy analysts to explain governmental decision-making and public policy. Course selects contemporary public policy issues to demonstrate the utility of specific approaches including: process theories, group theory, public choice theory, incrementalism, and game theory.
Prerequisite: 1301.

PLSI-3314 Bureaucratic Politics

An examination of public bureaucrats and bureaucracy in the national political environment with an emphasis on the interests and activities of public employees, the role of experts, and the issues of accountability and responsibility.
Prerequisite: PLSI 1301 or consent of instructor.

PLSI-3316 Urban Government and Politics

An introductory course in urban government, politics and public policy. Emphasis is given to the varied forms of urban governments, including special districts and counties; local governments within the framework of the federal system; demographic changes in urban America; election systems; urban electoral politics; issues of community power and decision-making; public finance; and selected public policy issues. (Also listed as URBS 3336.)
Prerequisite: PLSI 1301 or consent of instructor.

PLSI-3329 Special Topics in American Politics

Occasionally courses will be offered on such special topics as Religion and Politics and Presidential Elections. Students are encouraged to bring to the attention of the Department Chair topics they wish to have offered. Students may take this course more than once provided the topics vary.
Prerequisites: 6 hours of Political Science or consent of instructor.

COMPARATIVE POLITICS

PLSI-3330 European Politics

A study of the successes and failures, strengths, and weakness of parliamentary democracy in various European countries. (Also listed as GRST 3370.)
Prerequisites: PLSI 1331 or junior standing or consent of instructor.

PLSI-3331 Political Economy of the U.S., Europe, and Japan

A comparative study of the relationship between the public and private sectors in the three regions with special emphasis on the extent to which government intervenes in the economy. (Also listed as GRST 3371.)
Prerequisite: ECON 1312 or consent of instructor.

PLSI-3333 Latin American Politics

An interdisciplinary survey of government and politics in Latin America, focusing on democratization, authoritarianism, and revolution in several major countries.
Prerequisite: PLSI 1331 or consent of instructor.

PLSI-3334 State, Society, and Change in the Middle East

A comparison of major Middle Eastern political systems, emphasizing the socio-economic and cultural characteristics of selected countries.
Prerequisite: PLSI 1331 or HIST 1351 or junior standing or consent of instructor.

PLSI-3339 Special Topics in Comparative Politics

Occasionally courses will be offered on such special topics as The European Community. Students are encouraged to bring to the attention of the Department Chair topics they wish to have offered. Students may take this course more than once provided the topics are varied.

PLSI-3341 East Asian Security

This course examines core debates and arguments with respect to international security in East Asia. It explores important cases in past and current dynamics in East Asia, such as Chinese hierarchy, Japan's political role in Asia, the Korean Peninsula, growing interactions in Southeast Asia and the U.S foreign policy in East Asia.
Prerequisite: PLSI 1341 or 1342 or 1331 or 1332.
INTERNATIONAL POLITICS

PLSI-3342 International Law
An introductory survey of public international law as practiced by states and international organizations, with an emphasis on jurisdiction, treaties, territory, law of the sea, human rights, economy, wars, and disputes as well as other topics.
Prerequisite: PLSI 1341 or 1342 or consent of instructor.

PLSI-3344 The Middle East and the World
An examination of international relations and major foreign policy issues among the nations of the Middle East and between these nations and the rest of the world.
Prerequisite: PLSI 1341 or 1342 or 1331 or 1332, or HIST 3361 or 3354.

PLSI-3346 The United States and World Order
An examination of US foreign policy and actions in a globalizing world.
Prerequisite: PLSI 1341 or 1342 or consent of instructor.

PLSI-3346 War and Alliance
This course reviews theoretical and empirical studies on the nature of international conflicts and alliance. It explores the causes of war, crisis management, escalation of conflicts and termination of war. The course associates the role of alliance with war and peace by examining core concepts, formation of management of alliance.
Prerequisite: PLSI 1341 or 1342 or junior standing or consent of instructor.

PLSI-3349 Special Topics in International Politics
Occasionally courses will be offered on special topics. Students are encouraged to bring to the attention of the Department Chair topics they wish to have offered. Students may take this course more than once provided the topics are varied.

PLSI-3443 The Politics of Violent Conflict
Explores the nature, genesis, development, conclusion, and impacts of violent conflict through a detailed examination of a single war or a set of similar and/or related conflicts that, individually or together, had a significant impact on world politics.
Prerequisite: PLSI 1341, 1342, or junior standing. Students may take this course more than once provided the topics vary.

PLSI-4341 International Political Economy
An examination of the development and operation of the modern international political economy, with an emphasis on the politics of international investment, finance, trade, and aid.
Prerequisite: PLSI 1341, 1342, or ECON 1312.

PLSI-4342 Energy and the Environment
Concern for the environment as a global system has stimulated efforts to understand the intersection of energy use and environmental quality. What we find in that nexus are environmental, energy, and human development policies permeated by conflicts of values and interests among the many actors involved. This class looks at key problems linking energy use to its environmental and social effects, and encourages the generation of ideas about how actors at all levels from states to corporations to individuals can be held accountable for their actions in this regard.
Prerequisite: junior standing or consent of instructor.

PUBLIC LAW

PLSI-3351 Constitutional Law
Case law analysis and examination of the U.S. Supreme Court's role in defining the evolving nature and scope of national judicial, executive, and legislative authority. Topics addressed the nature of judicial review, separation of powers and foreign policy authority, and the nature of federal and state commerce and taxation power. Additional emphasis on the development of basic legal research skills.

PLSI-3352 Civil Rights and Liberties
Case law analysis and examination of the U.S. Supreme Court's role in defining the meaning of the Bill of Rights as a limitation upon both state and federal power. Topics addressed include discrimination law, freedom of speech and religion and criminal due process. Additional emphasis upon the development of basic legal research skills.

http://web.trinity.edu/x10482.xml?PrintFriendlyPage
PLSI-3354 Judicial Process
Judicial Process examines the functions and roles of courts in the American political and legal universe. Additionally, the legal profession, group litigation strategies, methods of judicial selection, theories of judicial decision-making, judicial philosophy, judicial implementation, and alternative forms of dispute resolution are surveyed.

PLSI-3365 Criminal Justice
Criminal Justice explores the behavior, institutions, and processes of the criminal justice system. We discuss and research many of the timely and controversial issues regarding criminal justice policy. In particular, we examine if extant criminal justice policies are successful in reducing crime rates. Special emphasis is placed on developing critical reasoning, oratory, research, and writing skills.

PLSI-3369 Special Topics in Public Law
Occasionally courses will be offered on special topics. Students are encouraged to bring to the attention of the Department Chair topics they wish to have offered. Students may take this course more than once provided the topics vary.

POLITICAL THEORY

PLSI-3361 Classical Political Thought

PLSI-3362 Modern Political Thought
What are the enduring questions of modern politics? An examination of freedom, authority and democracy through the writings of the great political thinkers of the modern age. Hobbes, Locke, Rousseau, Burke, Marx, Mill, and de Toqueville.
Prerequisite: junior or senior standing or consent of instructor.

PLSI-3363 Masters of Suspicion: Contemporary Political Thought
A study of many of the sharpest thinkers in the 20th century who have been opposed to democracy or pessimistic about its prospects. This course examines some of these thinkers and then takes up the work of other prominent contemporaries who have sought to defend democracy. (Also listed as GRST 3372.)
Prerequisite: junior or senior standing.

PLSI-3369 Special Topics in Political Theory
Occasionally courses will be offered on special topics. Students are encouraged to bring to the attention of the Department Chair topics they wish to have offered. Students may take this course more than once provided the topics vary.

SPECIAL COURSES

PLSI-3-90 Reading and Conference
Individual work under supervision. Varies in credit from one to six credit hours.
Prerequisites: junior standing with 6 hours upper division credit and consent of instructor.

PLSI-3-97 Internship in Politics, Administration, and Law
Students enrolled in PLSI 3-97 will be assigned to various party, governmental or law offices on the basis of individual preferences and the availability of the assignments. The nature of the student's responsibilities will vary with the assignment involved and subject to the approval of the supervising faculty. Must be taken Pass/Fail. Permission from the instructor required.

PLSI-3372 Research Methods in Political Science
An introduction to basic techniques used in contemporary political science with emphasis on research design, data collection and analysis, and the use of the computer in analyzing data. Attention will be given to survey research and survey data, election data, census data, governmental data and statistics, and budget data.

PLSI-4390 Senior Seminar in Political Science
An in-depth study of selected themes in the discipline of political science. Second semester juniors who are studying off-campus in the first semester of their senior year may enroll in this course with the consent of the instructor. Consent of the instructor is required for non-majors.
Faculty

DAVID A. CROCKETT, Ph.D., Professor

L. TUCKER GIBSON, Ph.D., Professor

JOHN R. HERMANN, Ph.D., Associate Professor

KATSUO NISHIKAWA, Ph.D., Assistant Professor

PETER O'BRIEN, Ph.D., Professor

SUSSAN SIAVOSHI, Ph.D., Professor; Chair

MARY ANN TÊTREAULT, Ph.D., Una Chapman Cox Distinguished Professor of International Affairs

HYON JOO YOO, Ph.D., Assistant Professor
Courses of Study 2011 - 2012

Psychology

Overview

The curriculum in psychology reflects both the diversity of its subdisciplines and the universality of their reliance on methodological sophistication. All students who major in psychology are required to take courses that represent the main topical areas within the psychological sciences, plus a year-long methods sequence (preferably in the sophomore year). Through a rigorous advising program, students are encouraged to choose electives to develop their particular interests. Students who intend graduate study are encouraged to choose research experiences, as well as seminars related to their interests.

Requirements

THE MAJOR

The requirements for the degree of Bachelor of Arts with a major in psychology are as follows:

I. The common curriculum

II. Departmental requirements: 38 hours in psychology, including:

A. PSYC 1300 (with a minimum grade of C).
B. PSYC 2401 (with a minimum grade of C) and 2402.
C. One course in each of the following clusters:
   1. Basic physiological and perceptual processes: 2310, 2312, 3311.
   3. Learning, Memory & Cognition: 2312, 2330, 3331, 3333.
D. At least 18 semester hours must be at the upper-division level.
E. Electives sufficient to total 38 hours in psychology (other cluster courses, companion courses, and individual experiences).

III. Electives sufficient to total 124 semester hours.

Majors are encouraged to take courses from other disciplines that can serve to broaden their understanding of specific areas within psychology (e.g., mathematics, biology, computer science, and anthropology/sociology).

THE MINOR

A minor in psychology may be obtained by successful completion of at least 18 semester hours. At least nine of these hours must be at the upper-division level.

Courses

INTRODUCTION AND METHODS

PSYC-1300 Principles of Psychology

An introduction to the major domains of psychological knowledge, informed by biological, cognitive, environmental and motivation perspectives. Emphasizes scientific theory and methods supplemented by applications to everyday experience.
PSYC-2401 Statistics and Methods I
Instruction in measurement processes, descriptive statistics, correlation and inferential reasoning and basic statistical procedures. Students become acquainted with major procedures and issues involved in the framing of psychological research. Instruction includes the use of computer-implemented statistical packages and the method and style of writing about psychological research.

PSYC-2402 Statistics and Methods II
Instruction in additional techniques in inferential reasoning, including analysis of variance, and major nonparametric statistics. All topics are presented within the context of research design and methodology. Related statistical packages for computer-assisted analysis and further instruction in writing are included.
Prerequisite: PSYC 2401 or consent of instructor.

CLUSTER 1: BASIC PHYSIOLOGICAL AND PERCEPTUAL PROCESSES

PSYC-2310 Introduction to Neuroscience
A survey of basic neuroscience, starting with fundamentals of neuronal structures and ending with higher brain functions and their relations to mind and behavior. (Also listed as NEUR 2310.)
Prerequisite: PSYC 1300.

PSYC-2110 Neuroscience Laboratory
The neuroscience laboratory provides students with a hands-on approach to understanding the scientific method through neuroscientific technique and data analysis, including anatomical, electrophysiological and computer simulations. Students will engage in laboratory exercises as well as in solving problem sets. This course is appropriate for both non-science majors and science majors. Spring semester only. (Also listed as NEUR 2110.)
Prerequisite or corequisite: PSYC 2310 or NEUR 2310.

PSYC-3311 Sensation and Perception
Study of sensory and perceptual systems. Emphasis is on the relationship of neurophysiological and cognitive principles. Major focus is on vision (visual neurophysiology, spatial vision, form, color, depth and motion) with some discussion of psychophysical methods, audition, speech perception and the chemical senses. Demonstrations and conducting experiments are part of course.
Prerequisites: PSYC 1300, 2402.

CLUSTER 2: DEVELOPMENT

PSYC-2320 Lifespan Development
Overview of contemporary theoretical and empirical approaches to lifespan development. Biological, social, and psychological dimensions of behavior will be examined from conception and infancy through late life.

PSYC-3321 Cognitive Development
Examination of contemporary theoretical and empirical approaches to cognitive development from birth to adolescence. Major areas of cognition (e.g. perception, categorization, memory, language) are studied from a developmental perspective.
Prerequisite: PSYC 1300.

PSYC-3322 Social Development
Investigation of social development from infancy through adolescence. The course focuses on topics including infant attachment, gender development, the understanding of race/ethnicity, the development of morality, and the influence of peers, parents and the media on social development
Prerequisite: PSYC 1300.

CLUSTER 3: LEARNING, MEMORY & COGNITION

PSYC-2312 Principles of Learning
Major principles of learning, derived from empirical research with a variety of organisms. Historically important and contemporary theories of learning are introduced. Topics also include application to child rearing, education, and psychotherapy and implications for issues concerning freedom and responsibility.
Prerequisite: PSYC 1300.
PSYC-2330 Fundamentals of Cognition
An introduction to the principles of cognitive psychology. Topics include the development of the cognitive paradigm, attention, higher order processes in perception, language, memory, problem-solving and human-computer interaction. Application to other domains in Psychology and disciplines will be discussed.
Prerequisite: PSYC 1300.

PSYC-3331 Memory and Cognition
Examination of the fundamental principles of memory and thought, the experimental evidence to support these principles, and the theoretical perspectives used to understand them.
Prerequisites: PSYC 1300 and 2424 or consent of instructor.

PSYC-3333 Simulation of Neural and Cognitive Processes
The interrelations among the study of the mind, the elaboration of brain mechanism, and studies in artificial intelligence. Discussion of modern computers as a model of brain functioning with emphasis on the question of parallel versus serial processing and contemporary approaches to information processing in the nervous system. Students will gain experience in modeling these processes on computers.
Prerequisites: PSYC 1300 and 2330.

CLUSTER 4: SOCIAL AND INDIVIDUAL DIFFERENCES

PSYC-2341 Social Psychology
Examination of how individuals think, feel, and behave in different social contexts. Explores the basic and applied research on topics such as aggression, attitudes, attribution, prejudice, relationships, self-perception, and social influence.
Prerequisite: PSYC 1300.

PSYC-3340 Psychopathology
Examination of current theory and research findings concerning major psychological disorders. Causes, treatment, and phenomenology of psychopathology are explored, with emphasis on relevant social, intrapsychic, and physiological factors. Includes a critique of approaches to differentiating pathological and adaptive behavior.
Prerequisite: PSYC 1300.

PSYC-3342 Personality and Individual Differences
Examination of the following perspectives on personality process: psychoanalytic, trait, genetic, behavioral, cognitive, and humanistic. Major research methods and issues of each perspective are stressed.
Prerequisites: PSYC 1300 and 2401.

COMPANION COURSES

PSYC-2323 Psychology of Gender
Biological, social, and culture contributions to gender role development. Specific topics to be discussed will include psychological theories of gender role development (biological and social), gender differences in cognition, the neurobiological models of gender differences, masculinity and femininity, representation of masculinity and femininity in literature and the media, gender-based sexuality, peer relationships, and gender-based development of identity and self.

PSYC-3338 Comparative Psychology
An examination of the theories used to interpret animal behaviors such as communication, territoriality, and aggression. Research and observation pertinent to differences among these major theories are stressed.
Prerequisite: PSYC 1300.

PSYC-3351 Clinical Psychology
Exploration of the field of clinical psychology, with a focus on theories and practices of intervention. The major approaches to intervention, including psychodynamic, behavioral, cognitive, humanistic, and systems, are examined. These approaches are critically evaluated with attention to relevant research issues.
Prerequisites: PSYC 1300 and 3340.
PSYC-3353 Psychological Assessment
The history, principles, purposes, and problems of psychological assessment. Recent interest in gender, age and cultural differences is integrated with the examination of major assessment techniques.
Prerequisites: PSYC 1300 and 2401.

PSYC-3355 Behavioral Medicine
Examination of the basic psychological processes that influence health and illness. Specific behaviors, illnesses, and physical conditions such as smoking, obesity, cancer, HIV, and hypertension are explored with a focus on theoretical models and psychological interventions.
Prerequisite: PSYC 3340 or consent of instructor.

PSYC-3360 Special Topics in Psychology
In depth study of theory and research within a particular domain of psychology. May be repeated on different on different topics.
Prerequisite: consent of instructor.

PSYC-3370 History and Systems
Survey of the scientific and philosophical concepts that served as the precursors to contemporary psychology. Emphasis on the historical development of psychological theories in America.
Prerequisite: senior status.

PSYC-4390 Senior Seminar in Psychology
In-depth study of theory and research on a topic that spans subdisciplines within psychology or relates psychology to cross-disciplinary interests.
Prerequisite: senior status with a major in Psychology or consent of instructor.

INDIVIDUAL EXPERIENCE

PSYC-3357 Directed Field Practicum
Field work conducted as part of the academic curriculum. May be repeated once for credit on a different topic. Pass/Fail basis only. (Does not count toward the major.)
Prerequisites: PSYC 3340 and consent of instructor.

PSYC-3-61 Reading and Research
Independent study under supervision; three hours per week per credit is assumed, on average; credit may be taken for 1 or 2 semester hours. This course may be repeated twice.
Prerequisite: consent of instructor.

PSYC-3368 Supervised Research
Independent research using empirical methods. May be repeated once. Nine hours per week will be distributed across research activities, colloquia attendance, and student presentations.
Prerequisites: PSYC 2401.

PSYC-4395 Thesis I
Independent research and scholarly investigation conducted with faculty supervision and culminating (with PSYC 4396) in the preparation of a written thesis.
Prerequisites: PSYC 2401, 2402, and consent of instructor.

PSYC-4396 Thesis II
Completion of research initiated in PSYC 4395 and the presentation of the written thesis according to departmental guidelines.
Prerequisites: PSYC 4395 and consent of instructor.
Faculty

CAROLYN B. BECKER, Ph.D., Professor

JANE B. CHILDERS, Ph.D., Associate Professor

PAULA T. HERTEL, Ph.D., Professor

KEVIN P. McINTYRE, Ph.D., Assistant Professor

GLENN E. MEYER, Ph.D., Professor

KIMBERLEY A. PHILLIPS, Ph.D., Associate Professor

HARRY M. WALLACE, Ph.D., Associate Professor

CHARLES B. WHITE, Ph.D., Professor; Vice President for Information Resources

CAROL Y. YODER, Ph.D., Professor; Chair
Courses of Study 2011 - 2012

Religion

Requirements

THE MAJOR

The requirements for the degree of Bachelor of Arts with a major in religion are as follows:

I. The common curriculum

II. Departmental requirements:

A. 30 semester hours in religion including at least one course from each of the following five groups:

1. The Traditions
   - RELI 3331 (Hindu Tradition)
   - RELI 3332 (Buddhist Tradition)
   - RELI 3341 (Jewish Tradition)
   - RELI 3342 (Christian Tradition)
   - RELI 3343 (Islamic Tradition)

2. Modern and Contemplary
   - RELI 1320 (Ethical Issues in Religious Perspective)
   - RELI 3301 (Gender and Religion)
   - RELI 3312 (Religion and Science in the West)
   - RELI 3318 (Religion and Film)
   - RELI 3346 (Islamic Literatures)
   - RELI 3356 (Digging for the Truth: Archaeology, Bibles, and the Popular Media)
   - RELI 3380 (U.S. Latino Religious Practices and Traditions)
   - RELI 3382 (African American Religions)

3. Textual and Literary
   - RELI 2354 (The Hebrew Bible/Old Testament)
   - RELI 2355 (The New Testament)
   - RELI 2356 (The Qur'an)
   - RELI 3350 (Dead Sea Scrolls)
   - RELI 3353 (The Gospels, Jesus, and Christian Origins)
   - RELI 3354 (The Letters of Paul)
   - RELI 3355 (Non-Canonical Early Christian Literature)

4. Regional
   - RELI 1330 (Asian Religions)
   - RELI 1360 (Religion in the United States)
   - RELI 3313 (Religion and Science in Asia)
   - RELI 3333 (Chinese Religions)
   - RELI 3334 (Japanese Religions)
   - RELI 3381 (Native American Religions)

5. Theoretical
   - RELI 4394 (Approaches to the Study of Religion)

B. At least 15 of the semester hours in religion to be upper-division courses selected in consultation with a faculty adviser in the Department of Religion.

C. A total of no more than 12 semester hours from RELI 3-90 and 3-91 to be counted toward the major without approval of the adviser and the Department.

III. Electives sufficient to total 124 semester hours.

THE MINOR

The requirements for a minor in religion are as follows:

I. 18 semester hours in religion.

II. At least 9 of the semester hours in religion to be upper-division courses selected in consultation with a faculty adviser in the Department of Religion.

III. A total of no more than 6 semester hours from RELI 3-90 and 3-91 to be counted toward the minor without approval of the adviser and the Department.
Courses

LOWER DIVISION COURSES AT THE 1000 LEVEL

Lower division courses at the 1000-level carry no prerequisites.

RELI-1320 Ethical Issues in Religious Perspective
Inquiry into the religious dimension of issues such as environmental pollution, violence, capital punishment, economic injustice, hunger, homosexuality, feminism, pornography, abortion, and euthanasia.

RELI-1330 Asian Religions
A study of Hindu, Buddhist, and East Asian religious traditions in theory and practice; attention to such topics as reincarnation, yoga and meditation, shamanism, ritual, salvation, personal religious experience, gender roles, spiritual ideals of art, and the relation of humankind to nature and the cosmos.

RELI-1340 Islam, Judaism, and Christianity
A comparative study of three interrelated Abrahamic religions. Attention to such topics as founders, scriptures, worship and ritual, mysticism, material culture, identity and gender roles.

RELI-1360 Religion in the United States
A study of religious diversity in the United States with emphasis on the Protestant, Catholic, Jewish and Islamic traditions. Attention may be given to such topics as Native American religion, civil religion, new religious movements, women in religion, and televangelism.

LOWER DIVISION COURSES AT THE 2000 LEVEL

Lower division courses at the 2000 level carry no prerequisites but presuppose of the student either (a) a particular interest in the subject matter of the course, (b) a certain familiarity with the specific subject matter of the course, or (c) a certain familiarity with Religion as an academic discipline.

RELI-2354 The Hebrew Bible/Old Testament
A study of the books of the Old Testament/Hebrew Scriptures in English translation. Some of the books will be read in their entirety, and substantial excerpts of most of the others will also be read so that all of the major types of literature present in the Old Testament/Hebrew Scriptures will be represented. The course will approach its subject matter primarily as literature, but attention will be given to the historical, cultural, and religious aspects of its production. The course will also consider the trajectory of its subject matter in Jewish and Christian thought, and in Western Culture.

RELI-2355 The New Testament
A study of the writings that comprise the New Testament, with attention also to certain other early Christian documents not included in the New Testament. Most of the writings are read in their entirety, and they are examined with reference to their historical, cultural, religious, and literary contexts; their use as historical sources for the reconstruction of Christian origins; their role as a basis for Christian belief and practice; and their wider influence in Western and world cultures.

RELI-2356 The Qur'an
Islam and Muslims have been embroiled in some of the most searing controversies of our age, and the Islamic scripture, the Qur'an, has been at the center of a number of these controversies. This course introduces students to the Qur'an, and how it is perceived by Muslims themselves. Religion 2356 deals with the importance of this sacred text for the religion of Islam, including its beliefs, rituals, and rites. The course also covers the history of the Qur'an and engages with key themes of the scripture. Students will be introduced to the content of the primary text and a selection of accessible secondary readings. Current hot-button questions such as “What does the Qur'an say about women?” or “Does the Qur'an legitimate violence?” will also be addressed.

UPPER DIVISION COURSES AT THE 3000 LEVEL

RELI-3301 Gender and Religion
An examination and discussion of issues relevant to the study of religion and ethics raised by contemporary feminists; offered from the perspective of gender and religion; the roles played by religious traditions in relation to cultural expectations placed upon women and men; implicit and explicit values reflected in religious traditions regarding women; and the diversity of women’s responses to cultural expectations in a religious context.

Prerequisite: 1 course in Religion or consent of instructor.
RELl-3303 Death and Beyond
A comparative study of the perspectives and attitudes within various world religious traditions regarding the significance of death for human existence and self-understanding; attention to contemporary accounts of near-death experiences compared to traditional religious accounts of other world journeys; special emphasis on the concepts of heaven, hell, reincarnation, universal salvation, and divine justice, and the relation of such notions to moral, philosophical, and theological ideals pertaining to life.
Prerequisite: 1 course in Religion or consent of instructor.

RELl-3312 Religion and Science in the West
An examination and discussion of issues in the history of the relation of religion and science in the Western world, with emphasis on developments from the Renaissance to the present. The course focuses on significant religion-science debates, such as those surrounding evolution and the mind/soul/body relation, and on methods and models in religion and science. Attention will be given to ways religion has influenced science, and science religion.
Prerequisite: 1 course in Religion or consent of instructor

RELl-3313 Religion and Science in Asia
An examination and discussion of issues in the history of the relation of religion and science in Chinese, Hindu, and Islamic Cultures. Topics will include cosmology, astronomy, and astrology, on one hand, and biology and traditional systems of medicine on the other. Major theoretical issues will include the colonized discourse on religion and science in the Asian context, the variety of traditional Asian responses to modern science and the impact of cultural perspectives on the scientific enterprise.
Prerequisite: 1 Course in Religion or consent of instructor

RELl-3318 Religion and Film
This course introduces some of the many issues and theoretical perspectives in the study of religion and film. We explore images of religion and religious people in film and trace a number of recurring religious themes in recent popular films. We also examine popular films that do not have explicit religious themes through the lenses of theories of religion, myth, and ritual.
Prerequisite: 1 course in Religion or consent of instructor

RELl-3331 The Hindu Tradition
A study of the major developments and schools within the tradition, from ancient times to the present; attention to mythological/theological perceptions and interpretations of the world, as well as to meditational, devotional, and ritual practices. Field trips and/or interviews are an integral part of the course.
Prerequisite: RELI 1330 or consent of instructor.

RELl-3332 The Buddhist Tradition
An inquiry into the meaning of the Buddha's life, and an examination of his teachings and their expression in the Buddhist community; attention to meditational practices, ritual, ethics, and major religious-philosophical issues within the various schools of South and East Asian Buddhism.
Prerequisite: RELI 1330 or consent of instructor.

RELl-3333 Chinese Religions
A study of the indigenous religious traditions of China in cultural and historical perspective, including Religious Taoism, Confucianism, and Yin-Yang cosmology. Topics for discussion will include cosmology, ritual and myth, religious self-cultivation, and the interaction between humankind and the sacred. Course taught in English. (Also listed as CHIN 3333.)
Prerequisite: RELI 1330 or consent of instructor.

RELl-3334 Japanese Religions
A study of the Japanese religious experience in cultural and historical perspective, including indigenous traditions (Shinto) and Japanese appropriation of religions imported from China and the West. Traditions to be examined include village and state Shinto, Esoteric Buddhism, Zen, and Pure Land sectarianism, Shinto-Buddhist interaction; and new religious movements.
Prerequisite: RELI 1330 or consent of instructor.

RELl-3338 Greek Religious Experience
A study of Greek religious festivals designed to produce a coherent image of a year in the religious life of the ancient Greeks. Through a combination of archaeological and literary evidence, we will attempt to reconstruct the rituals performed at the various festivals and explore the ways in which they organized and articulated the community through shared religious experience. We shall also consider the ways in which religion organized civic space and gave it meaning. (Also listed as CLAS 3338.)

RELl-3341 The Jewish Tradition
A study of the major religious developments and issues within Judaism, as reflected in selected literature drawn from the biblical, rabbinic, medieval, and early modern periods.
Prerequisite: RELI 2354 or consent of instructor
REL-3342 Christian Tradition

A study of historical development of Christian doctrine and practice as reflected in selected scriptures, creeds, and theological works from the early church to modern times. Attention to Catholicism, Orthodoxy, and Protestantism.

Prerequisite: REL 2355 or consent of instructor.

REL-3343 The Islamic Tradition

An examination of Islam as a diverse, living tradition practiced by hundreds of millions of people around the world. Will include discussion of the foundations of Islamic religion and of issues such as women and Islam, the jihad, and Islamic fundamentalism.

Prerequisite: REL 2356 or consent of instructor.

REL-3346 Islamic Literatures

The course will examine a range of literary writings from the early and modern Islamic worlds with a view to gaining insights into the prevailing themes of these literary works and their relevance for understanding the historically changing interconnections between self, society, and religion. Students will read an array of literary genres from two broad successive epochs of Islamic history: the Age of Empires (9th to late 18th centuries, C.E.) and the Post-Colonial Age (19th to 21st Centuries, C.E.). The course also lays stress upon exposure to the cultural and regional diversity of Islamic civilization, and hence, students will be exposed to literary works in translation from the Arabic, Persian, Turkish, and Urdu languages.

Prerequisite: REL 2356 or consent of instructor.

REL-3350 The Dead Sea Scrolls

In 1947 hundreds of ancient scrolls - including biblical texts and sectarian documents - were discovered in caves overlooking the Dead Sea. In this course we will examine the scrolls in an effort to learn more about the world of Second Temple Judaism, the history of the biblical texts, and the lifestyle and religious ideas of a small sectarian community; studying the scrolls will also provide a context for the emergence of rabbinic Judaism and early Christianity. In addition to learning about the scrolls and their contents, this course will also look at the archaeological remains of the ancient village of Qumran, where the scrolls were found.

Prerequisite: REL 2354 or consent of instructor.

REL-3353 The Gospels, Jesus, and Christian Origins

A study of the earliest extant literary portrayals of Jesus, with attention to what can be known about his life, message, activity, and fate as well as his significance for the origins of Christianity.

Prerequisite: REL 2355 or consent of instructor.

REL-3354 The Letters of Paul

A study of the extant writings attributed to Paul and included in the New Testament, with attention to the historical, cultural, religious, and literary context of these writings and to Paul's influence in early Christianity and in the history of Christian thought.

Prerequisite: REL 2355 or consent of instructor.

REL-3355 Non-Canonical Early Christian Literature

This course examines the wide range of early Christian experience by examining a number of Christian writings from the first few centuries of the movement. We will focus on non-canonical early Christian literature, the social and historical contexts of a number of expressions of Christianity as well as the process of the formation of the early Christian canon.

Prerequisites: REL 2354, REL 2355, or consent of instructor.

REL-3356 Digging for the Truth: Archaeology, Bibles, and Popular Media

This course explores the intersection of archaeology, the bibles, and popular media. More specifically, it explores how the popular media uses archaeology and the bibles to create history, and how their process differs from an academic approach. Some questions that will be addressed include: What is archaeology and how is it done? What can archaeology teach us? What can't archaeology teach us? What role should the biblical literature play in writing history? How does popular media's use of archaeology and the bibles differ from the historian's use of archaeology and the bibles? What kinds of motives - political, economic and religious - factor into the equation?

Prerequisite: REL 2354, REL 2355, or consent of instructor.

REL-3360 Philosophy of Religion

A critical discussion of philosophical issues arising in religion and theology. Typical topics covered include: religious language, arguments for God's existence, religious experience, miracles and revelation, the relationship of faith and reason, the nature of God, the problem of evil, death and immortality. (Also listed as PHIL 3338.)

Prerequisite: PHIL 1301 or 1 course in Religion.

REL-3370 Sociology of Religion

A study of institutionalized and non-institutionalized forms of religious expression. Various forms of religious expression, their social sources, and their societal consequences will be examined. The relation between religion and secular institutions (the economy, politics, education, etc.) will be investigated. Particular attention will be focused on emerging forms of religious expression in modern urban-industrialized society. (Also listed as SOCI 3333.)

Prerequisite: 3 hours in Sociology.
RELl-3380 United State Latino Religious Practices And Traditions

This course examines the beliefs, theologies, and practices of diverse U.S. Latino communities. In addition to Catholicism and Protestantism, the course will review the impact of African and Native American religious traditions. The course critically examines how U.S. Latino religious experiences impact race, class, gender, and sexuality with a particular emphasis on examining the Latino community in San Antonio.

Prerequisite: RELI 1360 or consent of instructor.

RELl-3381 Native American Religions

This course is an overview of Native American religious traditions in the United States. Topics covered may include Native revitalization movements, traditional Pueblo and Sioux dances, Native Christianity, modern Native religious thought, Peyote religion, issues of gender in Native American religion, boarding schools and Americanization, the role of white Christian missionaries, and the modern Native American evangelical movement.

Prerequisite: RELI 1360 or HIST 1360 or consent of instructor.

RELl-3382 African Religions In the Americas

This course will focus on the African religious traditions that developed into new expressions of faith in the United States, Caribbean, and Latin America. In this course we will cover a variety of religious traditions, including African-American Christianity, Santeria, Candomblé, Vodou, Rastafarianism, Islam, and folk practices such as the “conjuring” tradition. This course will also explore the role of gender within African/African-American traditions and issues of religion and social change such as the Civil Rights movement and Liberation Theology.

Prerequisite: RELI 1360 or consent of instructor.

RELI-3-90 Reading and Conference

Individual work under supervision in areas not covered by other courses.

Prerequisites: 12 hours in religion and approval of the department chair and instructor.

RELI-3-91 Special Topics In Religion

From time to time, the department will offer special topic courses not described in the Bulletin. The topics may be in any area and may be offered at the initiative of departmental faculty or upon petition of interested students. Announcements of such courses will be by special prospectus. May be repeated on different topics.

Prerequisite: consent of instructor.

UPPER DIVISION COURSES AT THE 4000 LEVEL

Junior standing and completion of 9 semester hours in the academic study of Religion or consent of instructor is prerequisite to taking 4000-level courses.

RELl-4394 Approaches to Studies of Religion

An inquiry into the nature of religion and ways in which it is studied and described; topics may include self and other within religious traditions religious pluralism, comparative studies of religion, sociological and psychological functions of religion, and the relation between religion and culture.

Prerequisite: 3 courses in Religion. This course is normally taken in the Junior or Senior year.

Faculty

C. MACKENZIE BROWN, Ph.D., Jennie Farris Railey King Professor of Religion

RUBÉN R. DUPERTUIS, Ph.D., Assistant Professor

RUQAYYA Y. KHAN, Ph.D. Associate Professor

RANDALL L. NADEAU, Ph.D., Professor; Chair

SARAH K. PINNOCK, Ph.D., Associate Professor

CHAD SPIGEL, Ph.D., Assistant Professor
Courses of Study 2011 - 2012

Scientific Computing

Overview

Scientific Computing is a multi-disciplinary program designed for science majors who wish to explore the application of computing within the natural sciences. It is intended primarily for students majoring in one of the natural sciences or engineering. The program of study brings together courses from Computer Science, Mathematics, and disciplines in the natural sciences. Each student takes the required core courses in computer science and calculus. After the core, two advanced-level courses selected from five options further hone quantitative skills needed for scientific computing. Students should work with their advisers to identify courses that are most appropriate for their backgrounds and goals. Finally, students bring their computation skills to their major by selecting one upper-level course from a list of approved disciplinary courses that make use of computation. Concurrent with this course, students enroll in SCOM 3199 - Scientific Computing Project. Note: These disciplinary courses have several prerequisites that are not listed among the requirements for a minor in Scientific Computing - students majoring in a discipline among the natural sciences will have already fulfilled these prerequisites as part of their major.

Students interested in a Scientific Computing minor will submit an application to the chair of the Committee, who will assign a faculty adviser to the student. Completion of this program will be indicated on the student's transcript with the notation "Minor in Scientific Computing."

Requirements

A minor in Scientific Computing will consist of a total of 19 to 20 semester hours, depending on the upper-level course selected in the major. The minor must include at least nine hours of upper-division courses in mathematics or science. The requirements for a minor in Scientific Computing are as follows:

The Core (9 hours)

Computation

CSCI 1320 (Principles of Algorithm Design I)
CSCI 2323 (Scientific Computing)

Calculus

MATH 1307 (Calculus A)
OR
MATH 1311 (Calculus I)

Advanced Quantitative Skills (6 hours)

Take two of the following five courses:

CSCI 3352 (Simulation Theory)
MATH 3311 (Probabilistic Models in Life Sciences)
MATH 3320 (Probability and Statistics for Engineers and Scientists)
MATH 3328 (Mathematical Models in Life Sciences)
MATH 3338 (Mathematical Modeling)

Disciplinary Practice (4-5 hours depending on the chosen elective)

SCOM 3199 (Scientific Computing Project)
[Must be taken in conjunction with one of the courses listed below.]

And one of the following courses:

BIOL 3420 (Animal Behavior)
BIOL 3434 (Ecology)
BIOL 3454 (Molecular Biology)
CHEM 3334 (Physical Chemistry) (includes lab CHEM 3135)
MATH 4394* (Senior Project)
PHYS 3321 (Statistical Physics and Thermodynamics)
PHYS 3322 (Classical Mechanics and Nonlinear Dynamics)
PHYS 3325 (Optical Physics)
PHYS 3336 (Advanced Theoretical Physics)
PHYS 4343 (Quantum Physics II)
Courses

SCOM-3199 Scientific Computing Project

The course involves undertaking a project that expands one of the laboratory or classroom exercises to make significant use of computers as a research tool. Students must work with a faculty mentor to develop an appropriate project (usually the instructor in the course).

Co-requisite: concurrent enrollment in one of the disciplinary practice courses approved for Section C of the requirements for this minor.

Faculty

FARZAN AMINIAN, Ph.D., Professor, Engineering Science

SABER ELAYDI, Ph.D., Professor, Mathematics; Chair

JULIO ROBERTO HASFURA-BUENAGA, Ph.D., Associate Professor, Mathematics

MARK LEWIS, Ph.D., Associate Professor, Computer Science

KEVIN D. LIVINGSTONE, Ph.D., Associate Professor, Biology

NATASA MACURA, Ph.D., Associate Professor, Mathematics

DAVID O. RIBBLE, Ph.D., Professor, Biology

DENNIS W. UGOLINI, Ph.D., Associate Professor, Physics and Astronomy

ADAM URBACH, Ph.D., Assistant Professor, Chemistry
Courses of Study 2011 - 2012

Sociology and Anthropology

Requirements

THE MAJOR
The requirements for the degree of Bachelor of Arts with a major in sociology or anthropology are as follows:

I. The common curriculum

II. Departmental requirements:

A. The Sociology major consists of 30 semester hours to be taken as follows:
   1. At least one of the following courses: SOCI 1301, 1316, 2306, 2311, or 2312.
   2. Required courses: SOCI 3359 and 4361.
   3. At least one of the following courses: SOCI 3360, 3361, or 3365.
   4. At least 21 hours must be in upperdivision courses.

B. The Anthropology major consists of 30 semester hours to be taken as follows:
   1. At least one of the following courses: ANTH 1301, 1305, or 2310.
   2. Required courses: ANTH 2301, 3359, and 4361.
   3. At least one of the following courses: ANTH 3360, 3361, or 3365.
   4. One additional course in Archaeology of Physical Anthropology, and one additional course in Social Anthropology (see department for course list).
   5. At least 21 hours must be in upperdivision courses chosen in consultation with the adviser.

III. Electives sufficient to total 124 semester hours.

THE MINOR
Two minors are offered in the Department of Sociology and Anthropology. The department requirements:

A. The Sociology minor consists of 18 semester hours to be taken as follows:
   1. Completion of at least one of the following courses: SOCI 1301, 1316, 2306, 2311, 2312, or 2314.
   2. At least 12 hours must be in upperdivision courses.

B. The Anthropology minor consists of 18 semester hours to be taken as follows:
   1. Completion of at least two of the following courses: ANTH 1301, 1305, or 2310.
   2. At least 12 hours must be in upperdivision courses.

Students in one of the two disciplines who choose to double major in the other may have no more than nine hours of overlap between the two disciplines.

Courses

SOCIOLOGY COURSES

LOWER DIVISION (NO PREREQUISITES)

SOCI-1301 Introduction to Sociology
A study of the nature of human society. Special attention will be given to the nature of culture, social organization, personality development, institutions and social stratification.

SOCI-1310 The Urban Experience
An introduction to the city, its origins, contemporary form, and likely future. The course will present the city and urban phenomena in both the American context and other national environments. The major emphasis will be placed on understanding the physical, social, economic and political systems that create and sustain urban areas. (Also listed as URBS 1310.)

SOCI-1316 People and Places in Global Context
A study of the complex ways in which modern social organization materializes geographically. Topics include the distribution and movement of human populations, characteristics and distribution of cultural mosaics, patterns of economic interdependence, and the forces of cooperation and conflict among peoples from both global and local perspectives. (Also listed as URBS 1316.)

SOCI-2306 Introduction to Social Psychology
This course examines the effects of culture and social structure upon the thoughts, emotions, identities, and behaviors of individuals-how the individual exists within society and how society exists within the individual. Topics include how language and stereotypes shape perception, prejudice, how birth order and family dynamics shape personality,
television's impacts upon sexuality and aggression, the historical evolution of individualism, urban psychology, and how group dynamics influence the success of sports teams and the creativity of think tanks.

SOCI-2311 Sociology of Sex Roles
An analysis of social, psychological, and physiological approaches to the development of sex identity and sex roles. Differential socialization methods from infancy through adolescence will be examined along with the impact on both men and women of contemporary changes in sex roles.

SOCI-2312 Sociology of Marriage and the Family Experience
An examination of the various structures and functions of the family as the basic social institution of society. Special attention will be given to conflict and change as it has occurred in modern industrial America resulting in a diversification of family types and mores.

SOCI-2314 Social Problems and Human Values
A documented and critical analysis of major social problems in the United States, in a global as well as national context. This course aims at providing an understanding of the structure of society and of the underlying causes and conditions that maintain social problems. Special attention will be given to how we think about social problems: the social definitions of problems, the role of ideologies, the role of mass media, and the impact of these social processes on social policy formation. Students will explore their personal values in response to social issues in such areas as health, work, children's welfare, and the environment.

SOCI-2323 Deviance: Social and Personal
An analysis of the current theoretical perspectives on deviant behavior and an examination of deviance in the context of the social-political conditions of contemporary society. Selected empirical studies will be used to examine specific problems, theory, and societal definitions and responses to deviance.

SOCI-2328 Social Inequality
A study of the stratification of American society in terms of the unequal distribution of wealth, status and power. Theories on the origin and development of social classes as well as of the functional necessity of social inequality will be examined along with empirical works dealing with inequality. (Also listed as URBS 2328.)

SOCI-2332 Sociology of Health and Illness
A study of the social and cultural definitions of health and illness, social patterns of morbidity and mortality, social and environmental sources of illness, social roles of the "sick," the nature of the illness experience, and the structure of health professions and the societal institutions that deal with health and illness. (Also listed as URBS 2332.)

UPPER DIVISION

(Any one lower-division course satisfies the prerequisite for upper-division courses unless otherwise noted.)

SOCI-3159 Social Research Skills Workshop
A hands-on workshop integrating new research methods with emerging scientific software. Attention will be given to the analysis of qualitative, quantitative and spatial data using computer software, along with developing research skills in interviewing, survey collection, and creating databases. Must be taken concurrently with SOCI 3359. (Also listed as ANTH 3159.)

SOCI-3313 Social Movements
This course is an introduction to the theory and research on social movements with a focus on contemporary American movements. The sociological study of social movements emphasizes how political, organizational, and cultural factors shape social movement emergence and development. Movements studied in this class may include the women's movements, gay/lesbian activism, environmental movement, the civil rights movement, and disability activism.

SOCI-3324 Crime and Delinquency
An examination of the causes, treatment, and prevention of delinquent and criminal behavior; including political, corporate, and governmental criminal behavior.

SOCI-3325 Drugs and Society
A sociological overview of policies regarding and use of a range of licit and illicit drugs, examining drugs over time and across social groups with a focus on the importance of politics, culture, power, and economics. Sociological theories will be introduced to explain the conceptualization of drug use and abuse.

SOCI-3327 Contemporary Minorities
A study of minority-dominant intergroup relations with an emphasis on historical, cultural, and power differentials. Emphasis will be on inequality and inter-group conflict with particular attention given to the recent political activism of some minorities and the implications for social change. (Also listed as ANTH 3327.)

SOCI-3329 Sexuality and Society
An investigation of the social construction and regulation of sexuality across cultures and through time. This perspective on sexuality looks at social, rather than biological or personal, explanations for how human sexuality is practiced. Specific topics may include queer studies, queer communities and HIV/AIDS in society. (Also listed as ANTH 3329.)

SOCI-3330 Sociolinguistics
An introduction to linguistic theories of change. Emphasis on linguistic analysis of languages in change. (Also listed as ANTH 3330.)

SOCI-3331 Language, Culture, and Society
Student will analyze the functions of language in everyday life in various cultures, including the role of language in the social production and reproduction of power relations, stratification, gender roles, the formation of racial and ethnic identities, and in the process of social change. (Also listed as ANTH 3331.)

**SOCl-3333 Sociology of Religion**
A study of institutionalized and non-institutionalized forms of religious expression. Various forms of religious expression, their social sources, and their societal consequences will be examined. The relation between religion and secular institutions (the economy, polity, education, etc.) will be investigated. Particular attention will be focused on emerging forms of religious expression in modern, urban-industrialized society. (Also listed as RELI 3370.)

**SOCl-3337 Organizations: Private, Public, and Popular**
Business, government, and social movement organizations in their historic, economic, and political contexts; how organizational structures constrain individuals, and how individuals reform, subvert, and/or rebel against those structures. Applying theories to our own organizational environments (present and future), we will focus on characteristics of organizations and the interrelationships of organizational actors.

**SOCl-3338 Work and Professions**
This course analyzes the social structure of people's work in the context of the global economy. Topics include the relation between work and stratification (e.g., by social class, age, gender, race and ethnicity), worker socialization and networks, occupational health and illness, unemployment, underemployment and retirement, the formal organizational contexts of work, the process of professionalization credentialing, and de-skilling, the impact of social and technological changes on the nature of work and the workplace. One special focus will be on women's work, including comparisons between industrialized and non-industrialized economies and various economic systems. Students will also examine the nature of work in the San Antonio and South Texas economy.

**SOCl-3339 The Welfare State**
This course systematically focuses on the complex organizations comprising and spawned by the welfare state. The general purpose of the course is two-fold. First, the historical, demographic, economic, and political macrosystems of welfare state evolution are addressed. Second, the complex interrelationships between the broader social environment, organizations that comprise the welfare state, and individuals, are utilized to illustrate the linkages among them.
Prerequisite: SOCI 1301 or consent of instructor.

**SOCl-3340 Urban Geography**
This course examines the history and contemporary processes of urbanization, primarily in the NorthAmerican context. In particular, we are concerned with the geography of these processes, resulting in differentiation of space and the creation of distinct places. We will examine the geography of urbanization at several scales, ranging from the development of the North American urban system to the experiences of neighborhoods within cities. (Also listed as URBS 3340.)
Prerequisite: SOCI 1316.

**SOCl-3343 Relaciones fronterizas Mexico-Estados Unidos (bilingüe)**
In this seminar we will examine a variety of social, cultural, political, and economic phenomena that characterize the Mexico-US border region. Includes an optional overnight excursion to communities located on the international boundary itself. This course is part of the Spanish across the Curriculum component of Trinity University's International Studies Program. It is conducted bilingually in Spanish and English, i.e., in both languages of the Mexico-U.S. border region. Competence in speaking, reading, writing and listening in both Spanish and English is a requirement for participation in the course. (Also listed as ANTH 3343 and INTL 3343.)
Prerequisites: SPAN 2302 or equivalent Spanish competence and consent of instructor.

**SOCl-3346 Childhood and Youth**
Social factors surrounding childhood, and children's perceptions of social life, reveal a great deal about society in general. The purpose of this course is to provide a sociological framework for understanding the roles of childhood and youth in society. The framework will involve understanding historical, cross-cultural, economic, and political considerations of childhood and young adulthood. Using comparative and historical methods, we will examine the changing social status of children. Various social institutions (such as families, education, and the media) will be studied. Finally, we will study how contemporary American children and young adults fare, and why this is so.
Prerequisite: SOCI 1301 or consent of instructor.

**SOCl-3347 The Aging Revolution**
With an estimated 20 percent of everyone who has reached the age of 65 being now alive, it is not surprising that the United Nations proclaimed 1999 to be the International Year of Older Persons. Contemporary generations, particularly those in developing nations, are among the first in history to be raised with the expectation of old age, forerunners of a longevity evolution that will be felt for centuries to come. Using the theoretical and methodological tools of the social sciences, this course investigates both the personal and social ramifications of the great demographic event, developing the interrelationships between the biological, psychological, social, and cultural aspects of old age.

**SOCl-3348 Death and Dying**
A critical overview of the social and cultural sources of humanity's outlooks and practices toward dying and the dead. Beginning with historical and cross-cultural analyses of death systems, the course proceeds to develop sociologically the roles of religion, philosophy, psychology, science, politics and medicine in shaping orientations toward war, abortion, suicide, environmental destruction, organ transplants, euthanasia, Uneary ritual and capital punishment. It concludes with analyses of the experiences of those who die and those who survive. (Also listed as SOCI 3346.)

**SOCl-3350 Sociology of Law**
The content and form of legal systems provide a framework for the examination of two key sociological concepts: social organization and social control. This course will focus on sociological theories of law as developed by Durkheim, Weber, and Marx. The course will also examine modern perspectives with a focus on sociological jurisprudence and criminal law. Course materials will be supplemented with an examination of current issues in the development and application of law.

**SOCl-3351 Sociology of Knowledge**
A study of the social structural factors which influence the nature and development of knowledge systems. The reciprocal relation between the social structure and various elements of knowledge (ideology, ideologies, science, and technology, for instance) will constitute a major focal point of the course. Ideology and science as social products will be important topics of study. The contributions of Marx, Durkheim, Mannheim, Scheler, Merton, Berger, and Luckmann, among others, will be considered.

**SOCl-3359 Social Research Design**
An introduction to the basic research techniques used in the social sciences with an emphasis on research design, data collection and analysis. This course will include an overview of common methods within the social sciences, including ethnography, qualitative interviews, focus groups, historical comparative methods, experiments, and survey methods. SOCI 3159 or ANTH 3159 must be taken concurrently. (Also listed as ANTH 3359.)

**SOCI-3360 Research Methods: Applied Social Statistics**

This course provides a hands-on approach for learning how to undertake quantitative social research focused on the design and completion of a semester-long research project. A variety of statistical tools are addressed, including descriptive statistics, tests of significance, and linear regression and correlation. The course goals emphasize writing and rewriting, learning how to formulate and test research hypotheses, and understanding how to present results in an accurate and effective manner. (Also listed as ANTH 3360 and URBS 3360.)

Prerequisite: ANTH 3359 or SOCI 3359 or consent of instructor.

**SOCI-3361 Research Methods: Fieldwork**

This course provides a hands-on approach for learning how to undertake qualitative research through fieldwork, focused on the design and completion of a semester-long research project. The course goals emphasize survey and interview techniques, writing and rewriting, and understanding how to present results in an accurate and effective manner. (Also listed as ANTH 3361.)

Prerequisite: ANTH 3359 or SOCI 3359 or consent of instructor.

**SOCI-3365 Research Methods: GIS**

This course provides a hands-on approach for learning how to undertake spatial social research focused on the design and completion of a semester-long research project. Spatial tools introduced emphasize geographic information systems. The course goals include map making and the integration of information technology and cartography. (Also listed as ANTH 3365 and URBS 3365.)

Prerequisite: SOCI 3359 or ANTH 3359.

**SOCI-4352 Mind, Body, and Society: Seminar**

This course examines the nature of mind, body and society, and the intimate dialectical relationship among them. Individual minds make human society possible, while the emergence of the individual mind or consciousness occurs through social processes. Human minds and social being exist in the framework of a material basis. Special attention is given to how to evaluate theories and how theoretical paradigms are linked to empirical research. (Also listed as ANTH 4361.)

Prerequisite: junior standing and at least two of the following courses: SOCI 2311, 2323, 3327, 3332, 4361, ANTH 3327, 3361, 3367, 4361, WAGS 2310.

**SOCI-4361 Social Theory**

A critical survey of the foremost paradigms in contemporary sociological and anthropological theory. The course emphasizes the historical intellectual location of major theoretical traditions, especially the works of Durkheim, Marx and Weber. Contemporary schools of thought include functionalism, cultural ecology, conflict and rational choice theories, symbolic interactionism and dramaturgical analysis, phenomenology and ethnomethodology, structuralism, feminist theories, world systems analysis and structuration theory. For each, special attention is given to how to evaluate theories and how theoretical paradigms are linked to empirical research. (Also listed as ANTH 4361.)

Prerequisite: five Sociology courses or consent of instructor.

**SOCI-4362 Globalization and International Development**

Advanced seminar studying the relationship between economic development and social change at the international level. Examines the rise of capitalism as a global mode of production and its impact on local cultures in the contemporary period. Special attention paid to the rise of transnational communities and grassroots movements for social justice. (Also listed as SOCI 4362.)

Prerequisites: junior standing and completion of at least one lower-division Sociology course or ANTH 1301 or ANTH 2357.

**SOCI-3-91 Special Topics in Sociology**

Occasional courses will be offered on current events or desired topics that students bring to the attention of the Department Chair. A student may repeat this course if the topics are different. A maximum of nine semester hours can be taken in SOCI 3-91 or 3-94.

**SOCI-3-94 Seminar**

Topics will vary as necessitated by student interest. A student may repeat the course if the topics are different. A maximum of nine hours can be taken in SOCI 3-91 or 3-94.

**SOCI-4394 Seminar**

Topics will vary as necessitated by student interest. A student may repeat the course if the topics are different for a maximum of nine semester hours.

Courses arranged on an independent study basis with the guidance and consent of the instructor.

**SOCI-3-71, 4-71 Sociology Internship**

Field work experience in a setting arranged and approved by the student, professor and agency selected. Supervision and guidance must be provided in the field and contact with the professor must be maintained. A student may repeat the course for a maximum of six semester hours. This course is taken Pass/Fail.

**SOCI-3-90 Sociology Independent Study**

Individual research in selected areas. A student may repeat the course for a maximum of six semester hours. A project proposal must be submitted to and approved by the professor supervising the research prior to registration.

Prerequisite: consent of instructor.

**SOCI-4395 Senior Thesis**
Students will produce a written thesis on a topic of their choice during the course of one semester. The Sociology faculty will consider and review theses nominated by the advising instructor. Students must have their thesis proposal approved by the Sociology faculty in the semester prior to registering for the course.

Prerequisites: permission of advising instructor and senior standing.

ANTHROPOLOGY COURSES

LOWER DIVISION (NO PREREQUISITES)

ANTH-1301 Introduction to Anthropology
Variation in human thought and behavior is viewed in diverse cultural settings. The anthropological perspective on sociocultural processes at work in contemporary societies is presented.

ANTH-1303 Japanese Perspectives
This course introduces the student to Japanese culture in its religious, political, aesthetic and social dimensions especially as each is affected by Western influences. (Also listed as GNED 1303 and ML&L 1303.)

ANTH-1304 Introduction to Classical Archaeology
An introduction to the history of archaeological activity in the Mediterranean, and archaeological theory and field techniques. Course will also examine major sites and monuments of ancient Greece and Rome. (Also listed as CLAS 1304.)

ANTH-1305 Introduction to Prehistoric Archaeology
Introduction to the methods and theories of prehistoric archaeology and the study of the origin and development of culture beginning with the earliest evidence and including the rise of complex societies known as civilizations in the Old and New Worlds.

ANTH-1309 Pirates, Merchants, and Marines: Seafaring in the Ancient Mediterranean
This course explores how human relations with the sea affected the social, economic, military, political, and technological aspects of life in the ancient Mediterranean littoral. Evidence includes hulls and cargoes of shipwrecks, harbor works, inscriptions, graffiti, wall paintings and mosaics, literary texts, and gravestones. A central focus will be an introduction to the methodology and technologies of archaeology, but the subject matter of this course and the nature of the discipline of maritime archaeology incorporate methodologies and substance also from the fields of Anthropology, Ethnography, Physical Sciences, Engineering, Art History, History, and Geography. (Also listed as CLAS 1309.)

ANTH-1381 Music Cultures of the World
This course explores the music of various cultures around the world. Using the case study approach, students will learn about the music and sociology of selected regions that may include West Africa, Asia, India, and the American Southwest. Students will undertake fieldwork in San Antonio to gain practical experience in ethnomusicological fieldwork. This is an introductory course appropriate for non-majors as well as music students. No prior musical experience is required, but students without musical backgrounds must learn a vocabulary of terms for describing musical sound. (Also listed as MUSC 1381.)

ANTH-2301 The Anthropological Imagination
This course provides potential anthropology majors a comprehensive understanding of anthropology as an academic discipline, focusing on anthropologists and what they do. Rather than read a text or abstract debates, the class studies specific anthropologists and the classic ethnographies they wrote, looking at how each work was shaped by the particular life and time of the author. Classic studies will be chosen from each of the major periods in anthropology's history: from functionalism and structuralism to more recent work in Marxist, feminist, and interpretive anthropology.

ANTH-2310 Human Evolution
Human evolution studied through fossil and archaeological evidence; description and explanation of modern human biological variation; and the study of non-human primates in order to develop perspectives on the human capacity for culture.

ANTH-2357 Humans and the Environment
The seminar will analyze humans' relationship with the natural environment. It will first focus on cultural adaptation to natural resources, with case studies drawn from African foragers, South American gardeners, and Asian farmers. The course will also analyze the effects of contemporary development, focusing on the destruction of the rainforest. The class will try to create new models for development from indigenous peoples' use of tropical resources.

UPPER DIVISION

(ANTH 1301, 1305, 2301, or 2310 is a prerequisite for all upper-division courses unless special permission is granted)

ANTH-3120 La historia cultural del baile latinoamericano (The Cultural History of Latin American Dance)
An examination of the cultural influences on contemporary Latin American dance, including dances of European, African or mestizo origin, such as the cumbia, samba, tango, waltz, criollo, polka, salsas, merengue, and vallenato, as well as indigenous dances such as the cueca, huayno, diablada, and morenada. This course will be taught entirely in Spanish and will include demonstrations of the several dance steps.
Prerequisite: SPAN 2302 or the equivalent.

ANTH-3159 Social Research Skills Workshop
A hands-on workshop integrating new research methods with emerging social scientific software. Attention will be given to the analysis of qualitative, quantitative and spatial data using computer software, along with developing research skills in interviewing, survey collection, and creating databases. Must be taken concurrently with ANTH 3359. (Also listed as SOCI 3159.)
ANTH-3327 Contemporary Minorities
A study of minority-dominant intergroup relations with an emphasis on historical, cultural, and power differentials. Emphasis will be on inequality and inter-group conflict with particular attention given to the recent political activism of some minorities and the implications for social change. (Also listed as SOCI 3327.)

ANTH-3328 Sexuality and Society
An investigation of the social construction and regulation of sexuality across cultures and through time. This perspective on sexuality looks at social, rather than biological or personal, explanations for how human sexuality is practiced. Specific topics may include queer studies, queer communities and HIV/AIDS in society. (Also listed as SOCI 3329.)

ANTH-3330 Sociolinguistics
An introduction to linguistic theories of change. Emphasis on linguistic analysis of languages in change. (Also listed as SOCI 3330.)

ANTH-3331 Language, Culture, and Society
Students will analyze the functions of language in everyday life in various cultural settings, including the role of language in the social production and reproduction of power relations, stratification, gender roles, the formation of racial and ethnic identities, and the processes of social change. (Also listed as SOCI 3331.)

ANTH-3332 Intercultural Communication
Examines theory, research, and application of communication in an intercultural context with an emphasis on verbal and nonverbal language variables, world view, acculturation, diffusion of innovation, and training for foreign assignments. (Also listed as HCOM 3372.)

ANTH-3343 Relaciones Fronterizas Mexico - Estados Unidos (bilingüe)
In this seminar we will examine a variety of social, cultural, political, and economic phenomena that characterize the Mexico-United States border region. Includes an optional overnight excursion to communities located on the international boundary itself. This course is part of Spanish across the Curriculum component of Trinity University’s International Studies Program. It is conducted bilingually in Spanish and English, i.e. in both languages of the Mexico-U.S. border region. Competence in speaking, reading, writing, and listening in both Spanish and English is a requirement for participation in the course. (Also listed as INTL 3343 and SOCI 3343.)

Prerequisites: SPAN 2302 or equivalent Spanish competence and consent of instructor.

ANTH-3348 Death and Dying
A critical overview of the social and cultural sources of humanity's outlooks and practices toward dying and the dead. Beginning with historical and cross-cultural analyses of death systems, the course proceeds to develop sociologically the roles of religion, philosophy, psychology, science, politics and medicine in shaping orientations toward war, abortion, suicide, environmental destruction, organ transplants, euthanasia, funeral ritual and capital punishment. It concludes with analyses of the experiences of those who die and those who survive. (Also listed as SOCI 3348.)

ANTH-3351 The Archaeology of Ancient Mexico and Peru
Intensive study of cultural evolution in Mesoamerica and Peru with special emphasis on complex societies such as the Toltec, Aztec, and the Inca. The Spanish conquest and its effects on native societies will also be examined using both archaeological and historical sources.

ANTH-3356 Seminar on the Ancient Maya
This course surveys the culture of ancient Maya, including material culture, as well as mythology, calendrics, art and writing. It will cover several ancient Maya sites in depth, as well as the contact period and the contemporary Maya.

ANTH-3357 Pre-Columbian Art of Mesoamerica
This course is a survey of the art of Mesoamerica and will examine the art of the Olmec, Western Mexico, Gulf Coast, Teotihuacan, Maya, Toltecs, Zapotecs, Mixtecs, and the Aztecs. Art mediums will include architecture, sculpture, ceramics and other portable art, murals, ancient manuscripts such as codices, jewelry, and even graffiti. Students will have an opportunity to work with materials on and off-exhibit in the Pre-Columbian Art Program. It is conducted bilingually in Spanish across the Curriculum component of Trinity University’s International Studies Program. It is conducted bilingually in Spanish across the Curriculum component of Trinity University’s International Studies Program. (Also listed as ARTH 3335.)

ANTH-3358 The Anthropology of International Relations
An examination of the processes of culture contact among the peoples of Europe, Africa, Asia and the New World, and its effect on the distribution of wealth, power and status in the modern world system. Topics to be covered include colonialism, nationalism, and cultural revitalization with special emphasis on Africa and Latin America.

ANTH-3359 Social Research Design
An introduction to the basic research techniques used in the social sciences with an emphasis on research design, data collection and analysis. This course will include an overview of common methods within the social sciences, including ethnography, qualitative interviews, secondary data analysis, content analysis, and survey methods. ANTH 3159 must be taken concurrently. (Also listed as SOCI 3359.)

ANTH-3360 Research Methods: Applied Social Statistics
This course provides a hands-on approach for learning how to undertake quantitative social research focused on the design and completion of a semester-long research project. A variety of statistical tools are addressed, including descriptive statistics, tests of significance, and linear regression and correlation. The course goals emphasize writing and rewriting, learning how to formulate and test research hypotheses, and understanding how to present results in an accurate and effective manner. (Also listed as SOCI 3360 and URBS 3360.)

Prerequisite: ANTH 3369 or SOCI 3359 or consent of instructor.

ANTH-3361 Research Methods: Fieldwork
This course provides a hands-on approach for learning how to undertake qualitative research through fieldwork, focused on the design and completion of a semester-long research project. The course goals emphasize survey and interview techniques, writing and rewriting, and understanding how to present results in an accurate and effective manner. (Also listed as SOCI 3361.)
Prerequisite: ANTH 3359 or SOCI 3359 or consent of instructor.

ANTH-3362 Food and Culture
Students will examine the social context of food in which it is produced, distributed, and consumed among different cultures and in the contemporary global political economy. Topics include the cultural context of food choice, the political economy of world hunger, corporate challenges to food self-sufficiency, and food and nutritional politics in the contemporary United States.

ANTH-3363 Water, Culture, and Power
Students will analyze the impact of water resource development on peoples, the varied cultural meanings of water and water resources, as well as the political process of funding and building water resource projects. Tensions between culture and power will be analyzed as they structure perceptions and experiences of water scarcity, transforming water from a natural resource into a social construction.

ANTH-3365 Research Methods: GIS
This course provides a hands-on approach for learning how to undertake spatial social research focused on the design and completion of a semester-long research project. Spatial tools introduced emphasize geographic information systems. The course goals include map making and the integration of information technology and cartography. (Also listed as SOCI 3365 and URBS 3365.)

ANTH-3367 South American Indigenous Peoples: Conquest and Development
The impact of colonialism and development on tropical forest and Andean Indian societies in South America with emphasis on the influence of native social and cultural systems in these groups' relations with national states and international economies.

ANTH-3368 Anthropological Ethics
This course will analyze ethical case studies and their ramifications in socio-cultural anthropology, physical anthropology and archeology. Case studies will range from historical incidents that shaped the ethics of current anthropology, as well as ethical dilemmas of practitioners in the field today.

ANTH-3464 Morality in the Marketplace
The course explores rationality and morality in economic relations from a cross-cultural perspective. Lectures and readings will draw on neoclassical, Marxist and cultural ecological models and case studies in Southeast Asia and Latin America. In addition to analyzing tribal and peasant economies, this course will study theories of global economic development. In addition to 3 credit hours of lecture and discussion, this course will include a 1 credit hour tutorial in anthropological research and writing.

ANTH-3466 Anthropological Forensics
This course is a broad overview of anthropological forensics, and will include laboratory projects in which students catalogue human remains, determining age, sex, ancestry and stature of a laboratory collection of human bones. Specific attention is paid to forensics and human rights, forensic case studies, and techniques such as forensic entomology and dental odontology. Students should be prepared for a strenuous work load, including extensive readings, oral presentations, a major research paper, laboratory reports, and a significant amount of independent lab work. Meets 4 hours per week.
Prerequisite: ANTH 2310 or consent of instructor.

ANTH-3-91 Anthropology Special Topics
Occasional courses will be offered on current events or desired topics that students bring to the attention of the Department Chair. A student may repeat this course if the topics are different. A maximum of nine semester hours can be taken in 3-91 and 3394.

ANTH-4352 Mind, Body, and Society: Seminar
This course examines the nature of mind, body and society, and the intimate dialectical relationship among them. Individual minds make human society possible, while the emergence of the individual mind or consciousness occurs through social processes. Human minds and social being exist in the framework of a material body, which profoundly influences social behavior and individual experience. (Also listed as SOCI 4352.) Prerequisite: junior standing and at least two of the following courses: SOCI 2311, 2323, 3327, 3332, 4361, ANTH 3327, 3364, 3367, 4361, WAVS 2310.

ANTH-4354 Seminar on Primatology
Advanced study of human evolution, ecological conservaton, and culture and behavior by investigation of humans' closest living relatives, the non-human primates. Includes completion of a research project involving primate observation and original data collection about primate behavior.
Prerequisite: ANTH 2310.

ANTH-4361 Social Theory
A critical survey of the foremost paradigms in contemporary sociological and anthropological theory. The course emphasizes the historical intellectual location of major theoretical traditions, especially the works of Durkheim, Marx and Weber. Contemporary schools of thought include functionalism, cultural ecology, conflict and rational choice theories, symbiotic interactionism and dramaturgical analysis, phenomenology and ethnomet hodology, structurallsm, feminist theories, world systems analysis, and structuration theory. For each, special attention is given to how to evaluate theories and how theoretical paradigms are linked to empirical research. (Also listed as SOCI 4361.)
Prerequisite: Five Sociology (Anthropology) courses or consent of instructor.

ANTH-4362 Globalization and International Development
Advanced seminar studying the relationship between economic development and social change at the international level. Examines the rise of capitalism as a global mode of production and its impact on local cultures in the contemporary period. Special attention paid to the rise of transnational communities and grassroots movements for social justice. (Also listed as SOCI 4362.)
Prerequisites: junior standing and completion of at least one lower-division Sociology course or ANTH 1301 or ANTH 2357.

ANTH-3394, 4394 Seminar
Topics will vary as necessitated by student interest. A student may repeat the course if the topics are different for a maximum of nine semester hours.

**ANTH-3-71, 4-71 Anthropology Internship**

Field work experience in a setting arranged and approved by the student, professor, and agency selected. Supervision and guidance must be provided in the field and contact with the professor must be maintained. A student may repeat the course for a maximum of six semester hours. This course is taken Pass/Fail.

Prerequisite: consent of instructor.

**ANTH-3-72, 4-72 Archaeological Practicum**

Participation in an approved excavation in the Mediterranean world, Western Europe, or the Near East. Student will be expected to receive instruction in excavation techniques and in the recording and study of the site and the material. Two weeks' work will normally be counted as equivalent to 1 credit, up to a maximum of 3 credits. (Also listed as CLAS 4-72.)

Prerequisite: consent of instructor.

**ANTH-3-73 Archaeological Fieldwork**

Field work experience in a setting arranged and approved by the student, professor, and agency selected. Supervision and guidance must be provided in the field.

Prerequisite: consent of instructor.

**ANTH-3-90 Anthropology Independent Study**

Individual research in selected areas. A student may repeat the course for a maximum of six semester hours. A project proposal must be submitted to and approved by the professor supervising the research prior to registration.

Prerequisite: consent of instructor.

**ANTH-4395 Senior Thesis**

Students will produce a written thesis on a topic of their choice during the course of one semester. The Anthropology faculty will consider and review theses considered outstanding by the advising instructor. Students must have their thesis proposal approved by the Anthropology faculty in the semester prior to registering for the course.

Prerequisites: permission of advising instructor and senior standing.

Faculty

CHRISTINE DRENNON, Ph.D., Associate Professor

CYNTHIA S. GENTRY, Ph.D., Associate Professor

MICHAEL C. KEARL, Ph.D., Professor

MEREDITH B. McGUIRE, Ph.D., Professor

JENNIFER P. MATHEWS, Ph.D., Professor

ALFRED MONTOYA, Ph.D., Assistant Professor

TAHIR H. NAQVI, Ph.D., Assistant Professor

RICHARD K REED, Ph.D., Professor; Chair

DAVID SPENER, Ph.D., Professor

AMY L. STONE, Ph.D., Assistant Professor

SHERYL R. TYNES, Ph.D., Professor; Associate Vice President for Academic Affairs
Courses of Study 2011 - 2012

Sport Management

Requirements

THE MINOR

The minor in Sport Management is an interdisciplinary program that studies various aspects of administering a sports organization or program, including: legal issues, sociological concerns, and a variety of management functions. Students contemplating graduate school in Sport Management or a career in athletic management would be well suited for this program.

Completion of the program will be indicated on the student's transcript with the notation, "Minor in Sport Management."

Students interested in the minor should contact the Chair of the Committee.

The requirement for the minor in Sports Management is the completion of 24 semester hours as follows (15 of which must be upper division):

A. Required courses:
   - MGMT 2301 (Management of Organizations)
   - SPMT 1312 (Sport In Society)
   - SPMT 3306 (Sport Management)
   - SPMT 3309 (Legal Issues in Sport)

B. Six hours in elective Sport Management courses (to include no more than three hours in SPMT 3-90):
   - COMM 3357 (Sport Media) (also listed as SPMT 3317)
   - PHED 1106 (Sport Officiating Laboratory)* (also listed as SPMT 1106)
   - PHED 1165 (Intramural Programming) (also listed as SPMT 1165)
   - SPMT 1106 (Sport Officiating Laboratory)* (also listed as PHED 1106)
   - SPMT 1165 (Intramural Programming) (also listed as PHED 1165)
   - SPMT 1306 (Sport Officiating)
   - SPMT 3312 (Ethics in Sport Management)
   - SPMT 3314 (History of American Sport)*
   - SPMT 3315 (Financial Aspects of Sport Management)*
   - SPMT 3316 (Leadership for Sport Professionals)
   - SPMT 3317 (Sport Media) (also listed as COMM 3357)
   - SPMT 3-90 (Directed Study in Sport Management)
   - SPMT 4301 (Organizational Theory in Sport Management)**
   - SPMT 4302 (Seminar in Contemporary American Sport)**

C. Six elective hours from the following courses:

   Communication and Marketing
   - COMM 3360 (Principles of Public Relations)*
   - COMM 3361 (Principles of Advertising)*
   - HCOM 1333 (Public Speaking)
   - MKTG 3381 (Public Relations)*
   - MKTG 3382 (Promotion Management)*

   Finance
   - ACCT 1302 (Fundamentals of Managerial Accounting)*
   - FNCE 3301 (Financial Administration of Business Firms)*
   - FNCE 4351 (Financial Management and Policy)*

   Management
   - BUSN 3311 (Organizational Communication) (also listed as HCOM 3382)
   - ECON 3329 (Labor Economics and Labor Relations)* (also listed as ECON 3329)
   - HCOM 3360 (Small Group Communication)
   - HCOM 3362 (Organizational Communication) (also listed as BUSN 3311)
   - MGMT 3311 (Labor Economics and Labor Relations)* (also listed as MGMT 3311)
   - MGMT 3371 (Human Resource Management)
   - MGMT 3372 (Organizational Behavior)*

*This course has at least one prerequisite. See the course description for details.
Courses

SPMT-1106 Sport Officiating Laboratory
This laboratory is designed to provide students an opportunity for practical implementation of the practices and skills learned in SPMT 1306. (Also listed as PHED 1106.)
Prerequisite: SPMT 1306 or consent of instructor.

SPMT-1165 Intramural Programming
In this course, students will plan and participate in new recreational opportunities. Students will create an event and teach their classmates the rules, regulations, and policies for that particular sport or recreational activity and then participate in that event as a group. (Also listed as PHED 1165.)

SPMT-1306 Sport Officiating
The purpose of this class is to provide students a meaningful educational experience of both a practical and theoretical nature in the area of sports officiating.

SPMT-1312 Sport in Society
A study of contemporary issues in sport and the impact sport has on society. Topics that will be critically analyzed include children and sport, sport and education, gender and racial issues, and deviance in sports.

SPMT-1314 Athletic Facility and Event Management
This course explores the basic concepts pertaining to the planning, organizing, and conducting of sporting events, both amateur and professional. Additionally, the course will address the planning, development, and maintenance of sport and leisure facilities.

SPMT-3306 Sport Management
Studies the foundation and application of sport management as it applies to athletics, business, and physical education. Includes organizational theory, leadership, sport law, ethical concerns, budgeting, and marketing.
Prerequisite: MGMT 2301.

SPMT-3309 Legal Issues in Sport
This course provides an understanding of the legal system, its terminology, and legal principles applied to professional and amateur sports. Emphasis is on identifying and analyzing legal issues affecting the sports environment, such as contracts, tort law, regulation of sports agents, labor management relations, civil rights legislation, including Title IX, discrimination issues, and antitrust arbitration decisions.

SPMT-3312 Ethics in Sport Management
This course will focus on the exploration of contemporary values, issues, and controversies associated with sport and sport management. It is designed to provide students with a fundamental, theoretical and practical knowledge of various ethical issues that may arise in sport. Students will become familiar with ethical decision-making methods and potential solutions to ethical issues they may encounter as sport professionals. Ethical concepts and issues will be examined through lectures, class discussions, presentations and group assignments.
Prerequisite: SPMT 3309.

SPMT-3314 History of American Sport
This course explores the historical evolution of American sports from colonization to globalization. The course examines sport experiences in colonial America, the antebellum health reform movement, sport and social changes during the progressive era, and the rise of modern sport. Emphasis will be given to the place of sport in the university and the development of the National Collegiate Athletic Association.
Prerequisite: PHED 1312.

SPMT-3315 Financial Aspects of Sport Management
An analysis of financial and economic aspects of professional and collegiate sports. This course will cover such issues as forms of ownership, formulation, and development of operating budgets, financial forecasting, taxation, revenue production, risk, economic impact studies, financial planning for sports organizations and professional athletes, and the economic impact of unions in professional sports.
Prerequisites: ACCT 1302 and SPMT 3308.

SPMT-3316 Leadership for Sport Professionals
This course explores the development of personal leadership skills for athletic directors, coaches, managers, and others in the sport industry. An emphasis will be placed upon the relationship between goal development and organizational culture as each relates to key approaches, models, and theories in the leadership field.

SPMT-3317 Sport Media
This course will critically examine the relationship between sport media issues such as race, gender, sexuality, nationalism, capitalism/consumerism, violence, and civic life. Ethical implications and the impact of social media will also be explored. (Also listed as COMM 3357.)
SPMT-330 Directed Study in Sport Management
Independent study or research, or advanced selected topics in sport management that are not covered in other classes. Variations in credit according to the work performed, from 1 - 3 hours. Class may be repeated once, provided the topic varies.
Prerequisite: consent of instructor.

SPMT-4301 Organizational Theory in Sport Management
Designed for those students who desire to study Sports Management in graduate school. The course examines the structure and design of sport organizations. Special emphasis will be placed on organizational decision making, power, and culture. Additionally, students will be introduced to research methods used in sport management and required to develop a small scale research or assessment project.
Prerequisite: PHED 1312, 3308, and consent of instructor.

SPMT-4302 Seminar in Contemporary American Sport
Discussion-oriented course focusing on the connection between sports, culture, and selected contemporary American institutions. Using theoretical frameworks such as cultural hegemony, social capital, and new institutionalism, students will explore the place of sports in educational institutions, the intersection of sports and politics, the symbiotic relationship between sport and media, and the economic realities of modern sport.
Prerequisite: SPMT 3314 or consent of instructor.

Faculty
CAROLYN BECKER, Ph.D., Professor, Psychology
JENNIFER J. HENDERSON, Ph.D., Associate Professor, Communication
RITA D. KOSNIK, Ph.D., Professor, Business Administration
DAVID W. LESCH, Ph.D., Professor, History
JOHN M. McGrath, Ph.D., Associate Professor, Human Communication and Theatre
JACOB TINGLE, M.A.A., Instructor, Business Administration; Chair
DARRYL G. WALDRON, Ph.D., Professor, Business Administration
Courses of Study 2011 - 2012

Urban Studies

Overview

Urban Studies is an interdisciplinary field that focuses on the global phenomenon of urbanization. The program incorporates a wide variety of disciplinary approaches to the study of urbanization and urban processes. Students may choose an Urban Studies major to explore the city from a diversity of perspectives, or to prepare for a career in one of the many fields that touch on urban life. Urban Studies majors have extensive interaction with the city in research, class projects, and internships.

Requirements

THE MAJOR

The requirements for the degree of Bachelor of Arts with a major in Urban Studies are as follows:

i. The common curriculum

ii. Specific degree requirements (34 semester hours total):

A. The Core Curriculum (6 semester hours)

URBS/SOCI 1310 (The Urban Experience)
URBS 3370 (Applied Urban Studies)

B. Methods Requirement (3 semester hours):

All urban studies majors must take one "methods" class from the following list. With the approval of their advisers, students will choose the course most appropriate to their own interests in the field.

BUSB 2301/ECON 2320 (Statistics for Management and Economics)
URBS/SOCI 3365 (Research Methods: GIS)
URBS/SOCI 3360 (Research Methods: Social Statistics)
SOCI 3353 (Research Methods: Fieldwork)
HIST 3381 (Historians and Their Craft)
GEOS 3308 (GIS and Remote Sensing)

C. Concentration Requirement (15 semester hours):

Students must complete 15 semester hours from one of the following concentrations:

The Urban Design concentration prepares students for graduate programs in urban planning, architecture and landscape architecture, and for careers in planning, building, and design.

The Urban Environment concentration is intended for students seeking an interdisciplinary approach to the environmental issues that arise in urban areas. It leads to graduate programs in environmental studies and public policy, and to careers in environmental analysis and policy.

The Urban Issues and Policy concentration prepares students for graduate programs in public policy, social work, and many of the social sciences, and for careers in non-profit organizations, education, government, and consulting.

The Urban Management concentration is intended for students who wish to pursue graduate study in public administration and careers in city governance and management.

Concentration Lists:

Urban Design:

Two of

ARTH 3352 (19th Century Architecture and Urbanism)
ARTH 3354 (Mexico City)
ARTH 3364 (20th Century Architecture and Urbanism)
ARTH 3365 (Contemporary Architecture)
GEOS 1304 (Environmental Geology)

Three of

ECON/URBS 3340 (Economics and the Environment)
ECON/URBS 3334 (Urban Economics)
HIST 3362/URBS 3300 (The City in History)
SOCI/URBS 3340 (Urban Geography)

Urban Environment:

Two of

ECON 3323 (The Economics of Government)
ECON/URBS 3330 (Economics and the Environment)
PLSI 3313 (Policy Analysis and the Policymaking Process)
Two of

BIOL 3434 (Ecology)
ENVI 4394 (Environmental Studies Capstone Experience)
GEOS 1304 (Environmental Geology)
GEOS 2304 (Earth Surfaces Processes)

One of

ANTH 2357 (Humans and the Environment)
CMLT 2301 (World Literature and the Environment)
HIST 3382/URBS 3305 (The City in History)
HIST 4390 (Environmental History)

Urban Issues and Policy:

Two of

HCAD 3350 (The U.S. Healthcare System)
SOCI 2314 (Social Problems and Human Values)
SOCI 3324 (Crime and Delinquency)
SOCI/URBS 3340 (Urban Geography)

Two of

ECON 3323 (The Economics of Government)
ECON/URBS 3330 (Economics and the Environment)
ECON/URBS 3334 (Urban Economics)
PLSI 3313 (Policy Analysis and Policymaking)
PLSI 3316/URBS 3336 (Comparative Urban Governance)

The fifth course may be chosen from either list.

Urban Management:

ACCT 1301 (Financial Accounting)
ACCT 1302 (Managerial Accounting)
MGMT 2301 (Management of Organizations)

One of

ECON/URBS 3334 (Urban Economics)
PLSI 3316/URBS 3336 (Comparative Urban Governance)

One of

FNCE 3301 (Financial Administration of Business Firms)
HCAD 3383 (Management of Health Care Organizations)
MGMT 3371 (Human Resources Management)

D. Elective Requirement (6 semester hours):

In addition to the concentration requirements, urban studies majors must complete an additional 6 hours of courses chosen from any of the concentration or methods lists, or from the additional courses listed below.

ANTH 1312 (Art and Architecture of Latin America since the 16th Century)
FNCE 3351 (Financial Institutions and Markets)
GEOS 3411 (Hydrology)
HCOM 3350 (Rhetorical Criticism)
PLSI 3314 (Bureaucratic Politics)
SOCI/URBS 1316 (Places and Regions in Global Context)
SOCI/URBS 2323 (Social Inequality)
SOCI/ANTH 3327 (Contemporary Minorities)
SOCI/URBS 2322 (Sociology of Health and Illness)
SOCI 3337 (Organizations: Private, Public and Popular)
SOCI 3339 (The Welfare State)
URBS 3-88 (Urban Studies Internship)
URBS 3-89 (Urban Studies Practicum)
URBS 3-90 (Independent Study)
URBS 4391 (Special Topics in Urban Studies)

A GIS course is strongly recommended for those intending to pursue graduate studies. Alternative courses may be substituted for the courses on the concentration, methods, and elective lists with the consent of the adviser.

E. Distribution Requirement:

No more than 12 of the hours used to satisfy the major requirements (including cross-listed courses) may come from any one department. No more than 12 credit hours may be from lower-division courses.

F. The Senior Experience (4 semester hours)

URBS 4494 (Senior Seminar)

III. Electives sufficient to total 124 semester hours.

THE MINOR

Students may complete a minor in Urban Studies by meeting the following requirements:

I. Completion of 18 semester hours of Urban Studies courses, including:

A. URBS/SOCI 1310 (The Urban Experience)
B. Urban Studies electives (15 semester hours) chosen from the Concentration, Methods, and Electives lists above.
C. Additional Requirements:

1. At least 9 hours of the total must be in upper-division courses.
2. No more than 12 of the hours used to satisfy the minor requirements (including cross-listed courses) may come from any one department.
3. At least 9 hours of the total must come from URBS courses (including cross-listed courses).
4. No more than 3 hours of URBS 3-88/3-89 may be used to meet the minor requirements.
Courses

URBS-1310 The Urban Experience
An introduction to the city, its origins, contemporary form, and likely future. The course will present the city and urban phenomena in both the American context and other national environments. The major emphasis will be placed on understanding the physical, social, economic, and political systems which create and sustain urban areas.

URBS-1316 People and Places in Global Context
A study of the complex ways in which modern social organization materializes geographically. Topics include the distribution and movement of human populations, characteristics and distribution of cultural mosaics, patterns of economic interdependence, and the forces of cooperation and conflict among peoples from both global and local perspectives. (Also listed as SOCI 1316.)

URBS-2328 Social Inequality
A study of the stratification of American society in terms of the unequal distribution of wealth, status and power. Theories on the origin and development of social classes as well as the functional necessity of social inequality will be examined along with empirical works dealing with inequality. (Also listed as URBS 2328.)

URBS-2332 Sociology of Health and Illness
A study of the social and cultural definitions of health and illness, social patterns of morbidity and mortality, social and environmental sources of illness, social roles of the "sick," the nature of the illness experience, and the structure of health professions and the societal institutions that deal with health and illness. (Also listed as SOCI 2332.)

URBS-3305 The City in History
Cross-cultural examination of urban life in the pre-industrial and industrial cities of Asia, Europe and the Americas from a historical perspective with special emphasis on the U.S. urban experience. Lecture and discussion format. (Also listed as HIST 3382.)

URBS-3330 Economics and the Environment
The economic problem of coping with a finite environment. Study of the interrelationships among economic growth, environmental quality, urban concentration and resource constraints. Economic analysis of pollution control and other environmental policy problems. (Also listed as ECON 3330.)
Prerequisite: ECON 1311.

URBS-3334 Urban Economics
Analytical study of the reasons for cities to exist, the location of economic activity, the economic base of urban areas and the functioning of urban land markets. Economic analysis of selected urban policy issues such as local economic development, zoning and growth controls, housing, transportation, poverty, crime, and the provision of local public services. Attention is paid to the urban experience outside as well as within the U.S. (Also listed as ECON 3334.)
Prerequisites: ECON 1311, and three hours of upper-division credit in either Economics or Urban Studies.

URBS-3338 Urban Government and Politics
An introductory course in urban government, politics and public policy. Emphasis is given to the varied forms of urban governments, including special districts and counties; local governments within the framework of the federal system; demographic changes in urban America; election systems; urban electoral politics; issues of community power and decision-making; public finance; and selected public policy issues. (Also listed as URBS 3338.)
Prerequisite: PLSI 1301 or consent of instructor.

URBS-3340 Urban Geography
This course examines the history and contemporary processes of urbanization, primarily in the North American context. In particular, we are concerned with the geography of these processes, resulting in differentiation of space and the creation of distinct places. We will examine the geography of urbanization at several scales, ranging from development of the North American urban system to the experiences of neighborhoods within cities. (Also listed as SOCI 3340.)
Prerequisite: URBS 1316.

URBS-3360 Research Methods: Applied Social Statistics
This course provides hands-on approach for learning how to undertake quantitative social research focused on the design and completion of a semester long research project. A variety of statistical tools are addressed, including descriptive statistics, tests of significance, and linear regression and correlation. The course goals emphasize writing and rewriting, learning how to formulate and test research hypotheses, and understanding how to present results in an accurate and effective manner. (Also listed as SOCI 3360 and ANTH 3360.)
Prerequisite: ANTH or SOCI 3359 or consent of instructor.

URBS-3365 Research Methods: GIS
This course provides a hands-on approach for learning how to undertake spatial social research focused on the design and completion of a semester long research project. Spatial tools introduced emphasize geographic information systems. The course goals include map making and the integration of information technology and cartography. (Also listed as SOCI/ANTH 3365.)

URBS-3370 Applied Urban Studies
This course combines the academic study of Urban Studies with a service learning component; classroom work will be integrated with off-campus internships.
Prerequisites: URBS 1310 and Urban Studies Major, or consent of instructor.
URBS-3-88 Urban Studies Internship
Field-work experience in a setting approved by the student, professor, and the organization selected. Supervision and guidance will be provided by the host organization and the professor. The course must be taken on a graded basis.
Prerequisite: consent of instructor.

URBS-3-89 Urban Studies Practicum
Field-work experience in a setting approved by the student, professor, and the organization selected. Supervision and guidance will be provided by the host organization and the professor. This course must be taken on a Pass/Fail basis. Prerequisite: consent of instructor.

URBS-3-90 Independent Study
Independent study in selected areas. 1 to 6 hours.
Prerequisites: 6 advanced hours in Urban Studies or consent of instructor.

URBS-4391 Special Topics in Urban Studies
Announcement of each course will be by prospectus. May be repeated when topics vary.

URBS-4494 Senior Seminar
The Senior Seminar in Urban Studies is the capstone experience for the Urban Studies Major. It serves as a synthesis course for the wide variety of courses taken in this interdisciplinary program. In it, students undertake either a traditional research project, or community-based research project, for which they are responsible for primary data collection, analysis, and presentation. Projects are true synthesis of the various discipline perspectives of the city and urban issues.

Faculty

RICHARD V. BUTLER, Ph.D., Professor, Economics

CHRISTINE DRENNON, Ph.D., Associate Professor, Sociology and Anthropology; Director

L. TUCKER GIBSON, Ph.D., Professor, Political Science

ANDREW HANSEN, Ph.D., Associate Professor, Human Communication and Theatre

KATHRYN O’ROURKE, Ph.D., Assistant Professor, Art and Art History

EUGENIO D. SUAREZ, Ph.D., Associate Professor, Business Administration

SHERYL R. TYNES, Ph.D., Professor, Sociology and Anthropology; Associate Vice President for Academic Affairs
Courses of Study 2011 - 2012

Women's and Gender Studies

Overview

The minor in Women's and Gender Studies is an interdisciplinary program that explores the cultural construction of gender and sexuality from a variety of academic perspectives. Classes investigate gender in relation to such topics as race and class, women's history and power; men's studies; and queer studies and theory.

Students interested in declaring a Women's and Gender Studies minor should contact the Chair of the Women's and Gender Studies Committee.

Requirements

THE MINOR

The requirements for a minor in Women's and Gender Studies are as follows:

I. 19 semester hours consisting of at least one core course and courses from at least two of the categories listed under Supporting Courses: Humanities, Social Sciences, and Natural Sciences. Students may take up to three hours of Women's and Gender Studies Colloquia.

II. No more than 6 hours can overlap with a student's primary major.

III. No more than 6 hours can be taken from a single department listed below under Supporting Courses.

IV. At least 9 hours must be upper-division courses.

WAGS 3122 (Women's and Gender Studies Internship) is strongly recommended for all WAGS minors.

CORE COURSES

WAGS 2310 (Introduction to Women's Studies)
WAGS 2350 (Introduction to Feminist Theory)
WAGS 2351 (Introduction to Queer Studies)
WAGS 2352 (Introduction to Gender Studies)

SUPPORTING COURSES

Humanities

ARTH 3341 (Early Renaissance Art in Italy)
ARTH 3351 (Nineteenth-Century Art: Romanticism and Impressionism (c. 1800-1900))
ARTH 3392 (Women's Studies in Art History)
CHIN 3312 (Chinese Cinema: A Historical and Cultural Perspective)
CLAS 1307 (Gender and Identity in the Ancient World) (also listed as HIST 1311)
CLAS 3303 (Greek and Roman Drama) (also listed as DRAM 3325 and ENGL 3322)
CLAS 3304 (The Ancient Romance and Novel)
COMM 3325 (Special Topics in Communication Media: Women Journalists in Film)
COMM 3326 (Special Topics in Communication Media: Queer Theory and Mass Media)
ENGL 3322 (Greeks and Roman Drama) (also listed as CLAS 3303 and THTR 3325)
ENGL 3327 (Contemporary Literature)
ENGL 3337 (Literary Theory)
ENGL 3366 (19th-Century British Fiction: The Marriage Market and the Money Market)
ENGL 3371 (Studies in American Literature: American Women Writers of the Nineteenth Century)
ENGL 3375 (Postmodern Literature)
ENGL 4320 (Studies in Early Modern British Literature: Shakespeare's Sonnets and the Subject of Sexuality)
ENGL 4320 (Studies in Early Modern British Literature: The Performance of Gender, Wyatt to Shakespeare)
ENGL 4322 (Studies in 19th-Century British Literature: Aesthete to Decadent: Literature of the 1890s)
ENGL 4323 (Studies in American Literature: The Harlem Renaissance)
ENGL 4323 (Studies in American Literature: Literature and Culture on the Latino/a Borderlands)
ENGL 4323 (Studies in American Literature: Sentimentalism: Nineteenth Century Literature and American Femininity)
ENGL 4323 (Studies in American Literature: The New Woman)
ENGL 4323 (Studies in American Literature: Queering the Nineteenth Century)
ENGL 4325 (Seminars in Literary Periods: The Woman Question in Victorian England)
ENGL 4325 (Seminars in Literary Periods: Modernism and Women)
ENGL 4326 (Seminars on Individual Authors: George Eliot and Virginia Woolf)
ENGL 4326 (Seminars on Individual Authors: Jane Austen)
ENGL 4326 (Seminars on Individual Authors: Virginia Woolf)
GERM 4301 (Genre Studies in German Literature: Gender in the German Novella)
GERM 4310 (Seminar in German Literature: Frauenliteratur)
GERM 4310 (Seminar in German Literature: Women and War)
HIST 1311 (Gender and Identity in the Ancient World) (also listed as CLAS 1307)
HIST 3300 (Gender Matters in African History)
HIST 3332 (Culture and Society in Early Modern Europe)
HIST 3363 (Early American Social History)
HIST 4400 (Seminar in African History: Life Histories of African Women)
HCOM 4391 (Special Topics in Public Communication: Rhetoric of the Women's Movement)
ML&L 3310 (French Literature in Translation: Versions of Feminism)
ML&L 3310 (French Literature in Translation: The French Novel)
MLSC 1345 (Women and Music)
PHIL 3354 (Philosophy of Gender)
PLSI 1332 (Film, Literature, and Politics of the Third World)
RELI 3301 (Gender and Religion)
SPAN 4338 (Spanish Women Writers)
SPAN 4346 (Spanish American Women Writers)
SPAN 4349 (Special Topics: Chicana Feminisms)
THTR 3325 (Greek and Roman Drama) (also listed as CLAS 3303 and ENGL 3322)

Social Sciences
ANTH 3329 (Sexuality and Society) (also listed as SOCI 3329)
ANTH 3331 (Language, Culture, and Society) (also listed as SOCI 3331)
ANTH 3358 (The Anthropology of International Relations)
COMM 3325 (Special Topics in Communication Media: Popular Culture, Gender, and Communication)
PSGC 3325 (Psychology of Gender)
SOC 3311 (Sociology of Sex Roles)

Courses
WAGS-2310 Introduction to Women's Studies
A feminist perspective on work, family, sexuality, identity formation, class stratification, racial and cultural diversity, and cultural representations of gender. Overview of the history of the women's movement and historical and contemporary debate among feminists.

WAGS-2350 Introduction to Feminist Theory
An introduction survey of feminist theory, both as an intellectual, philosophical tradition and as a program of political activism. At the discretion of the instructor, this course may entail a history of feminist theory; an engagement in specific debates or school of criticism; and/or involvement in community activism.

WAGS-2351 Intro to Queer Studies
An introduction to the interdisciplinary field of Queer Studies. Topics may include a historical survey of homosexuality and the Gay Rights movement; queer theory; psychoanalysis and psychology of sexuality; film and media studies; discussion of current events.

Note: Special topics courses are approved by the advisory committee only for the specific topic listed.
WAGS-3-75 Science, Gender, and Sexuality Colloquium
This team-taught course investigates scientific approaches to sexuality and gender. To be taught by faculty from various scientific disciplines.
Prerequisite: WAGS 2350, 2351, or 2352, or consent of instructor.

Faculty

ROSANA BLANCO-CANO, Ph.D., Assistant Professor, Modern Languages and Literatures; Co-Chair

ANDREW KANIA, Ph.D., Associate Professor, Philosophy

DEBRA OCHOA, Ph.D., Assistant Professor, Modern Languages and Literatures

BLADIMIR RUIZ, Ph.D., Associate Professor, Modern Languages and Literatures

CLAUDIA STOKES, Ph.D., Associate Professor, English

AMY L. STONE, Ph.D., Assistant Professor, Sociology and Anthropology

MARY ANN TÊTREAULT, Ph.D., Una Chapman Cox Distinguished Professor of International Affairs, Political Science

RITA E. URQUIJO-RUIZ, Ph.D., Associate Professor, Modern Languages and Literatures; Co-Chair