

Course of Study Bulletin courses-of-study-2019-2020

Undergraduate and Graduate Studies Effective June 2019 for the 151st Academic Year.

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Credit Hours

One credit hour represents a minimum of three hours of student academic work per week for approximately fifteen

included in all5

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Classification of Students

Students are classified on the following basis:

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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 work in question and assign the grade it deems appropriate.

If either the student or the instructor contk i. r co aice o1 r stated procedure in the

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 record of students	Associate 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 Finance
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.

Satisfactory Progress Requirements for Undergraduate Financial and 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 consult with Student Financial Services.

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:

1.80 cumulative -- for the first semester students who have attempted at least 12 credit hours.

2.00 cumulative -- for students beyond the first semester who have attempted more than 12 credit 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.

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.

Final Exam Relief

If a student has three final exams scheduled on the same calendar day, then the student is entitled to have one of the three exams rescheduled. The student must make this request of their instructors at least three weeks prior to the exam date. If such requests do not lead to the necessary accommodation, then the student should work with their academic adviser, who will contact the Office of Academic Affairs. Academic Affairs will prioritize student interests in resolving the issue.

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 credit hours, and must have earned 9 credit hours during the last semester attended.

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- 6. Only courses that are clearly specified as internships in the Courses of Study Bulletin can be used for internship credit (i.e., courses such as Independent Study, Directed Studies, etc., cannot be used).
- 7. The academic department will provide the student with guidelines that clearly specify the grading criteria for the course. These guidelines will be a component of the Learning Agreement referred to above.
- 8. Internships will generally be graded on a pass/fail basis. Exceptions require departmental or program chair approval.
- 9. Credit will generally not be given for internships that are served where either the owner or manager of the

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Modern Languages and Literatures: - Modern Languages and Literatures - Arabic - Chinese - French - German - German Studies - Italian - Russian - Spanish	ML&L ARAB CHIN FREN GERM GRST ITAL RUSS SPAN
Music: - Music - Music Ensemble	MUSC MUSE
Neuroscience	NEUR
Philosophy	PHIL
Physical Education	PHED
Physics	PHYS
Political Science	PLSI
Psychology	PSYC
Religion	RELI
Scientific Computing	SCOM
Sociology and Anthropology: - Anthropology - Sociology	ANTH SOCI
Special Studies - U.S. and Abroad	SPCL
Sport Management	SPMT
Urban Studies	URBS
Women's and Gender Studies	WAGS

Three optional Curricular Elements can further enrich a Trinity education:

- 7. Experiential Learning
- 8. Minors
- 9. A Second Major

Students are especially encouraged to include Element 7, Experiential Learning, in their curricula.

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.

Graduation Requirements

To receive an undergraduate degree a student must:

- Complete at least 124 credit hours (129 credit hours for a Bachelor of Science in Engineering Science).
- Complete the six Curricular Requirements listed above.
- Complete at least 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, below.)

To become eligible for a second, and different, bachelor's degree, a student must earn a minimum of 30 additional credit hours of work in residence beyond the requirements for one degree, at least 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 credit 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 credit 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.

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.

Guidelines

To encourage students to experience a broad range of educational experiences, the University maintains the following guidelines:

- To earn a bachelor's degree from Trinity University, a student must successfully complete at least 3 credit hours from each of 10 different academic disciplines. *
- No course may be used to satisfy both the Approaches to Creation and Analysis and the Interdisciplinary Cluster requirement.
- The First-Year Experience (FYE) may not be used to satisfy any other graduation requirement.

• A minimum of 24 credit hours must be earned outside the major department and major requirements (n.b., only Engineering Science majors may include the FYE).

*Each discipline is designated by a particular three- or four-letter subject code, such as "ART" or "ARTH."

Curricular Element I: The First-Year Experience

Students should demonstrate the ability to analyze sophisticated texts and ideas through (1) reasoned discussion

Requirements:

instruction in oral and visual communication.

в. Digital Literacy

Students should demonstrate the ability to (1) investigate questions, solve problems, or engage in artistic expression through the systematic manipulation of digital information; and (2) evaluate the design, function, or cultural impact of a digital technology.

Requirements:

To qualify for graduation with a bachelor's degree from Trinity, a student must fulfill the **Digital Literacy** requirement by successfully completing **one** course designated with the abbreviation **DL**.

Explanation:

Courses that carry a **DL** designation provide substantial instruction in principles and tools of digital information manipulation and significant activities where students employ those principles and tools to satisfy the two learning outcomes.

c. Global Awareness, Understanding Diversity, and Foreign Language

Students should demonstrate the ability to (1) identify and articulate the perspectives and values of diverse people, groups, and cultures both within the United States and beyond its borders; (2) gather and evaluate information from sources that facilitate cross-cultural understanding; (3) communicate in a foreign language at the intermediate level or above.

Requirements:

To qualify for graduation with a bachelor's degree from Trinity, a student must fulfill the requirements for Global Awareness (GA), Understanding Diversity (DV), and Foreign Language (FL), as follows:

- A student fulfills the **Global Awareness** requirement by successfully completing **one** course (totaling no fewer than 3 credit hours) designated with the abbreviation **GA** *or* by successfully completing an approved study abroad program.
- A student fulfills the **Understanding Diversity** requirement by successfully completing **one** course (totaling no fewer than 3 credit hours) designated with the abbreviation **UD** or by successfully completing an approved independent study project or an internship that substantially engages with the diversity issues listed below.
- A student fulfills the Foreign Language (FL) requirement by successfully completing an intermediate level

or higher course in a foreign language sequence in a modern or ancient language taught at Trinity, or demonstrating equivalent proficiency by examination.

Explanation:

Every GA course addresses the history and culture of a region other than the United States.

Every **UD** course addresses diversity issues involving, e.g., race, ethnicity, ability, social class, gender, religion, or sexualities, primarily within the United States.

Every **FL** course focuses on cross-cultural understanding through the mastery and employment of foreign language skills.

Curricular Element IV: The Interdisciplinary Cluster

Students should demonstrate the ability to explore a complex subject of enduring or contemporary significance by employing multiple disciplinary methods.

Requirement:

To qualify for graduation with a bachelor's degree from Trinity, a student must complete at least one **Interdisciplinary Cluster.**

The Interdisciplinary Cluster must be fulfilled by successfully completing **three** courses (totaling no fewer than 9 credit hours) from three disciplines.* These courses may be structured as a part of a faculty-designed Interdisciplinary Cluster or student-designed three-course learning experience that meets the above guidelines and is approved by the University Curriculum Council. Courses in the Interdisciplinary Cluster must be taken at Trinity University, with one exception: one course from a Trinity-approved Study Abroad program may be applied to a student's Interdisciplinary Cluster with pre-approval by the Interdisciplinary Cluster Steering Committee. Only one course in the cluster may be used to fulfill the requirements of the student's primary major.

Students must declare their intention to complete a specific Interdisciplinary Cluster at the same time that they apply for admission to their primary major. (See Curricular Element V: The Major.)

Note: ID Clusters hold great potential to integrate Trinity s liberal arts and pre-professional programs and to encourage productive collisions among disciplines. Courses used to fulfill the Interdisciplinary Cluster requirement may also be used to fulfill Core Capacity requirements, a minor, or a second major.

*Each discipline is designated by a particular three- or four-letter subject code, such as "ART" or "ARTH."

Curricular Element V: The Major

The major provides for in-depth study of a field of specialization. The requirements for each major are found in this

experiential learning (EXL) opportunity.

These opportunities may include:

- Experiential Learning (EXL) courses. EXL courses may include, but are not restricted to, those classes where students (1) engage and interact with the local or global community; (2) engage in project-based learning experiences beyond what is traditionally required in a class; or (3) create artifacts for an outside audience.
- Experiential Learning (EXL) Fellows Program. Students may participate in existing programs or pursue their own interests through a self-designed experience. These (co-curricular) experiences consist of activities that complement coursework and involve significant reflection. To be recognized as an EXL Fellow, students and their faculty advisors must submit a formal proposal to the Center for Engaged and Experiential Learning envisioned in the Strategic Plan, or other designated approval body.
- Fellowship experiences generally fall into the following categories:
 - Study abroad or cultural immersion;
 - Independent undergraduate research;
 - · Creative activity, including original work in the arts;
 - Internships;

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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 credit hours attempted and the average is not rounded. Honors will be determined on the basis of four years of undergraduate work, 60 credit 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.

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. James Shinkle is the chair of the committee, and 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. John 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 students 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.

Seminaries and 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 students 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 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 credit hours (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.

Enrollment Information

- Admission Policy
- <u>Admission Minimum Course Expectations</u>
- International Student Requirements
- Temporary Withdrawal
- <u>Readmission to the University</u>
- <u>Registration</u>
- <u>Add/Drop Period</u>
- <u>Withdrawal from a Course</u>
- <u>Withdrawal from the University</u>
- Health Services, Health Record, and Insurance
- Credit From Other Institutions and by Examination
- <u>Credit by Examination</u>
- Air Force Reserve Officer Training Corps Program
- <u>Army Reserve Officer Training Corps Program</u>
- <u>Correspondence Study</u>

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 <u>mailto: admissions@ trinity.edu</u>.

Admission Minimum Course Expectations

Minimum secondary school course expectations 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 is expected in each course.

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 must submit International Student Financial Certification demonstrating one s ability to fund a Trinity education (contact International Programs Office 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 and required financial certification.

Temporary Withdrawal

A student may request a temporary withdrawal from the university for one or two semesters. The form applying for temporary withdrawal must be obtained from the Office of the Registrar and filed with the Registrar following consultation with the student's faculty adviser and the Associate Vice President for Student Life and Dean of Students or the Vice President for Academic Affairs. Temporary withdrawal for more than two semesters can be taken only with approval of both the Associate Vice President for Student Life and Dean of Students for Academic Affairs and will be granted only for compelling reason. A student on temporary withdrawal 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.

If the purpose of the temporary withdrawal includes study at another college or university, permission for the temporary withdrawal requires the approval of the Office of the Vice President for Academic Affairs, and the justification 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 to receive 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. A temporary withdrawal that includes study elsewhere 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. Note: Students receiving aid from Trinity, particularly students who have borrowed student loans, should consult with the Office of Financial Aid prior to taking a temporary withdrawal to determine what impact a temporary withdrawal may have on aid eligibility.

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

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 tenth full week of classes in fall and spring semesters and during the fourth 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 fourth week of the course during the fall or spring semester, or the second 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: Student Academic Issues shall consult with the instructor before approving exceptions to withdrawal policies. After the withdrawal deadline no student may withdraw from a class except in an emergency such as hospitalization.

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.

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 Associate Vice President for Student Life and Dean of Students or Vice President for Academic Affairs.

A student who wishes to withdraw from the University must submit an application for complete withdrawal, signed by his 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

from the web page <u>Vital Information for New Students</u>, under the Forms and Digital Copies tab. The Health Record should be completed by the student and a healthcare provider and returned to Health Services before moving onto campus.

Texas law requires all students under 22 years of age to have received the Meningococcal vaccine at least 10 days before class starts and within the 5 years prior to the first day of class. 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 for students in need of medical consultation. The service is staffed by registered nurses, and physicians hold clinics four days a week, by appointment. The range of services includes nursing assessment and care of illness, injuries and minor emergencies; administration of vaccines; laboratory testing; medical evaluation and treatment by a physician during clinic hours; and appropriate medical and dental referrals.

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).

Trinity University does not limit the number of credit hours that may be accepted as transfer credit. However, the University does require students to complete courses fulfilling the Approaches to Creation and Analysis and the Interdisciplinary Cluster in residence at Trinity. Exceptions to this rule are made for transfer students, whose

transfer credit may be applied to the Approaches to Creation and Analysis requirements and will be evaluated on a case-by-case basis.

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-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.

Study Abroad and Off-Campus Study

Trinity University believes that living T S an

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. 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 nonrefundable 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 credit 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

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 no have one already.

SCHOLARSHIPS AND REMUNERATION:

Air Force ROTC offers 4-, 3.5-, 3-, 2.5-, 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 in the North Paseo Building (1.220) 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 210-436-3415 (ROTC Recruiting Operations Officer) and 210-379-1997 (ROTC Enrollment Officer). The e-mail address is <u>mailto:rotc@stmarytx.edu</u>.

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

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 selected 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 selected 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.

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.

General Information

- <u>Mission</u>
- Independent Status, Charter, Covenant

Accreditation

Trinity University is accredited by the Southern Association of Colleges and Schools Commission on Colleges 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. Normal inquiries about Trinity University, including

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, gender identity, gender expression, or any 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 Finance and Administration. Students with disabilities who desire accommodations should contact Student Accessibility 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 Finance and Administration.

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

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

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 Leadership); 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 engage in study at an advanced level and to develop professional competence in the area of their specialization, with emphasis upon the development of analytical thinking, independent and original research, and effective communication.

- <u>Commission on Graduate Studies</u>
- Graduate Faculty
- Admission
- Advising and Registration
- Readmission
- Minimum Hour and GPA Requirement
- <u>Applicable Bulletin</u>
- Additional Requirements
- Graduation Requirements
- Academic Load
- Transfer of Graduate Credit
- Independent Study
- Grades and Minimum Performance Requirements
- Grade Appeals
- <u>Completion of Credit Courses</u>
- <u>Time Limit</u>
- Withdrawal

Commission on Graduate Studies

The Commission on Graduate Studies serves as the academic policy committee for graduate students on all

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

Required Documentation

Persons interested in doing graduate work at Trinity University should submit the following items:

- 1. Application form and fee.
- 2. An official transcript or transcripts of all previous college and university work. These transcripts must be not more than one year old. All transcripts become a part of the University s files and will not be returned.
- 3. Test scores not over five years old on the Graduate Record Examination, Graduate Management Admission Test, or other examinations required by the graduate program.
- 4. One or more letters of recommendation if specified by the graduate program.

The application deadline is one month prior to the beginning of the semester or as established by the program. Persons outside the United States should submit their applications at least three months prior to the semester they plan to enter the University. Registration is not permitted until application for admission has been approved.

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 the International Programs Office for current financial certification requirements.) Applicants should submit certified English translations of documents. (See Foreign Studies Evaluation, below.) Trinity University will issue Form I-20, Certificate for Eligibility for Nonimmigrant (F-1) Student Status, only upon receipt of a nonrefundable deposit indicating acceptance of an offer of admission.

Bachelors Degree Requirement

Graduates holding the bachelors degree from an institution accredited by the appropriate regional accrediting

Non-Degree Admission

Upon the approval of the appropriate academic department, students not pursuing a degree may be admitted on a non-degree basis to enroll in graduate courses.

Students who have been admitted to a program on a non-degree basis and who later decide that they would like to become degree candidates must apply for admission to degree status and provide all required information including test results. There is no guarantee that courses taken on a non-degree basis will later apply for credit toward a graduate degree.

Foreign Studies Evaluation

All foreign academic credentials submitted for transfer credit or for admission to the graduate program must be accompanied by a professional evaluation performed by an approved evaluation service, including an English translation if not in English. Course descriptions or syllabi may also be required. It is the student's responsibility to procure the evaluation and to assume financial responsibility for it. Because of the importance of this information, Trinity only accepts evaluations certified as official and received directly from the American Association of Collegiate Registrars and Admissions Officers (AACRAO) or from other approved service providers. Contact the Office of the Registrar or visit the web site for a list of approved foreign credentials evaluation services.

Evaluations should include an explanation that the institution is recognized by the ministry of education in the home country and is generally considered to offer at least the equivalent of U.S. higher education credit. In addition, the evaluation must include an explanation of the credits, the grading system and course levels, and a course-by-course evaluation. Trinity is under no obligation to award credit on the basis of an outside agency s evaluation. The professional evaluation will be used as a tool in the overall credit evaluation process.

Advising and Registration

After admission has been approved, degree students should confer with the graduate program director of the major department or with an adviser appointed by the program director to arrange a complete program of graduate studies. Students admitted to graduate study will follow the regular university procedures for registration.

Readmission

A former graduate student who chooses to seek readmission after being dismissed from the University for any reason, or who chooses to seek readmission after withdrawing from the University for any length of time, must

submit an application for readmission no later than one month prior to the beginning of the term. Official transcripts from any colleges or universities attended during the time since the student last attended Trinity University must be submitted as part of the application for readmission. No new application fee is required.

The decision to readmit or not to readmit a student shall be made by the academic department or program at its discretion. In making this decision, the department may consider, among other things, the student's performance within the program and his or her commitment to and suitability for the relevant profession. The department may require the student to submit updated application materials, including updated test scores and letters of recommendation.

If a department denies an application for readmission, the student may appeal to the Commission on Graduate Studies. The Commission may choose to gather evidence and to interview any parties whom the Commission deems relevant. The Commission may decide to uphold or to overturn the department's decision, and the Commission's decision shall be final.

Minimum Hour and GPA Requirement

A minimum of thirty semester hours is required for the master s degree.

A minimum grade point average of 3.00 is required for the master's degree. No more than 6 hours of courses graded C can apply toward a master's 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.

Additional Requirements

Some graduate programs may require one or more of the following:

• Thesis;

- Applied research project;
- Portfolio;
- Internship or residency;
- Licensing examination.

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 notified the Registrar of his or her intention 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 SPCL 6099. There will be a fee of \$200 for registration for SPCL 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, required internship, or residency 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

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notification of the decision. When making a decision on an appeal, the Commission will consider the recommendation of the student's academic department.

of the Commission 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 Commission, then the Commission may undertake an evaluation of the student work in question and assign the grade it deems appropriate.

- 5. If either the student or the instructor wishes to contest the outcome of the Commission's review in step four, the appellant may petition the Vice President for Academic Affairs for further consideration. To initiate this step in the appeals process, the student or the instructor must submit a written appeal to the Vice President no later than ten (10) business days after receiving the outcome of the Commission's review. The Vice President may then rule in one of two ways:
 - A. That the decision of the Commission on Graduate Studies will stand as rendered;
 - B. That the Commission on Graduate Studies reconsider its findings and render a decision based on the reconsideration.

This review is the final step in the grade appeals process.

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.

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.

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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 credit 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	Race in America (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
RELI 3482	African Religions in the Americas
SOCI 3327	Race in America (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 2304American Literature: New Realism th3 h3 h3ca the Faculty

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.

AFAM-3-90 Special Topics in African American Studies

From time to time, the program will offer special topics courses not described in the Courses of Study Bulletin. Topics may be in any area(s) of African American Studies and will be offered at the initiative of faculty members. Course may be repeated for credit when topics vary

American Intercultural Studies

Faculty

<u>William T. Burke III, J.D.</u>, Associate Professor, Business Administration; Director <u>Peter O'Brien, Ph.D.</u>, Professor, Political Science <u>Richard K. Reed, Ph.D.</u>, Professor, Sociology and Anthropology

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
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 (bilinguë) (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 (bilinguë) (also listed as

Arts, Letters, and Enterprise

Faculty

<u>Jeanna Balreira, B.A.</u>, Strategic Communications and Marketing <u>Carl Leafstedt, Ph.D.</u>, Associate Professor, Music; Co-Director <u>Jack Leifer, Ph.D.</u>, Associate Professor, Engineering Science <u>Luis E. Martinez, Ph.D.</u>, Director, Center for Innovation and Entrepreneurship <u>Adam Schreiber, M.F.A.</u>, Assistant Professor, Art and Art History <u>James Shinkle, Ph.D.</u>, Professor, Biology <u>Jacob K. Tingle, Ed.D.</u>, Assistant Professor of the Practice of Business Administration; Co-Director

Overview

The Arts, Letters, and Enterprise program is designed as an efficient guided way to couple business literacy with any major at Trinity. Two paths exist for students to pursue interest in this area: a Minor and Certification. The requirements for each path are listed below.

Requirements

- <u>Minor</u>
- <u>Certification</u>

The Minor

The minor in Arts, Letters, and Enterprise is an interdisciplinary program in which students explore various aspects of administering complex organizations in the modern world. The program is designed to afford students the opportunity to further develop the critical thinking, writing, public speaking, leadership, and business literacy skills used in traditional business environments and by those in the arts, theatre, non-profit, technology, and governmental sectors.

Students studying Arts, Letters, and Enterprise are strongly encouraged to study a foreign language beyond the minimum required by the university. Students beginning this minor are also encouraged to take ACCT 1300 prior to MGMT 2301.

Specifically, the Arts, Letters, and Enterprise minor requires:

FREN 3305 Introduction to French Literature I*

FREN 3306 EN 3306

ART 3314

Issues in Contemporary Art*

ART 2314/ENGL 2340/GNED 2340/MUSC 2340/THTR 2340

I. Successfully completing a minimum of four of the Arts, Letters, and Enterprise courses as detailed below.

A. Required courses (must complete three of the four listed courses):

GNED 2340	Creative Thinking and the Artistic Process
ACCT 1300	Understanding the Language of Business
ALE 3301	Grant Writing and Fundraising
MGMT 2301	Management of Organizations

One of the following courses:

ANTH 3368	Anthropological Ethics
COMM 3364	Ethics and the Mass Media
NEUR 3310	Neuroethics
PHIL 1350	Environmental Ethics
PHIL 1354	Ethics
PHIL 1359/BUSN 1359	Professional Ethics
PHIL 2456	Applied Ethics

B. Elective courses (At least three credit hours; one course from the following list):

WRITING AND ANALYSIS IN THE HUMANITIES AND SOCIAL SCIENCES

Courses in the Writing and Analysis section must have a substantial writing component and analytical component. Typically, courses will include a minimum of 15-20 pages of written work. Depending on the faculty members preference, this total may include multiple shorter papers, one longer paper, or work involving revision in response to faculty or peer critique.

ANTH 3464	Morality and the Marketplace
ART 3314	Issues in Contemporary Art*
ENGL 3414	Advanced Exposition and Argument*
ENGL 3335	Rhetorical Analysis*
FREN 3305	Introduction to French Literature I*
FREN 3306	Introduction to French Literature II*

by:

FREN 4304

Art and Art History

Faculty

Laura Agoston, Ph.D., Associate Professor, Art History Douglas Brine, Ph.D., Associate Professor, Art History Lisa Endresen, M.A., Curator of Visual Resources and University Collections, Art and Art History Mark B. Garrison, Ph.D., Alice P. Brown Distinguished Professor of Art History Jessica Halonen, M.F.A., Associate Professor, Art Jongwon Lee, M.F.A., Associate Professor, Art Kathryn O'Rourke, Ph.D., Associate Professor, Art History; Director, Architectural Studies Kate Ritson, M.F.A., Professor, Art; Chair Adam Schreiber, M.F.A., Associate Professor, Art History Randy Wallace, M.F.A., Studio Manager, Art Elizabeth Ward, M.F.A., Professor, Art

Overview

The Department of Art and Art History features two distinct programs, one in art history, the other in studio art. The art history program explores art and architecture in their historical contexts, while the studio art program teaches the technical and conceptual components of artistic creation.

The minor in Architectural Studies provides an introduction to the study of architectural and allied fields. Through courses in several disciplines, minors become acquainted with aspects of architecture, including design, history, and urbanism. Students who plan to pursue graduate study in architecture, urban planning, landscape architecture, historic preservation, architectural history or a related field are strongly encouraged to consult with faculty in the Department of Art and Art History early in their time at Trinity to organize a course of study beyond the minor that will prepare them for graduate work.

Requirements

The Major

B. Completion of ARTH 4394 in the senior year. The course is generally offered every spring semester.

C. 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.

II. University requirem cartise in at least on T. y troeast o ese, on of AF

ART 3450	Photography II
ART 2470	Sculpture: Clay
ART 2474	Sculpture: Wood
ART 2495	Outdoor Studio
ART 3430	Drawing II
ART 4430	Drawing III

Applicable special topics courses

Art History

ARTH 1407	Art History I
ARTH 1408	Art History II
ARTH 1412	Art and Architecture in Latin America Since the Sixteenth Century
ARTH 1413	Art and Archeology of Ancient Egypt
ARTH 1314	Art and Architecture of Medieval Europe
ARTH 3322	Greek Architecture
ARTH 3325	Roman Art and Architecture
ARTH 3452	Nineteenth-Century Architecture and Urbanism
ARTH 3454	Mexico City
ARTH 3365	Contemporary Architecture
ARTH 4398	Honors Thesis
ARTH 4399	Honors Thesis
Applicable special topics courses	

Applicable special topics courses

Engineering

ENGR 1313 Mechanics I (prerequisites: MATH 1311 AND PHYS 1311)

ENVI 1301	Introduction to Environmental Studies
ANTH 2357	Humans and the Environment
ANTH 3363	Water, Culture, and Power
Physics	
PHYS 1309	General Physics I (prerequisite: MATH 1311 or 1307; corequisite: PHYS 1111)
PHYS 1311	Introduction to Mechanics (prerequisite: MATH 1311 or 1307; corequisite: PHYS 1111)
Urban Studies	S
HIST 3333	History of Paris
URBS 3330	Economics and the Environment (prerequisite: ECON 1311)
URBS 3334	Urban Economics (prerequisite: ECON 1311 and 3 upper division hours in ECON or URBS)
URBS 3340	Urban Geography
URBS 3365	Research Methods: GIS
Human Communication and Theatre	

THTH 2310	Principles of Design
THTR 2312	Experiential Learning

Applicable special topics courses

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 credit 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 credit hours consist of ARTH 4394–Theories and Practice of Art History, taken during the senior year, plus 6 credit hours for the Honors Thesis (ARTH 4398, 4399), taken during the senior year. A full description of the honors program in Art History is available in the departmental office.

Courses

Art - General Studies

ART-1410 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 1410 and THTR 2310.

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, guests 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 GNED 2340, THTR 2340, ENGL 2340 and MUSC 2340.)

ART-2495 Outdoor Studio

Outdoor Studio consists of working excursions to outdoor sites in and around San Antonio. Students in Outdoor Studio create works of art on site and gather information to create or complete work in studio. Traditional landscape media, contemporary strategies, and new technologies are explored. Course includes readings and

A continuation of Art 2430. Prerequisite: ART 2430

ART-4430 Drawing III

A continuation of ART 3430. Course may be repeated for a maximum of 12 credit hours. (Offered every year.) Prerequisite: ART 3430.

Art - Painting

ART-2440 Painting I

A basic course in beginning painting techniques and issues in contemporary painting. Prerequisite: ART 1410 or 2430

ART-3440 Painting II

A continuation of ART 2440. Prerequisite: ART 2440.

ART-4440 Painting III

A continuation of ART 3440. Course may be repeated for a maximum of 12 credit hours. Prerequisite: ART 3440.

Art - Photography

ART-2450 Photography I

A basic course in beginning black and white traditional film/darkroom photographic techniques and issues in photography. Preference will be given to Art and Art History majors and minors . (Offered every Year.)

ART-2451 Thinking Photography

A course rooted in Roland Barthes' notion of the pensive image: "Ultimately, photography is subversive, not when it frightens, repels, or stigmatizes, but when it is pensive, when it thinks." Students will produce, interpret, discuss, and display collaborative work and individual projects. Topics of focus include history of optics; site specificity and the camera obscura; experimental, improvised cameras; the still and the moving image; the unfixed image; the unique image; the beautiful document. (Offered every year.)

ART-3450 Photography II

This course builds on foundational photographic processes. With an emphasis on aesthetic and conceptual uses of the camera, students explore processes of analog and digital overlap. Additionally, this course explores historically established uses of the photographic medium and their relation in contemporary contexts. (Offered every semester.) Prerequisites: ART 2450 or 2452.

ART-3452 Photography III

This course builds on photographic processes involving film and digital overlap. Emphasis is on deliberate and experimental use of camera format, creation of an efficient and beneficial workflow, and the production of a cohesive body of photographic prints using a range of inkjet printers. Additionally, this course explores historically established uses of the photographic medium and their relation in contemporary contexts. Prerequisite: Art 3450

ART-4450 Advanced Photography Projects

ART 4450 Advanced Photography Projects explores advanced aspects of photographic capture, creation, and output. Emphasizing process-oriented engagement with digital and analog tools, students explore possible forms of photographic objects. (Offered every year.) Prerequisite: at least two courses in photography or consent of the instructor.

Art - Digital Photography

ART-2452 Digital Photography I

This course introduces students to the digital camera and editing platforms as tools for creative and expressive use of the photographic medium. Deliberate use of camera capture functions and file management will be explored in tandem with editing strategies using Adobe software. Exhibition-grade inkjet printing will be introduced in a fully equipped Mac lab. This course emphasizes the concepts, theory, and history of the photographic medium within the context of contemporary art. Students will produce photographs by a variety of digital means and engage in meaningful discussion and critical analysis of images and image aesthetics. (Offered every semester).

ART-4-52 Advanced Digital Photography

A continuation of ART 3452. Credit may vary from 1-3 semester hours. Course may be repeated for a maximum of 9 credit hours. Prerequisite: ART 3452.

Art - Printmaking

ART-2460 Lithography and Monotype

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 2460, 2462, 2464, 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.

Art - Sculpture

ART-2470 Sculpture: Clay: Handbuilding

A beginning level course in sculpture focusing on clay handbuilding techniques, electric kiln firing, and glaze processes. Issues in contemporary clay sculpture are explored through guided assignments and student research.

ART-2474 Sculpture: Wood

A beginning-level course in sculpture focusing on construction techniques in wood. Issues in contemporary sculpture will be explored. The class is designed to serve as an introduction to basic visual concepts and applications as they apply to the creation and evaluation of sculptural artwork composed primarily of wood

ART-3471 Sculpture: Advanced Clay Projects

Sculpture: Advanced Clay Projects is focused on porcelain clay and porcelain clay slip. It will develop the student's conceptual and technical interests associated with portfolio development. A series of guided assignments based on hand building, mold making, and casting techniques, are sequenced to explore contemporary issues in art. Research assignments will build on concepts of visual literacy and terminology. May be repeated up to 3 times. Prerequisites: ART 2470 or 2471

ART-3473 Sculpture: Contemporary Concepts and Materials

This sculpture class will introduce visual concepts and applications as they apply to the creation and evaluation of art works composed of mixed materials. Processes will emphasize construction of armatures, additive applications, body casting, and surface treatments. Materials introduced include but are not limited to wood, plaster, found object, and synthetic materials. Students of all skill levels are welcome to enroll. (Offered every year.)

Art - 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.

Art - 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 6 semester hours. Pass/Fail only. Prerequisites: Junior or senior standing art major or minor and consent of department 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 other art related professions. Fall semester only. ART 4394 and ART 4297 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 requir/ t5 . b dy, and ing instiline e: Senior standing with major in Studi2 t.

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artworks from Prehistory to the late Middle Ages, focusing on Europe, the Mediterranean, and their fringes. It examines material from various contexts, including Paleolithic France, Pharaonic Egypt, Imperial Rome, and Christian Europe, concluding with Gothic art produced on the eve of the Renaissance. A wide range of sites, structures, and objects in various media are considered in relation to their social, cultural, political, religious and historical contexts. (Offered every semester.)

ARTH-1408 Art History II: Renaissance to Modern Art

The course is a continuation of ARTH 1407, though it may be taken independently. Art History II is a selective survey of painting, sculpture, and architecture from the late Gothic period to the rise of Modernism. Beginning in the 14th century, the course surveys works of art and architecture created in a variety of contexts, spanning the periods of Renaissance and Baroque Europe, the Enlightenment and Industrial Revolutions, Neoclassicism and Romanticism, and the artistic movements of the 19th century. ARTH 1408 concludes with Modern art and architecture in Europe, Mexico, and America. Following a roughly chronological order, the course considers the social, sacred, historical, and political functions of art, techniques of production, artistic styles, iconography, and patronage. (Offered every semester.)

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-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) Common Curriculum: This course will only count towards Greco-Roman, Jewish, and Christian Traditions through the Early Modern Period.

ARTH-1412 Art and Architecture of Latin Americas Since the 16TH 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 relations 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. (Offered every year.)

ARTH-1413 Art and Archaeology of Ancient Egypt

A survey of the major monuments and sites of ancient Egypt, with a focus on the Predynastic period, the Old Kingdom, and the New Kingdom. (Offered every year.)

ARTH-2428 Art and Archaeology of Mesopotamia and Persia

A survey of the major monuments and sites of ancient Mesopotamia and Persia, modern day Iraq and Iran respectively, with a focus on the visual expression of royal power in art and architecture.

ARTH-2430 Art and Patronage At the Court of Burgundy

This course provides an introduction to the visuals arts at the Burgundian court, from its inception in the late 14th century under Philip the Bold to the regency of Margaret of Austria in the early 16th century. During this era, the area now known as northern France, Belgium, and the Netherlands was governed by the dukes and duchesses of Burgundy and their Habsburg successors. Under their rule, it became the dominant force in northern Europe and the court's dazzling splendor set the standard for princely magnificence throughout the Renaissance. The political, social, and religious concerns of the Burgundians will be explored through the paintings, sculptures, textiles, metalwork, and manuscripts they commissioned from Sluter, Van Eyck, Van der Weyden, and their contemporaries. (Offered every other year.)

ARTH-1306 Advanced Placement Credit in Art History

Students earning a 5 on the Advanced Placement Test in Art History will receive AP credit through this course.

Art History - Upper Division

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. Prerequisite: Completion of one course in Art History, or sophomore standing, or consent of instructor.

ARTH-3321 Greek Vase Painting

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. (Offered occasionally.) Prerequisite: Completion of one course in Art History, or sophomore standing, or consent of instructor.

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. (Offered occasionally.) Prerequisite: Completion of one course in Art History, or sophomore standing, or consent of instructor.

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. (Offered occasionally.) Prerequisite: Completion of one course in Art History, or sophomore standing, or consent of instructor.

ARTH-3357 History of Photography

This course examines the artistic practices and the critical accounts which constitute the history of photography,

instructor.

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. Prerequisite: Completion of one course in Art History, or sophomore standing, or consent of instructor.

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. (Offered occasionally.) Prerequisite: Completion of one course in Art History, or sophomore standing, or consent of instructor.

ARTH-3376 Contemporary Chinese Art

This course covers the development of art in China from 1976 (post-Cultural Revolution) to the present, including performance art, easel painting, concept art, women's art, etc. Aesthetic and stylistic changes will be examined in historical, societal, intellectual, and cultural contexts. (Also listed as CHIN 3376.) (Offered every Spring.)

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. Prerequisite: Completion of one course in Art History, or sophomore standing, or consent of instructor.

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. (Offered occasionally.) Prerequisite: Completion of one course in Art History, or sophomore standing, or consent of instructor.

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 u thiv oument of arn, the naturt es

the role of the altarpiece, popular devotion, technical innovations, and the international demand for Northern art, are explored through the work of Van Eyck, Van der Weyden, Memling, Schongauer, and their contemporaries. (Also listed as GRST 3440.)(Offered every other year.) Prerequisite: Completion of one course in Art History, or sophomore standing, or consent of instructor.

ARTH-3441 Early Renaissance Art in Italy

This course is a selective introduction to the art of Italy in the early renaissance, the period of the late thirteenth to the late fifteenth centuries. The course will pay particular attention to the cultural identity of Florence as well as Siena, Rome, and Venice. We will be studying the visual arts in relation to politics, religion, literature, and philosophy of the period as a distinctive cultural accomplishment. We will trace the careers of major artistic figures, such as Giotto, Masaccio, Brunelleschi, Donatello, and Botticelli not as isolated examples of genius but within the religious, social, economics, political, and historical contexts in which they functioned. The association of art and power dominates this period, and we will consider the interrelationship of structures of patronage within the church, the formulation of civic identity, gender, the imagery of political rule among leading families, particularly the Medici, and the changing status of the artist. (Offered every other year.) Prerequisite: Completion of one course in Art History, or sophomore standing, or consent of instructor.

ARTH-3442 Age of Leonardo: Art and Architecture in Italy 1475 - 1568

Art History 3442 is a selective introduction to the art and architecture of Italy from 1475-1568. The course will pay particular attention to the major artistic centers of Florence, Rome, Milan and Venice. We will be studying the visual arts in relation to the politics, religion, culture and society of the period as a distinctive accomplishment. We will trace the careers of major figures of the period (Leonardo, Bramante, Raphael, Michelangelo, Titian and Palladio) within the religious, social, economic, political, and historical contexts in which they functioned. (Offered every other year). Prerequisite: Completion of one course in Art History, or sophomore standing, or consent of instructor.

ARTH-3446 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 religions contexts of his artworks, and the later history of their reception. (Offered every other year). Prerequisite: Completion of one course in Art History, or sophomore standing, or consent of instructor.

ARTH-3447 Michelangelo: A Media-based Approach

Media, the plural of medium, refers to the materials from which a work of art is made. ARTH 3447 approaches the body of Michelangelo's work by media: drawing, painting, sculpture, and architecture. Additionally, we will consider the artist's poetry and letters in detail. Michelangelo was distinctive in his period for his mastery across the media and the course is designed to consider his technical accomplishments. ARTH 3447 will introduce students to the

This course offers an in-depth analysis of Abstract Expressionism in the United States, circa 1940-1960 by examining the most significant critics and artists associated with "New York School" painting at mid-century (among them, Jackson Pollock, Mark Rothko, and Helen Frankenthaler). The class investigates the complex origins of the movement out of the intersection of various spheres: from politics to social history, philosophy to biography, intellectual history to mass culture. (Offered every other year.) Prerequisite: Completion of one course in Art History, or sophomore standing, or consent of instructor.

ARTH-3459 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. (Offered occasionally.) Prerequisite: Completion of one course in Art History, or sophomore standing, or consent of instructor.

ARTH-3461 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. (Offered every other year). Prerequisite: Completion of one course in Art History, or sophomore standing, or consent of instructor.

ARTH-3464 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. (Offered occasionally.) Prerequisite: Completion of one course in Art History, or sophomore standing, or consent of instructor.

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. Prerequisite: Consent of instructor. May be repeated for a maximum of six credits.

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 gansy, theourse in Art

or art history course.

ARTH-4398 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.

ARTH-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.

ARTH-4494 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. (Offered every Spring.) Prerequisite: Completion of one course in Art History, or sophomore standing, or consent of instructor.

Biomathematics

Faculty

<u>Farzan Aminian, Ph.D.</u>, Professor, Engineering Science <u>Eduardo Cabral Balreira, Ph.D.</u>, Professor, Mathematics; Co-Director <u>Kevin Livingstone, Ph.D.</u>, Associate Professor, Biology; Co-Director <u>David Ribble, Ph.D.</u>, Professor, Biology

Overview

The Biomathematics minor is an interdisciplinary program designed primarily for students majoring in math or biology who are interested in the expanding field of mathematical modeling of biological phenomena.

Requirements

The Minor

The requirements for a Biomathematics minor are as follows:

I. The Core (21 hours)

BIOL 1311	Integrative Biology I
BIOL 1111	Introductory Biology Laboratory
BIOL 2312	Cells and Cell Systems
BIOL 2112	Cell Systems Laboratory
BIOL 2413	Genes, Phenotypes, and Evolutionary Dynamics
MATH 1311	Calculus I
MATH 1320	Statistical Methods
MATH 2308	Introduction to Analytical Models

II. Advanced Interdisciplinary Study (7 hours)

<u>Biology</u>

Faculty

Gerard Beaudoin III, Ph.D., Assistant Professor Frank Healy, Ph.D., Professor Michele Johnson, Ph.D., Associate Professor Jonathan King, Ph.D., Professor; Chair Kevin Livingstone, Ph.D., Associate Professor Kelly Lyons, Ph.D., Professor Troy Murphy, Ph.D., Associate Professor Gabriela Rennebeck, Ph.D., Lecturer David Ribble, Ph.D., Professor; Associate Vice President for Academic Affairs James Shinkle, Ph.D., Professor Bethany Strunk, Ph.D., Assistant Professor

Overview

The Department of Biology engages and supports students in a dynamic learning environment that promotes a broad, integrated, and interdisciplinary understanding of biological systems. The introductory biology curriculum emphasizes the core concepts and competencies described by the National Science Foundation in Vision and Change, and upper-division courses provide an opportunity to develop greater depth in select areas. The department supports a variety of interdisciplinary programs and encourages joint student-faculty resO

The Major

The requirements for the degree of Bachelor of Science with a major in Biology are a Follow.

I. A minimum of 32 credit hours of biology distributed as follows:

A. Area A: BIOL 1311, 1111, 2312, 2112, and 2413.

B. Area B: Students complete one of the following concentrations.

- 1. Ecology and Evolution. BIOL 3301 and three courses from the following list: BIOL 3420, 3426, 3427, 3424, or 3435.
- 2. Cellular and Molecular Biology. BIOL 3302 and three courses from the following list: BIOL 3450, 3451, 3457, 3458, 3459, 3462, 3463, 3466, or 3474.
- 3. Individualized Program. BIOL 3301 or 3302 and three additional courses selected in consultation with the student's advisor from the lists in 1 or 2.
- C. 3 additional hours in biology at the 2000 level or higher.
- D. BIOL 4201 or BIOL 4399

II. CHEM 1318, 1118, 2319, and 2119; MATH 1311; and MATH 1320 or PSYC 2401.

III. One of the following options:

A. CHEM 2320 and 2220 and one of the following: CHEM 3330, CHEM 3334, or ENGR 2311.

B. PHYS 1309, 1111, 1310, and 1112.

C. CSCI 1320, MATH 1312 or MATH 2308, and an upper division MATH or CSCI course approved by the students advisor.

D. GEOS 2400 and one course from GEOS 2401, 2304, 3402, or 3310.

IV. Completion of BIOL 4001 and 4002

V. University requirements: completion of all other required elements of the Pathways curriculum and at least 124 credit hours.

Guidelines for Acceptance of Majors

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

- 1. Complexite/CafeBioR306BU138602860286028602860286028602860296201286028602962012860286028602860286028602860286
- 2. Completion of CHEM 1318, 1118, 2319, and 2119 with grades of C- or better in each class.
- 3. An overall grade point average of at least 2.0.

2.

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 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-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. (Offered every year).

BIOL-1308 The Microbial Mothership

Chemical, geological and fossil data suggest that the earth is about 4.5 billion years old, and that bacterial life was present on earth for at least 3 billion years before any evidence of humans is found. The emergence of complex multicellular organisms such as humans has taken place in intimate association with microbial communities; and the present-day human-microbe association, the "metaorganism", is the product of an expansive and complex coevolutionary process. We have only recently begun to recognize the complexity and importance of the interrelationships that have evolved over millennia between human and animal cells and their associated microbial communities. In this course we will develop a framework to aid our understanding of the species diversity and critical interspecies dependencies (microbe-microbe and microbe-human) that comprise the human microbial

being, for example the effect of antibiotics and dietary changes. (Offered every other year).

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. (Offered every other year).

BIOL-1320 The Darwinian Revolution

Populations change through time, and understanding how and why they change is central to the study of biology. But, this wasn't always the case. In the Nineteenth Century, as Charles Darwin was developing the theory of evolution by natural selection, most scientists and the public alike believed that plants and animals were static, not changing since the time of creation. Thus, the writings of Darwin transformed our understanding of the dynamic

BIOL-2306 Infectious Diseases

This course will examine the biology of infectious diseases and the role of these diseases in global and public health policy. The lecture will consider disease organisms ranging from viral to helminthic and their associated vectors. The laboratory component of this lab/lecture course could focus on a number of aspects such as: 1) transmission of disease by water, 2) the role of sanitation in disease prevention, and 3) examination of selected life cycles of infectious agents as the contribute to disease. Trips to local public health sites are required and will take place outside of the regular class schedule. (Offered every other year). Prerequisite: BIOL 1311 and 1111

Area A: The Core

BIOL-1311 Integrative Biology

This course is designed to introduce students to the wide range of knowledge in the biological sciences and to 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 population levels. Modules for this first semester course include global change, the evolution of sexual reproduction, or other contemporary topics. (Offered every Spring) Corequisite: BIOL 1111

BIOL-1111 Introductory Biology Lab

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 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. (Offered every Spring.) BIOL 1311 must be taken concurrently.

BIOL-2112 Cells and Cell Systems Lab

Laboratory experiences that support the Cells and Cell Systems course. Emphasis on development of laboratory abilities including the design, execution and analysis of a biological investigations. Students will also be expected to demonstrate competency in techniques such as liquid handling, microscopy, data acquisition, and data analysis. (Offered every Fall). Prerequisites: BIOL 1311/1111 and CHEM 1318 or 1300 Corequisites: BIOL 2312

BIOL-2312 Cells and Cell Systems

This course addresses structure and function of cells using selected examples from biological systems to illustrate core biological concepts and motivate development of science competencies. Students will be expected to learn how cells regulate processes; how these processes relate to system function; how the physical world

influences cell behavior; how to analyze and interpret experimental findings from both primary data and research literature; and how to predict cell and cell system behavior. (Offered every Fall.) Prerequisites: BIOL 1311/1111 and CHEM 1318 or 1300 Corequisites: BIOL 2112

Area B: Courses

BIOL-3301 Experiential Learning in Ecology and Evolution

This is a field-based, inquiry-driven course that emphasizes hypothesis-testing in the natural world. In close collaboration with biology faculty in an ecological field setting, students will design and conduct field experiments on a variety of topics in ecology and evolution. The objectives of the course are for students to gain hands-on experiences with organisms in the field; develop the skills, techniques, and methods of analysis required to conduct biological field studies; communicate the results of scientific studies; and gain an appreciation for natural history. This course will enhance students' ability in critical thinking in the context of their upper division courses in ecology and evolution. Class time will be used to learn important techniques and means of analysis for field **studies** in the studies and means of analysis for field **studies** in the studies in the studies and means of analysis for field **studies** in the studies in the studies and means of analysis for field **studies** in the studies in the studies in the studies and means of analysis for field **studies** in the studies in the studies and means of analysis for field **studies** is the studies in the

Thib iemtetiactiliarse willeavestigete Topth esial wight 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: 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

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situations, 2) critically evaluate published research, 3) develop sound ecological questions and hypotheses, 4) design and implement experiments to test hypotheses, 5) analyze and interpret data, and 6) communicate findings in written and oral format to the class and in a manner that would translate to the scientific community. The course is constructed as a combination of interactive discussions and activities designed to reinforce student engagement with an electronic textbook and field-based laboratory. Students will be outside for most laboratory sessions and are required to attend a weekend field trip. (Offered every year). Prerequisites: Biol 2413, Chem 2319, 2119. Strongly recommended: PSYC 2401 or MATH 1320.

BIOL-3435 Evolution

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

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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

make an oral presentation of their research project at an appropriate venue. Attendance at the weekly Biology Seminar is also required. Prerequisite: BIOL 4398.

Chemistry

Faculty

Bert D. Chandler, Ph.D., Professor Christina B. Cooley, Ph.D., Assistant Professor Ryan Davis, Ph.D., Assistant Professor Laura M. Hunsicker-Wang, Ph.D., Professor; Chair Brittany E. Long, Ph.D., Instructor Corina Maeder, Ph.D., Assistant Professor Jason Shearer, Ph.D., Semmes Distinguished Professor Adam R. Urbach, Ph.D., Professor Marilyn D. Woottem, Ph.D., Instructor

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 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. Departmental requirements:

- A. 32 credits in chemistry including CHEM 1318, 1118, 2319, 2119, 2320, 2220, 3330, 2130,3001, 3432, 3334, 3335, 3135, 3321, 3121.
- B. MATH 1311, 1312.

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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. Department requirements

A. At least 47 credits in chemistry and biology, distributed as follows:

- 1. Core Courses. BIOL 1311, 1111, 2312, 2112, 2413, 3474, CHEM 1318, 1118, 2319, 2119, 2320, 2220, 3330, 2130, 3131, 3334, and 4340; BIOL 3000 or CHEM 3000 (1 semester).
- 2. Advanced Electives. Two courses chosen from the following list (one from each department): BIOL 3450, 3458, 3466, CHEM 3432, 4346, 4347, or the combination of 3321 and 3121.

B. MATH 1311, 1312

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.

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

occasionally.)

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.

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. Credit for CHEM 1305 will not be given to those students who have already fulfilled (or who are currently enrolled in a course fulfilling) the Using Scientific Methods section of the Understanding Natural Science and Technology portion of the Common Curriculum.

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 stoichometry 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. Co requisite: 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. Corequisite: CHEM 2319. Prerequisite: CHEM 1118 or equivalent.

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 2320

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-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. Corequisite: CHEM 2119. Prerequisite: CHEM 1318 or equivalent.

CHEM-2320 Organic Chemistry II

The continuation of Chemistry 2319 with emphasis on structure-activity relationships, mechanisms, and synthesis

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 emphases 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. Prerequisite: CHEM 2320, 3334. Co-requisite: CHEM 3121.

CHEM-3330 Biochemistry I

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 2320

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. Pre- or Corequisite: PHYS 1309 or 1311. Prerequisites: CHEM 1318; MATH 1308 or 1312.

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. Pre- or Corequisite: PHYS 1310or 1312. Prerequisite: CHEM 3334.

CHEM-3380 Chemistry Peer Tutor

Peer tutoring in a lower division chemistry course. Under the guidance and supervision of the course instructor, tutors will assist students in learning chemical concepts and in developing problem solving skills. Office hours and class attendance required. Course may be repeated for a maximum of 6 credit hours. (Offered occasionally.) Prerequisite: Consent of instructor

CHEM-3-90 Independent Research in Chemistry & Biochemistry

Analyses directed to the solution of a problems 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 Reading

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-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 3432. 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. (offered every Fall). Prerequisites: CHEM 3334, 3335, 3135.

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, bioanalytical, 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.

Classical Studies

Faculty

<u>Timothy O'Sullivan, Ph.D.</u>, Professor; Chair <u>Erwin Cook, Ph.D.</u>, T. Frank Murchison Distinguished Professor of Classical Studies <u>Nicolle Elise Hirschfeld, Ph.D.</u>, Professor <u>Thomas E. Jenkins, Ph.D.</u>, Professor; Director of the Collaborative for Learning and Teaching <u>Lawrence Kim, Ph.D.</u>, Professor <u>Corinne Ondine Pache, Ph.D.</u>, Professor

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

- Bachelor of Arts with a major in Ancient Mediterranean Studies
- Bachelor of Arts with a major in Greek
- Bachelor of Arts with a major in Latin
- Bachelor of Arts with a major in Classical Languages
- The Minor
- The Honors Program

- Language Skills
- <u>Classics Courses in English</u>

Ancient Mediterranean Studies

Requirements for a Bachelor of Arts with a major in Ancient Mediterranean Studies are as follows:

I. 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.

II. University requirements: completion of all other required elements of the Pathways curriculum and at least 124 credit hours.

Greek

Requirements for a Bachelor of Arts with a major in Greek are as follows:

I. 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 13 upper division hours of Greek. (Courses in Latin credited towards the Greek major may also be credited towards the minor in Latin.)

II. University requirements: completion of all other required elements of the Pathways curriculum and at least 124 credit hours.

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.

PLSI 3361	Classical Political Thought
RELI 3338	Greek Religious Experience
RELI 3353	The Gospels, Jesus, and Christian Origins
RELI 3454	The Letters of Paul
RELI 3455	Early Christian Literature Beyond the Canon
SPAN 3371	Introduction to Romance Linguistics
THTR 3335	Greek and Roman Drama

Courses

Classical 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 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-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

CLAS-1314 The Art of Losing: Death in Literature

This course examines the literature and art developed in answer to the loss of human life in ancient Greece, Japan, and modern Western culture. Themes will include: heroic deaths, the Underworld, facing death, love and death, ghosts and the undead, mourning and remembering. (Offered every other year).

CLAS-1315 Afterlives of Antiquity: Underworlds in The Western Tradition

In this course we trace an important, recurrent theme in the Western tradition, in which journey into the underworld, or katabasis, is closely linked to the encounters with the dead, or nekyiai. Each variation on that theme represents a way of asking, How might we respond to the fact of mortality, of death, in the immortal fictions of literature and art? Centering our study around the influential depiction of the underworld in Virgil's great epic, the Aeneid, we consider a wide range of authors and texts. (Offered every other year).

CLAS-1317 Classical Traditions in Science Fiction

In this course we explore how science fiction (SF), the genre perhaps most characteristic of the modern world, draws on and departs from ancient Greek and Roman literature, philosophy, myth, history, and art: in other words, how SF forms part of 'classical traditions' and constitutes a rich site for 'classical receptions,' both transmitting and transmuting ancient materials. Beginning with Mary Shelley's Frankenstein (1818), evoking antiquity in its subtitle, The Modern Prometheus, we consider a wide range of materials--mainly literature and film--from several theoretical perspectives in the fields of SF studies and Classics. Readings from modern authors including Kafka, Borges, Herbert, Le Guin, and Dick; ancient authors including Homer, Aeschylus, Lucretius, Ovid, and Lucian; and screenings from directors including Wilcox, Tarkovsky, Kubrick, Cronenberg, and Scott. (Also listed as CMLT 1317.)

CLAS-1318 Ancient Athletics: From Olympians to Gladiators

This course examines the sports and spectacles of ancient Greece and Rome through the close study of archaeological, artistic, and literary evidence relating to athletes, competitions, and festivals-e.g., ancient training facilities and performance spaces, statues, mosaics, coins, graffiti, inscriptions, and literary texts. The goal is a deeper understanding of the cultural values and practices associated with athletics in antiquity (including the

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influence of classical texts on modern constructions of sexuality; the links between the avant-garde of both the ancient world and the modern; the political uses and abuses of antiquity; and the production of 'camp.' The course also serves as an introduction to reception theory, a subfield of cultural criticism. 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. Prerequisites: Sophomore standing or consent of instructor.

CLAS-3407 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-3408 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-3409 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 literacy tradition and films. (Also listed as CMLT 3309.) Prerequisite: Sophomore standing or consent of instructor.

CLAS-3310 Antiquity and Diversity in Contemporary Literature

In this seminar, we explore how contemporary American literature articulates issues in diversity and identity via themes, stories, and images drawn from classical (Greek and Roman) antiquity. Far from being 'dead letters' belonging solely to 'dead white men,' the classics are important sources of inspiration and creativity--as well as controversy and debate--for authors representing diverse American identities today, including African-American, Latinx, LGBTQ, Native American, religious minorities, regional identities, and more. To consider diversity in such categories as race and ethnicity, social class, gender and sexuality, immigration, regional identity, and religion, we

focus on American literature since World War II, in connection with the most relevant ancient sources, in comparison with films, and in contexts of scholarship and criticism. (Offered every other year.) Prerequisite: Sophomore standing or consent of instructor; coursework in, or demonstrated knowledge of, classical or contemporary literature and relevant scholarly methods desirable but not required.

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, Adomo, 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.) Prerequisites: Sophomore standing or consent of instructor.

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-4398 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.

CLAS-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.

CLAS-4397 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: Approval of the department chair.

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-2402 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.

Greek - Upper Division

GREK-3401 Homer and Greek Epic

Selections from the Iliad and Odyssey. May also include other epic poets. Prerequisite: GREK 2402, 2303, or the equivalent.

GREK-3402 Attic Prose

Readings in Attic prose writers, especially Plato, Xenophon, and the orators. Prerequisite: GREK 2402, 2303, or the equivalent.

GREK-3403 Greek Drama

Readings from Greek drama. Prerequisite: GREK 2402, 2303, or the equivalent.

GREK-3404 Greek Historians

Readings in Greek historians, especially Herodotus and Thucydides. Prerequisite: GREK 2402, 2303, or the equivalent.

GREK-3405 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 2402, 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 2402, 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 2402, 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 2402, 2303, or the equivalent, and consent of the department chair.

Latin - Lower Division

LATN-1401 Elementary Latin I

3 class hours a week for 1 semester.

LATN-1402 Elementary Latin II

3 class hours a week for 1 semester. Spring. Prerequisite: LATN 1401 or the equivalent.

LATN-2301 Intermediate Latin I

3 class hours a week for 1 semester. Fall Prerequisite: LATN 1302 or the equivalent.

LATN-2302 Intermediate Latin II

Selections from Latin authors; emphasis on developing reading skills. (Offered every Spring.) Prerequisite: LATN 2301 or the equivalent.

Latin - 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 2302 or the equivalent.

LATN-3402 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 2302 or the equivalent.

LATN-3403 Latin Prose to 43 B.C.

Study of prose writers of the Late Republic, such as Caesar, Cicero, Nepos, or Sallust. Prerequisite: LATN 2302 or the equivalent.

LATN-3404 Lyric & Elegiac Poets

Selections in lyric and elegiac poetry, from authors such as Catullus, Horace, Ovid, Propertius or Tibullus. Prerequisite: LATN 2302 or the equivalent.

LATN-3405 Latin Prose from 43 BC

Study of prose writers from the Augustan Age onwards, such as Livy, Pliny, Tacitus, or early Christian writers. Prerequisite: LATN 2302 or the equivalent.

LATN-3406 Comedy & Satire

Selections in comedy and in satire, from authors such as Plautus, Terence, Horace, Juvenal, Martial or Petronius. Prerequisite: LATN 2302 or the equivalent.

LATN-3407 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 2302 or the equivalent

LATN-3408 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 2302 or the equivalent

LATN-3409 The Roman Novel

An intensive investigation of Petronius' Satyrica and Apuleius' The Golden Ass, with special attention paid to issues of genre, religion, gender, and influence. Prerequisite: LATN 2302 or the equivalent

LATN-3-90 Directed Studies

Individual work under supervisor in areas not covered by other courses. May be repeated 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 2302 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 2302 or the equivalent, and consent of the department chair.

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The Minor

The requirements for a minor in Comparative Literature are as follows:

- I. Two courses from each of the three categories below (A, B, and C), for a total of six courses.
- II. At least three of the total shall be upper division courses.

No more that 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

- 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
- 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 since 1700
- SPAN 3332 Introduction to Spanish American Literature
- SPAN 4331 Medieval Spanish Literature
- SPAN 4332 Spanish Golden Age Literature
- SPAN 4333 Don Quixote
- SPAN 4334 Nineteenth-Century Spanish Literature
- SPAN 4335 Hispanic Modernism
- SPAN 4336 Twentieth-Century Spanish Literature
- SPAN 4338 Spanish Women Writers
- 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
SPAN 4349	Sexualities in Literature and Film

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, German Studies courses listed as GRST, courses in American or British literature offered in the Department of English, and the course in American drama offered in the Department of Human Communication and Theatre. 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, FILM 2301, and ML&L 2301)	
CLAS 1305	Classical Mythology	
CLAS 1307	Gender and Identity in the Ancient World	
CLAS 1314	The Art of Losing	
CLAS 1315	Underworlds	
CLAS 3302	Greek and Roman Epic	
CLAS 3310	Antiquity and Identity in Contemporary Literature	
CLAS 3377	Reimagining Tragedy (also listed as THTR 3377)	
CLAS 3403	Greek and Roman Drama (also listed as THTR 3335)	
CLAS 3404	The Ancient Romance and Novel	
CLAS 3405	Antiquity and Modernity	
CLAS 3409	Epic Journeys	
COMM 2301	International Cinema (also listed as ARTH 2301, FILM 2301, and ML&L 2301)	
CMLT 1300	Introduction to Comparative Literature e	

CMLT 1300

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-3409 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 literacy tradition and films. (Also listed as CLAS 3409.) Prerequisite: Sophomore standing or consent of instructor.

CMLT-3416 Topics in Horror

This seminar will critically and creatively explore the horror genre (literature, film, and other forms of popular culture) from a thematic, interdisciplinary methodology. Through close analysis of primary texts and engagement with scholarly materials, students will examine how the horror genre uses both narrative structure and textual form to present and construct cultural and individual fears and anxieties about issues including identity, place, gender, race, class, and death. The production and performance of creative projects will feature as an integral part of the course analysis and discussion. Students are required to attend both the seminar portion and the accompanying lab (for film screenings and creative workshops). Specific topics (such as the home in horror, zombies, and crossed genres and remakes in horror) will be offered on a rotating basis. (Offered every other year.)

CMLT-3-90 Reading and Conference

Individual work under faculty supervision not covered by other courses. May be repeated up to six hours. Prerequisites: Completion of CMLT 1300 and approval of program chair.

Communication

COMM 3323	Environmental Communication in Asia	
COMM 3325	Special Topics in Communication Media	
COMM 3326	History of Mass Media	
COMM 3328	Media, Culture, and Technology	
COMM 3-98	Honors Readings	
COMM 4-90	Directed Studies in Communication	
COMM 4398, 4399	Honors Thesis	

Media Messages

COMM 3-40	Media Writing
COMM 3-41	Audio Communication
COMM 3-42	Visual Communication
COMM 3-43	Print Communication
COMM 3-44	Interactive Multimedia Communication
COMM 3-45	Media Communication Workshop
COMM 3-46	Video Communication

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 1194	Internship Experience
COMM 1110, 1120, 1121, 1122, 1130, 1131, 1140, 1150, 1160, 1170	Apprenticeship in Communication Media
COMM 3300	Media Management Practicum and Study

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-1123 Apprenticeship in Communication Center Media: KRTU Audio 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-1130 Apprenticeship in Communication Center Media: Digital Edi cey

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 permission of instructor.

COMM-3323 Environmental Communication in Asia

This class analyzes media discourses, including news media and social media, about prominent cases of pollution, clean up, or other issues related to the environment in an Asian country, such as China. Through such analysis, this class explores the relationships among the media, government, public, and environmental groups within the context of that particular country. It provides a close look at the country's environmental issues and how various social forces contest over the discourse of the issues. (Offered every other year.) 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. Prerequisites: 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-3-40 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

be offered for either 3 or 4 credit hours. (Offered every semester.) Prerequisite: COMM 2302

COMM-3354 Quantitative Research Methods

This course provides an overview of quantitative research methods and statistical analysis. Students will learn the basic elements of social scientific inquiry, including: 1) quantitative research design and methodologies; and 2) statistical analysis and hypothesis testing procedures. Students will display their knowledge by applying quantitative research methods to help understand and predict social phenomena . (Also listed as HCOM 2354.)(Offered every semester).

COMM-3357 Sport Media

This course will critically examine the relationsildindinOM

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.

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	Integrated Marketing Communications
MKTG 4381	Marketing Management

Human Communication Elective: 3 hours

BUSN 3311

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Computer Science

Faculty

Seth Fogarty, Ph.D., Associate Professor Albert Xin Jiang, Ph.D., Assistant Professor Matthew Hibbs, Ph.D., Associate Professor Thomas Hicks, Ed.D., Associate Professor Britton Horn, Assistant Professor Mark C. Lewis, Ph.D., Professor Berna Massingill, Ph.D., Associate Professor Paul Myers, Ph.D., Caruth Professor of Computer Science Sheng Tan, Ph.D., Professor; Chair

Overview

The department offers several programs designed to serve a range of student interests and needs:

- The Bachelor of Science in Computer Science is a four-year degree program intended to prepare students for either a career requiring a thorough background in the field or for graduate school. It is modeled to some extent on the curricular recommendations of the Association for Computing Machinery (ACM) and provides both considerable breadth and depth.
- Computing as a Second Major is also a four-year degree program, but one that (like the Interdisciplinary Second Major) cannot serve as a primary (stand-alone) major. It is intended for students whose primary interest is in another field but who also need or want thorough preparation in using computers. Such students will combine a primary major in the chosen field with Computing as a Second Major.
- The Minor in Computer Science is designed to provide students with elementary skills in computing as well as a substantial computing background for graduate studies in fields where computers have become primary research tools.
- The Minor in Management Information Systems is intended for business-oriented students and is designed to give them the technical background needed to manage and transmit information through the use of computers.

Requirements

Bachelor of Science in Computer Science
 Computing as a Second Major

- Minor in Computer Science
- <u>Minor in Management Information Systems</u>
- Senior Thesis
- Honors in Computer Science

Bachelor of Science in Computer Science

Requirements for the degree of Bachelor of Science with a major in Computer Science are as follows:

I. Departmental requirements: 49 credit hours including:

- A. Core Principles: CSCI 1120, 1320, 1321, 1323, 2320, 2321, 2322, 3320, 3321, 3322.
- B. Departmental Colloquium: Four semesters of CSCI 2094.
- C. Curricular Groups: At least three hours from each of the following groups:
 - i. Applications Group: CSCI 3311, 3342, 3343, 3344, 3352, 3353, 3366, 3-95
 - ii. Systems Group: CSCI 3323, 3-96
 - iii. Design Group: CSCI 3312, 3345, 3362, 3-97
- D. Capstone: One of the following options:
 - i. Senior Software Project: CSCI 4385 and 4386.
 - ii. Senior Thesis: CSCI 3398, 4398, and 4399 plus additional requirements listed in the section "Senior Thesis" below.
- E. Electives: Additional upper-division computer science hours sufficient to total at least 49 credit hours.

II. Mathematics requirement:

Six hours from the following: any MATH course (excluding 1301, 1310, 1330, 3194, 3195); CSCI 2324; PHIL 3340, 3343.

III. University requirements: completion of all other required elements of the Pathways curriculum and at least 124 hours.

Computing as a Second Major

The requirements for Computing as a Second major are as follows:

I. Completion of a first major from another department.

- II. Departmental requirements: 34 hours of computer science including:
 - A. Required courses: CSCI 1120, 1320, 1321, 1323, 2320.
 - B. Departmental Colloquium: two semesters of CSCI 2094.
 - C. 21 additional hours of computer science including at least 18 upper-division hours.

III. Mathematics requirement:

Six hours from the following: any MATH Course (except 1301, 1310, 1330, 3194, 3195); CSCI 2324; PHIL

Minor in Management Information Systems

The requirements for the Minor in Management Information Systems are:

I. Completion of a B.A., B.S., or minor in Business Administration.

- II. Departmental requirements: 16 hours of Computer Science including:
 - A. CSCI 1120, 1320, 1321, 2320;
 - B. Departmental Colloquium: one semester of CSCI 2094;
 - C. Two upper division Computer Science courses from the following list: CSCI 3311, 3321, 3342, 3343, 3345

Senior Thesis

Requirements:

I. Overall grade point average of 3.0 or better at the time the thesis option is selected.

II. Grade point average in computer science of 3.0 or better at the time the thesis option is selected.

III. Successful completion of CSCI 3398, and 4399 (normally taken in consecutive semesters beginning in the Spring semester of the junior year).

IV. Selection of a faculty committee consisting of a thesis chair chosen from the computer science faculty and two additional faculty members during the semester in which CSCI 3398 is taken.

V. A public formal presentation and defense of the thesis during the semester in which CSCI 4399 is taken.

Honors in Computer Science

To be eligible for the distinction of graduation with Honors in Computer Science the requirements are:

- I. Completion of the requirements for the Bachelor of Science in Computer Science.
- II. Completion of the requirements for the Senior Thesis described above.
- III. Grade point average of at least 3.33 or better in all courses prior to the semester of graduation.

IV. Grade point average of 3.33 or better in all computer science courses prior to the semester of graduation.

V. 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 deadline for submitting a thesis for departmental honors will be considered to have met the capstone requirement for the Bachelor of Science in Computer Science provided that they submit a completed thesis by the end of the semester.

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-1304 Computers and Society

An examination of the impact of computer technology on issues of society and culture. The course will contain

CSCI-1311 Introduction to Programming Logic

Introduction to the basics of computer programming and algorithmic thinking for non-science majors. The course focuses on the logic and problem decomposition skills that are critical for understanding computation. Use of a high-level programming language will stress creativity in problem solving using computation, and impart a hands-on understanding of the process of programming. The course will cover many of the most important concepts in programming and computer science, including choice, repetition, and abstraction. No prior experience in programming is necessary. This course assumes familiarity with high school algebra, geometry, and trigonometry.

CSCI-1312 Introduction to Programming for Engineering

Introduction to programming and algorithmic thinking, taught using tools that emphasize an understanding of the hardware. Top-down design and analysis of algorithms. Computer organization and data representation. Computer programming solutions to several laboratory exercises.

CSCI-1320 Principles of Computer Science I

Intended for Computer Science majors and others who need this specific course to meet requirements in other departments. The course is a concept--oriented introduction to programming and algorithmic problem solving principles. Topics include top--down design; searching and sorting strategies; recursion; computational complexity and analysis of algorithms; and t7 of computerion. CoA

Departmental Colloquium on research, professional issues, ethics, and other topics.

CSCI-2195 Competitive Programming

Approaches to algorithmic problem solving; practice with problems that are commonly found in programming competitions. Focuses on the languages and tools used in the annual ACM International Collegiate Programming Competition. May be taken a maximum of four (4) semester hours of credit. Prerequisite: CSCI 1320 or knowledge of programming

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. Prerequisite: 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. Prerequisite: CSCI 1321,CSCI 1120.

CSCI-2322 Principles of Functional Languages

An introduction to functional programming. Functional composition, recursion, and iteration. Procedure and data abstraction using functions. Managing state, streams, delayed evaluation, and continuations. Using functional languages as an analytic notation for reasoning about programs. Solution of several laboratory problems.

CSCI-2323 Scientific Computing

Numerical and text processing methods with problems chosen from the sciences and mathematics. Focuses on the general idea of how computational science has expanded the realm of what is possible in the sciences. Builds on basic programming knowledge to give students understanding and skills as to how computers are used in the sciences. Prerequisite: 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 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 the 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, 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 Principles of 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, memoization, 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/ me n-o

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-3345 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. Prerequisites: CSCI 2320, 3321 is recommended

CSCI-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 or ordinary differential equations. (Also listed as MATH 3351.) Prerequisites: CSCI 1321, MATH 3316.

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 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. Includes a significant group project that requires students to apply material learned in the course. Prerequisite: CSCI 2320, 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. Prerequisites: CSCI 2320

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-3-90 Directed Study

Credit will vary depending on work done. Prerequisites: CSCI 1323, 2320, and Junior standing

CSCI-3-93 Special Topics in Theory

Topics will vary depending on student and faculty interest. May be taken for a maximum of six (6)semester hours of credit. Prerequisite: CSCI 1321 and 1323, or consent of instructor.

CSCI-3-94 Seminar

Topics will vary depending on student interest. May be taken for a maximum of six (6) semester hours of 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. Prerequisite: CSCI 1321 and 1323, or consent of instructor.

CSCI-3-96 Special Topics Systems

Topics will vary depending on student and faculty interest. May be taken for a maximum of six (6) semester hours of credit. Prerequisite: 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 3321 is recommended

CSCI-3398 Thesis Reading

Independent study in selected areas in preparation for Thesis. Spring. Prerequisites: Junior standing, CSCI 1323 and CSCI 2320 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

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

Continuation of CSCI 4398. 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. Prerequisite: CSCI 4398 and Consent of Instructor.

East Asian Studies at Trinity

Faculty

<u>Stephen Lee Field, Ph.D.</u>, J. K. and Ingrid Lee Endowed Professor of Chinese Language and Literature, Modern Languages and Literatures; Director <u>Dan Lehrmann, Ph.D.</u>, Gertrude and Walter Pyron Professor of Geosciences <u>Zhaoxi Liu, Ph.D.</u>, Associate Professor, Communication <u>Randall L. Nadeau, Ph.D.</u>, Professor, Religion <u>Hyon Joo Yoo, Ph.D.</u>, Associate Professor, Political Science <u>Jie Zhang, Ph.D.</u>, Associate Professor, Modern Languages and Literatures <u>Shage Zhang, Ph.D.</u>, Associate Professor, Finance and Decision Sciences

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 inteeangua interans in an East

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	
EAST 2315	East Asian Heroes	
B. Civilization and History		
CHIN 2311	Chinese Civilization	
HIST 1320	History of China	

HIST 1324 Modern East Asia

C. Philosophy and Religion

PHIL 1302	Introduction to Asian Philosophy
CHIN 3428	The Philsophies of China (also listed as PHIL 3428)
EAST 2316	The Folk Ecology of Fengshui
PHIL 3428	The Philosophies of China (also listed as CHIN 3428)
RELI 1330	

BUSN 4364	Internationalizing Intellectual Property (also listed as CHIN 4364)
CHIN 3330	Global Business Culture (also listed as INTB 3330)
CHIN 3363	International Business Research (also listed as INTB 3363)
CHIN 4130	Quanqiu Shangwu Wenhua-Zhong-Mei Jiaodian (Global Business Culture) (also listed as BUSN 4130)
CHIN 4362	International Branding (also listed as INTB 4362)
CHIN 4364	Internationalizing Intellectual Property (also listed as BUSN 4364)

III. Completion of at least one semester abroad in a Chinese-speaking country.

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 History and Literature

ARTH 1310	Introduction to Asian Art: China
ARTH 1311	Introduction to Asian Art: Japan
EAST 2315	East Asian Heroes

A. Completion of 12 credit hours of upper division language and literature courses taught in the target language.

CHIN 3401	Advanced Chinese I	
CHIN 3402	Advanced Chinese II	
CHIN 4130	Global Business Culture	
CHIN 4310	Advanced Conversation and Composition I	
CHIN 4311	Advanced Conversation and Composition II	
CHIN 4321	Topics in Modern Chinese Literature	
CHIN 4322	Readings in Contemporary Chinese Cinema	
Or similar coursework in an approved study abroad program in an East Asian country		
B. Completion of 6 semester hours of upper division electives taught in English		

CHIN 3320

PLSI 3343	Chinese Foreign Policy (also listed as CHIN 3343)
RELI 3433	Chinese Religions: Unity and Diversity (also listed as CHIN 3433)
RELI 3434	Japanese Literature of the Spirit World

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:

- I. Completion of the fourth semester of an East Asian language, or its equivalent, with a grade of C or better.
- II. 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

EAST-2315 East Asian Heroes

This course Introduces literary works that have contributed to discourses about heroes in contemporary East Asia. We will study how the portrayals of heroes reflect historical, social, and cultural changes. Classical and early modern literary texts are analyzed in the contexts of contemporary cultural products. Discussions focus on how narratives of heroes have been one of the most indispensable sources for the construction of political and cultural identities. We also examine how narratives about heroes have evolved to express historically and culturally specific experience and agendas. (Offered every year).

EAST-2316 The Folk Ecology of Fengshui

This course will survey the environmental history of China, then will delve into the theory and practice of both Form School and Compass School fengshui, and finally will analyze the proposition that fengshui is a type of "folk" ecology. (Offered every other year)

Economics

Faculty

Dennis Ahlburg, Ph.D., Professor Nels Christiansen, Ph.D., Associate Professor John H. Huston, Ph.D., Professor David A. Macpherson, Ph.D., E. M. Stevens Professor; Chair Shana McDermott, Ph.D., Assistant Professor Maria Pia Paganelli, Ph.D., Professor Ricardo Manuel Santos, Ph.D., Associate Professor Roger Spencer, Ph.D., Vernon F. Taylor Distinguished Professor Richard Salvucci, Ph.D., Professor Edward J. Schumacher, Ph.D. This concentration emphasizes mathematics and economics theory. It is recommended as the appropriate preparation for Ph.D. programs in economics.

Departmental Requirements:

1. 30 credit hours in Economics, including:

ECON 1311, 1312, 3325, 3326, 4365, 4367, and 4370;

2. MATH 1311, 1312, 2321, 3316 or 3323, 3326, 3334, 3335, and 3360. (This combination satisfies the requirements for the minor in mathematics.) In addition, MATH 3338 and CSCI 1320 are strongly recommended.

C. Concentration in Economics and Law

This concentration stresses the application of economic theory to questions of the legal and social policy. It is especially appropriate for those planning to enter law school.

Departmental Requirements:

- 1. 30 credit hours in Economics, including ECON 1311, 1312, 2301, 3325, 3326, and 3339. (MATH 1320 or 3335* may be substituted for ECON 2301.)
- 2. ECON 3330 or 3335 or 3356.
- 3. 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, PLSI 3351);
 - b. An appropriate course in logic, writing, or speech communication (e.g., ENGL 3314, HCOM 1333, PHIL 1341);
 - c. A course that views the law from a perspective other than that of economics (e.g., PHIL 3453).

Recommended: Math 1311

D. Concentration in Economics and Business

This concentration is a liberal arts curriculum desig	vi	desig	vi	h	Reco
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- b. ECON 3329 or 3362;
- c. ECON 3335 or 3328 or 3356;
- d. ECON 3347 or 3348 or 3361.
- 2. 18 credit hours outside Economics, including:

ACCT 1301, BUSN 3302, BAT 2302, MKTG 2301, FNCE 3301, and MGMT 2301.

Recommended: MATH 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:

A. 33 credit hours in Economics, including:

1. ECON 1311, 1312, 2301, 3325, 3326, 3347, and 3348. (MATH 1320 or 3335* may be substituted for ECON 2301.)

- 2. ECON 3340 or 3341 or 3342 or 3343 or 3361.
- B. Three upper division credit hours in a modern foreign language.
- C. Two courses, approved by the adviser, that emphasize current sociopolictical 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 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:

A. 33 credit hours of Economics including:

- 1. ECON 1311, 1312, 2301, 3325, 3326, 3347, and 3348. (MATH 1320 or 3335* may be substituted for ECON 2301.)
- 2. Two of ECON 3334, 3335, 3328, and 3339 (with approval of the adviser, ECON 3340 or 3347 may be subsituted for one of these).
- B. A course taught by the case method of instruction (e.g., BUSN 3302, PLSI 3351).

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

Economics - 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-2310 Adam Smith's Wealth of Nations

By exploring Adam Smith's An Inquiry into the Nature and Causes of the Wealth of Nations (1776), this course will evaluate Smith's leading theories regarding the economy, government, and society and will test these theories against our contemporary understandings. The course will engage such questions as, What is wealth? What is an empire? What are the proper functions of government?

Economics - Upper Division

ECON-3115 Economists in the Elementary Schools

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. Prerequisite: ECON 1311 or one of the Education Practicum courses (EDUC 2201, 2202, or 2203) and consent of instructor

ECON-3116 Economists in the Middle Schools

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. Prerequisite: 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.

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. Prerequisite: ECON 1311. Cannot be taken for credit by students who have taken ECON 3347 or 3348 or 3361.

ECON-3320 Strategies and Games

An introduction to strategic thinking and the basic concepts of Game Theory, according to which a participant's action depends critically on the actions of other participants. The course emphasizes the application of those concepts in a wide variety of areas, including finance, management, marketing, law, political science, biology, anthropology, and psychology. Topics include but are not limited to games with perfect information, games with asymmetric information, auctions, uncertainty and risk, and evolutionary stable strategies. Prerequisites: ECON 1311 and sophomore standing or permission of the instructor

ECON-3323 The Economics of Government

Microeconomics 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 the 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-3327 Sports Economics

The utilization of economic methods to study sports. The economic tools employed come from the fields of labor economics, industrial organization, public finance, fame theory, and econometrics. Particular attention will be paid

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

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

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-3366 The Globalized Economy: America and Japan in the 21st Century

The course examines issues such as the interconnection between politics and economics, globalization, multinational corporations, tariffs, free trade agreements and the World Trade Organization, economic development, world financial market crisis, East Asian socioeconomic issues, the Japanese economy, the creation of wealth, and rising economic inequality. All of these issues are essential for an understanding of life in the 21st century, and they are all particularly salient in Japan and the United States of America. The course will also compare marketing and management paradigms in both countries, as well as a description of Japanese lean manufacture production models. (Offered every year). (Also listed as BUSN 3366.) Prerequisite: Consent of Instructor

ECON-3367 Comparative Views of Modern China

This course represents an overview of the most important economic relationship of the twenty-first century. The global financial crisis that started in 2008 revealed just how much the strategic relationship between China and the United States represents the heart of the world's economy. China has recently surpassed Japan to become the world's second largest economy and America's third largest commercial partner. The rise of China has brought about a reorganization of the global economy and the international balance of power. This new world order carries challenges and opportunities. China remains a communist country with a significant legacy of a command economy. It is also a market economy. Understanding this mixture - capitalism with Chinese characteristics or the Chinese variety Capitalism - is the major aim of this course. We also cover topics relevant to the economic relationship between China and the USA, including international trade and the balance of trade, the Chinese surface, the Chinese surface, the Ghinese surface, the Ghinese surface, the Ghinese surface, the Ghinese surface and the growth of China and its growing influence in the international sphere. (Also listed as URBS 3367, CHIN 3367, and BUSN 3367.)

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 a typical Economics course 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 Practica profesional en Espana (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

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 2301 (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-4-98 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.

cohort-based and consists of a summer and two semesters, where, upon successful completion, students will earn a Master of Arts in Teaching degree as well as state certification.

Master of Education in School Leadership

The School Leadership program is designed to prepare candidates as innovative and transformational school leaders of elementary, middle, or high schools in today s school settings. Emphasis is given to the development of the knowledge, skills, and dispositions required of school leaders in a rapidly changing educational context. Candidates will pursue courses in school leadership, instructional leadership, school law and policy, as well as courses in management, finance, design, and innovations in teaching and learning. An extensive, school-based clinical practice experience will be provided in partnership with the candidate s local school district. The Master of Education degree in School Leadership may be earned by completing 36 credit hours. Upon completion of coursework, clinical practice, and the requisite state certification exam, students will receive Texas Principal certificate.

Master of Arts in School Pyschology

Trinity University offers a three-year, 60-credit-hour program in School Psychology that prepares graduates to work in schools helping students succeed academically, socially, and emotionally.

Licensed Specialists in School Psychology (LSSPs) are responsible for collaborating with educators, parents, and other professionals to create safe, healthy, and supportive learning communities for all students. The Trinity School Psychology Program addresses knowledge, skills, and experiences in the areas of student evaluation, intervention, and counseling. Consultation and collaboration with parents and teachers is also an important focus of the program. Graduates are prepared to collect and compile data to assist in educational decisions at multiple levels from individual student to the larger class and school environments.

Military and Experience Policy

In accordance with 19 TAC 228.35(a)(5), the Department of Education at Trinity University evaluates, and may accept, military service, training, or education toward fulfillment of program prerequisite admission requirements.

designed for students who are preparing to become teachers or who are interested in teaching English abroad or pursuing service opportunities such as the Peace Corps or City Year.

I. Core Courses for the Minor: (6 hours)

EDUC 1331	Understanding Learners with Exceptionalities in School and Society
EDUC 3320	Child and Adolescent Development

II. Plus two courses in either English as a Second Language (ESL) or Special Education:

A. ESL Concentration: (6 hours)

EDUC 3344	Teaching in the Bilingual Classroom
EDUC 3345	Principles and Practices for Teaching English Learners

B. Special Education Concentration: (6 hours)

EDUC 3332	Reading Difficulties with Diverse Populations
EDUC 3330	Teaching Students with Learning and Behavioral Problems

III. Students will then select 3330

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EDUC 3342

- VII. Written essay completed at the time of the interview.
- VIII. Demonstration of deep content knowledge via transcript review and/or exam scores. Depending upon the strength of a candidate s content preparation in his/her proposed teaching field, the university may request that a candidate take the TExES exam for his/her respective content teaching area to demonstrate the content area proficiency required by the State of Texas for teaching certification.If accommodations are required for any part of the application process due to a special learning need, please provide documentation to the Education Department in advance so that appropriate arrangements can be made.Please note that all candidates admitted to the M.A.T. program will be required to pass a criminal background check with the local school district in which they will intern before receiving an internship placement. Failure to pass this background check will result in the candidate s dismissal from the program since significant coursework is required to be completed within the assigned school setting. As part of the admission process, candidates will be asked to sign a statement indicating their understanding of this requirement.

All application materials will be reviewed by the Council on Teacher Education, a multi-disciplinary university committee that serves as the admission decision-making body for the Master of Arts in Teaching program.

Admission to the Master of Education in School Leadership

Interested candidates must receive an initial recommendation from their respective school district or charter organization in order to apply for the program. Once recommended, candidates will complete the online application for graduate studies, including the provision of letters of recommendation, GRE scores (if applicable), and an official transcript. All candidates will be scheduled for a phone interview with a panel of assessors. Candidates who demonstrate a readiness for leadership in the program will then be invited to participate in a daylong leadership simulation held at the university. Once all elements of the admission process are completed, the twenty members of the cohort will be selected, in partnership with their nominating district/charter organization, and offered admissions to the program.

Admission to the Master of Arts in School Psychology

Applicants to the School Psychology Program are expected to have the following:

A bachelors degree from an accredited college or university. An undergraduate major of psychology or

- Strong academic and professional references (three required).
- An interview with the Program Director.

Applicants must complete an on-line application, submit all required material, and participate in an interview (either on campus or by telephone if out of state) by February 1st for admission to the class beginning in August.

Application for Certification

It is necessary to apply for a Texas teacher certificate through the Texas Education Agency upon completion of the Master of Arts in Teaching program. This process will be facilitated by the Director of Certification in the Department of Education. Application for certification must be made during the semester in which the student will complete degree requirements.

All Teacher and Administrator Preparation Program graduates applying for state certification must pass proficiency tests and the TExES examinations in their fields of certification, and pay all applicable fees related to state certification. Candidates in the School Psychology program are required to take and pass the Praxis examination in order to complete their national accreditation.

Certification for Elementary Education

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
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
HIST 3388	Methods of Instruction in History
HCOM 3360*	Small Group Communication
HCOM 3372*	Intercultural Communication
MUSC 2361	Music in Childhood
MUSC 2362	Music in Early Childhood

- C. Technology Applications: CSCI 1300 or equivalency (required).
- D. Minor in Teaching and Learning (Secondary Pathway) is highly recommended but not required.

II. Teaching Fields/Area of Certification

Students seeking secondary certification (grades 7-12 or EC-12 depending on the state certificate) will be certified in one or more teaching fields (the content area) 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 (and additional courses where noted) forms the basis of the requirements for the teaching field and prepares students for the certification content exam. Students may complete more than one major (with any additional content area requirements) in order to attain certification in more than one area. Students need at least one teaching field from among the certificate fields listed below as well as the required education coursework. Trinity only offers certification in the fields listed. Students with a major other than their intended teaching field should speak with a faculty member about certification options.

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.

Certification Areas:

- Art EC-12 Certification
 - Art Major, including ART 2470; two (2) of the following courses: 3330, 3340, 3350, 3-60, 3472 or 3380
- Chinese Early Childhood Grade 12 Certification
 - Chinese Studies Major
 - All language candidates must pass an oral proficiency exam given by the Education Department for program admission.
- Chemistry 7-12 Certification
 - Chemistry Major, plus EDUC 3342
- Computer Science 8-12 Certification
 - Computer Science Major, including CSCI 3343 (Note: CSCI 1307 is required of all candidates for certification, including Computer Science candidates.)
- English Language Arts and Reading 7-12 Certification

English Major, including ENGL 3346 and EDUC 4338. ENGL 3304, GNED 3328, ENGL j R

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

• Physics/Mathematics 7-12 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

• Social Studies 7-12 Certification

Select from one of the following options:

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*, 3117) [ECON 2301 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 2301 and 3117

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, 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*, 3117) [ECON 2301 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*, 3117) [ECON 2301 and one (1) upper division economics course are recommended]

Plus Political Science (PLSI 1301* and 1331*)

Plus URBS 1316/SOCI 1316 (Human Geography) or PYSC 1300*

- Spanish Early Childhood Grade 12 Certification
 - Spanish Major, including SPAN 3311 or 3312*
 - All language candidates must pass an oral proficiency exam given by the Education Department for program admission.
- Speech 7-12 Certification
 - Human Communication Major, including HCOM 1333, 3330, 3360* or 3362, 3372*, 4350, 4-80
- 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.

Certification for All-level Music

(Early Childhood-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. 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.

II. Music major, including

year.

II. English as Second Language (ESL)

Students may add a supplemental certificate in English as a Second Language by completing the following undergraduate courses: EDUC 3344, and EDUC 3345 and specialized courses during the graduate year.

Students seeking elementary or secondary certification are encouraged to pursue Special Education and/or ESL supplemental certification. In secondary, the supplemental certificate attaches to the content area certificate.

Fifth Year Graduate Course of Study

The fifth year of the M.A.T. program consists of a summer session and two semesters (30 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

I. During the graduate year of study, students in general education will complete the following: Summer: EDUC 5350, 5351; Fall: 5339, 5360, 5661; Spring: 5263, 5352, 5763.

II. During the graduate year of study, students pursuing a general education and a supplemental Special Education certificate will complete the following: Summer: EDUC 5350, 5351; Fall: 5339, 5360, 5661; Spring: 5263, 5340, 5464, 5352, 5337.

Those students seeking Secondary Certification

I. During the graduate year of study, students in general education will complete the following: Summer: EDUC 5350, 5351; Fall: 5339, 5370, 5671; Spring: 5273, 5352, 5773.

II. During the graduate year of study, students pursuing a general education and a supplemental Special Education certificate will complete the following: Summer: EDUC 5350, 5351; Fall: 5339, 5370, 5671; Spring: 5273, 5340, 5474, 5352, 5337.

Those students seeking Certification All-Level Music

During the graduate year of study, students in general education will complete the following: EDUC 5339, 5349, 5350, 5351, 5346, 5647, and 5948.

University program meets the certification and licensure requirements by states that have adopted NASP standards such as Texas.

The course of study includes:

EPSY 5379	Psychological Assessment: Cognitive and Academic II
EPSY 5380	Biosocial Basis of Behavior and Emotion
EPSY 5381	Human Development and Learning
EPSY 5382	Psychological Assessment: Cognitive and Academic I
EPSY 5384	Behavior Management and Special Education
EPSY 5385	Research Methods I Advanced Statistics
EPSY 5386	Psychological Assessment: Emotions and Personality
EPSY 5187	Emotional/Personality Assessment Lab
EPSY 5388	Neuropsychological Assessment and Remediation
EPSY 5389	Counseling Theory and Methods
EPSY 6380	Consultation Theory and Methods
EPSY 6381	Research Methods II: Design and Application
EPSY 6382	Group and Family Interventions
EPSY 6185	Developmental Assessment Lab
EPSY 6385	Developmental Assessment: Infants and Young Children
EPSY 6386	Supervised Practicum School Psychology
EPSY 6388	Legal and Ethical Issues
EPSY 6183	Interventions Lab
EPSY 6384	School Psychology Practice
EPSY 5390	Educational Administration and Organization
EPSY 7380	School Psychology Internship: Part I
EPSY 7381	School Psychology Internship: Part II
EPSY 6389	(Optional Elective) Psychological Assessment II: Emotions and Personality Advanced

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 required.

EDUC-1310 Seminar in Urban Education Policy and Practice

This seminar focuses on critical issues involved in urban education in America. The course will introduce students to a broad framework for considering educational equity and accountability that includes schools, teachers, students, parents and community, government, and the broader society. The class will feature field experiences and dialogue introducing students to the primary policy debates in urban education including: the Elementary and Secondary Education Act, school desegregation and re-segregation, charter schools, assessment and evaluation, teacher quality, the dropout problem, and culturally responsive teaching. School Visits and field site research will be integral course activities. (Offered every Fall.)

EDUC-1331 Understanding Learners With Exceptionalities in School and Society

An introduction to the causes, characteristics, strategies, trends, and issues in teaching students with exceptionalities. Identification, assessment, and instruction for learners with exceptionalities, including English Language Learners, are discussed. Students will engage in studies of human exceptionality and explore the legal and theoretical foundations for supporting diverse learners. Students will learn about planning and providing instruction that is differentiated, inclusive, and incorporates universal design principles, technology and instructional tools with appropriate accommodations, modifications, and interventions. This course includes a field placement working with students with exceptionalities in a range of educational and community settings. (Offered every semester).

EDUC-2201 Practicum: Early Childhood Teaching Exploration

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 early childhood classrooms. (Offered every Spring).

EDUC-2202 Practicum: Secondary Teaching Exploration

This course provides an exploration in secondary teaching and a foundation for continued study in the Master of Arts in Teaching program. It focuses on adolescent learners and their development, as well as teacher and school best practices. The course provides experiences in secondary classrooms and schools. (Offered every Fall).

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 prekindergarten 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 in Elementary Literacy

A study of literacy learning and instruction in the elementary school that integrates theory (seminars) and practice (field experiences). (Offered every Fall). Prerequisite: EDUC 2201.

EDUC-3302 Secondary Field Seminar

A study of innovation and best practice in secondary school teaching and organization. The course integrates theory (seminars, reading and research) with practice (school and classroom experiences). (Offered every Spring).

EDUC-3320 Child and Adolescent D	in Teaching pr	hing	in Teac	Teaching prand fig
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to effective schools and successful teaching and learning practices.

EDUC-3330 Teaching Students With Learning and Behavior Problems

The purpose of this course is to develop skills and knowledge relative to providing instruction, interventions, and leadership in curricular and instructional methods and strategies appropriate for use with individuals who exhibit learning and behavior problems. Issues and trends in the identification, systems, and assessment of students with learning and behavior problems will also be addressed. This course includes a 20-hour field experience, where emphasis is placed on learning about strategies and specialized methods of instructing students with learning and behavior differences. (Offered every Fall).

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. Prerequisite: EDUC 1331

EDUC-3333 Positive Behavioral Supports for Students With Challenging Behavior

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-3335 Reading Difficulties With Diverse Population 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 1331

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EDUC-3341 Teaching Science in Elementary School

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. (Offered every Spring).

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 CLAC 3344.)

to 3 credits with different school-based placements. (Offered every semester). Prerequisite: EDUC 3302

EDUC-4338 Teaching Reading in Secondary Schools

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. (Offered every Fall).

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

management, and interaction with teachers, administrators, and aides. On-site observation and participation. Fall semester.

EDUC-5337 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-5338 Teaching Reading in the Secondary Grades II

Advanced study of literacy and reading in Grades 6-12 with an emphasis on the development of reading and writing processes, as well as teaching reading in the content area. EDUC 5038 is a prerequisite. Prerequisite: EDUC 5038

EDUC-5339 Teaching Diverse Learners

This course examines programming and instructional strategies to facilitate effective instruction of 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-55401AdAahced Sech Section Speecial Spassing Red pup a ditans, s II

This course supplements M.A.T. interns' clinical practice for those pursuing supplemental certificates in specialeducation and/or English as a second language (ESL cplem concorpo thce-Special Education

A supervised internship in music education in the elementary, middle and high schools.

EDUC-5948 Advanced Clinical Practice in Music

An independent, but supervised, internship in music education in the elementary, middle, and high school. Prerequisite: EDUC 5647.

EDUC-5349 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-5350 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

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-5661 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. To be taken concurrently with EDUC 5360.

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 5763 or EDUC 5464.

EDUC-5763 Advanced Clinical Practice: Early Childhood - Grade 6

An internship in elementary school sites where students assume full responsibility for teaching and classroom

EDUC-5273 Graduate Intern Seminar: Secondary

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 5773 or EDUC 5474.

EDUC-5773 Advanced Clinical Practice: Secondary

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-5474 Advanced Clinical Practice: Secondary

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-5387 Independent Study: Problems in Practice

This course will help students to link theories of school leadership with actual administrative 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-5636 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. Activities will include on-site observation and participation. Students will spend extended time in two different field placements.

EDUC-5-99 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. Prerequisite: Approval of advisor and instructor.

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.

ELED-5396 Problems in Administration

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ELED-6394 Systems Design & Implementation

This course is designed to introduce a variety of school design and redesign structures and processes to equip prospective principles with a diverse set of tools to use in school transformation work. Topics will include: design thinking, principles of strategic planning, systems thinking and system dynamics, research related to school turnaround, and developing an entrepreneurial stance regarding school system design and redesign.

ELED-6395 Innovation in Teaching and Learning

This course is designed to engage school leadership candidates in an exploration of the current models of innovation that are most prevalent in the field of education. Topics may include: computer-mediated curriculum, blending learning, global education, "classrooms without walls", expeditionary learning, and other evolving educational models. Students will visit, in person or virtually, a variety of these models and analyze the strengths, challenges, and possible impact of the innovations in the maximizing of student learning.

Master of Arts in School Psychology

EPSY-5379 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

EPSY-5380 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.

EPSY-5381 Human Development and Learning

graphing, and development conclusions will be conducted throughout the semester. Must be taken in conjunction with EDUC 5381.

EPSY-5382 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.

EPSY-5378 Ethics, Standards and Procedures in School Psychology

This course is the introductory course to the School Psychology Program. Students will acquire knowledge of school psychology professional roles, ethics, standards, laws, rules and regulations, and historical foundations of the profession. Students will engage in projects, class discussions, research and presentations to learn and apply foundational knowledge for the practice of school psychology. (Offered every Fall.)

EPSY-5183 Cognitive Academic Assessment Lab

Practice in the administration and scoring of mental abilities tests. Course must be taken in conjunction with EDUC 5382.

EPSY-5384 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.

EPSY-5184 Behavior Management Intervention Lab

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.

EPSY-5385 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.

EPSY-5386 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.

EPSY-5187 Emotional/Personality Assessment Lab

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.

EPSY-5388 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.

EPSY-5389 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.

EPSY-6378 Interventions and Multi-Tiered Systems of Support

The course covers a range of prevention and intervention strategies for children and adolescents to address academic and behavioral concerns in their developmental contexts such as family, peer, school and community. Students will learn to critically evaluate evidence based practices and techniques for assessing the effectiveness of interventions. In addition, students will review the basic academic instruction strategies for reading, math and writing and social emotional learning. Students will explore the role of the school psychologist in a multi-tiered system o nteriou sychotudcal dily, ep st assessing the can,otudm amtationriou -ss

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.

EPSY-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.

EPSY-6389 Psychological Assessment Ii: Emotions And Personality Advanced

This course builds upon information and work in EDUC 5386 Psychological Assessment: Emotions and Personality and EDUC 5187 Emotional/Personality Laboratory. Graduate students participate in an advanced study and application of several instruments utilized to assess emotional functioning and personality characteristics in children and adolescents. Administration, scoring, and interpretation of these assessments are taught and applied in several cases. Recommendations for school and family settings are also included. (Offered every Fall.) Prerequisites: EDUC 5386 and 5187

EPSY-6390 Multicultural Issues in School Psychology

The course will provide students with the opportunity to develop a multicultural awareness as they explore the impact of an increasingly diverse society in the United States. Particular emphasis will be placed on gaining self-awareness around issues of cultural diversity. The course is designed to help professionals in educational settings (as well as other settings) have a knowledge base for working more effectively with children and adults of varying cultural backgrounds. Students will become familiar th chetudents wit sueds. Stuu ill bnd

<u>English</u>

Faculty

Victoria Aarons, Ph.D., Professor; O.R. & Eva Mitchell Distinguished Professor of Literature Peter H. Balbert, Ph.D., Professor Jenny Browne, M.F.A., Associate Professor Kelly Grey Carlisle, Ph.D., Associate Professor Duane Coltharp, Ph.D., Associate Professor; Associate Vice President for Academic Affairs Michael R. Fischer, Ph.D., Janet S. Dicke Professor of Public Humanities Andrew Kraebel, Ph.D., Assistant Professor Andrew Porter, M.F.A., Professor David Rando, Ph.D., Professor Willis Salomon, Ph.D., Associate Professor Kathryn Santos, Ph.D., Professor; Associate Vice President for Academic Affairs Claudia Stokes, Ph.D., Professor; Chair Betsy Winakur Tontiplaphol, Ph.D., Associate Professor

Requirements

- The Major
- The Minor
- The Minor in Creative Writing
- The Senior Thesis and Honors Program

The Major

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

I. Departmental requirements

A. Thirty-nine (39) hours in the Department of English

ENGL 2301	British Literature: Old English to 1800
ENGL 2302	British Literature: 1800 to the Present
ENGL 2303	American Literature: Colonization to 1900
ENGL 2304	American Literature: 1900 to the Present
and	
ENGL 2311	Literary Methods

C. Additional requirements:

At least twenty-seven (27) hours of ENGL courses, including:

- At least two (2) upper-division courses covering literary periods before 1800; Courses pre-1800 include: 3456, 3457, 3460, 3470, 4401, 4402, 4403, 4404, 4419, 4420, 4421, 4460.
- At least two (2) upper-division courses covering literary periods after 1800; Courses post-1800 include: 3427, 3429, 3466, 3471, 3472, 3475, 3480, 3481, 3484, 4422, 4423, 4425, 4427.
- At least three (3) additional elective ENGL courses, two (2) of which must be upper-division courses. Acceptable lower-division ENGL elective courses include the following: 2301, 2302, 2303, 2304, 2308, 2401, 2402, 2403. No more than one (1) of the three (3) elective courses may be in creative writing.

II. University requirements: completion of all other required elements of the Pathways curriculum and at least 124 credit hours.

The Minor

A minor in English consists of a minimum of twenty-one (21) credit hours of English, of which at least twelve (12) credit hours must be upper-division.

The Minor in Creative Writing

The minor in Creative Writing consists of a minimum of Twenty-one (21) credit hours from the following list of courses, with a maximum of two (2) courses in literature and with a maximum of two (2) courses in Communication.

ART 2468 Bookbinding COMM 3340 Media Writing: Magazine Writing COMM 3340 Media Writing: Scriptwriting COMM 3340 Media Writing: Digital Journalism COMM 3343 Print Communication COMM 3-46 Video Communication: Narrative Video Production COMM 3-46 Video Communicaton: The Video Essay THTR 3360 Playwriting THTR 4-92 Special Topics in Performance: Advanced Playwriting ENGL 3401 Non-Fiction Writing ENGL 3402 Fiction Writing ENGL 3403 Poetry Writing ENGL 3411 Advanced Non-Fiction Writing ENGL 3412 Advanced Fiction Writing ENGL 3413 Advanced Poetry Writing ENGL 3-16 Writing Internship ENGL 3-17 Experiential Learning in Editing and Publishing ENGL 3-90 Directed Studies Junior Level ENGL 4-90 Directed Studies Senior Level

ENGL 3475 Postmodern Literature*

ENGL 4305 Topics in Creative Writing

ENGL 4423 Studies in American Literature: The American Short Story*

GNED 2340 Creative Thinking and the Artistic Process

GRST 3311 Fairy Tales

ML&L 3350 Genres in Creative Writing

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. ENGL 4305 may be taken and applied toward the minor more than once as long as the topic of the course varies.

*This course is considered a literature course

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:

- I. Maintain an overall grade point average of at least 3.33.
- II. Maintain a grade point average of at least 3.5 in English.
- III. 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.
- IV. Complete ENGL 4398 and 4399 with a grade of A.

confer departmental Honors.

A full description of the Honors program is available in the English department office.

Courses

ENGL-1302 Writing Workshop

A cou0 **doct**Ourse 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,

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-2306 Advanced Placement I

Students entering with a score of 4 or higher on the Advanced Placement Literature and Composition examination or a 6 on the Higher-Level International Baccalaureate English exam will receive credit for this course.

ENGL-2307 Advanced Placement II

Students entering with a score of 5 on the Literature and Composition examination or a 7 on the Higher-Level International Baccalaureate English exam will receive credit for this course. These credits are in addition to the credits received for ENGL 2306, for a total of 6 credits.

ENGL-2308 The Literary Imagination

This course introduces students to a variety of topics in the study of literature. Individual offerings emphasize historical, thematics, or genre approaches to reading and writing about literary texts (consult appropriate Class Schedule for details). Prerequisite: First- or Second-year status is required, or consent of instructor.

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. Prerequisites: At least one ENGL course at 2000-level or higher.

ENGL-2315 Advanced Writing for the Professions

An introductory writing course designed to provide students with the skills, knowledge, and techniques necessary for them to write clearly and effectively in professional settings. This course is open to students from all majors and programs.

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, THTR 2340, GNED 2340 and MUSC 2340.)

ENGL-2373 African American Literature

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-2401 Introduction to Non-Fiction Writing

Study in the theory, technique, and practice of non-fiction writing.

ENGL-2402 Fiction Writing

Study in the forms of fiction with a primary focus on writing the short story.

ENGL-2403 Poetry Writing

Study of the theory, techniques, and practice of poetry writing.

ENGL-3161 Early Book and Manuscript Lab

In this humanities lab, students undertake substantial original research in premodern and early modern literature. Students will learn how to transcribe and edit previously unpublished manuscripts and early print material and prepare their work for electronic publication. May be repeated for up to six credit hours. (Offered every semester.)

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-3414 Advanced Exposition and Argument

Intensive writing workshop concentrating on individual projects and focusing on the traditional rhetorical principles of invention, structure, and style. (Offered every Spring). Prerequisite: at least one ENGL course at the 2000-level or higher

ENGL-3-16 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-3-17 Experiential Learning in Editing and Publishing

Directed consideration of issues in literary and scholarly publishing, including acquisitions, editing, production, indexing, or design. Student will work with a faculty member on the production of a monograph, collection, or journal issue. (Offered every semester)

ENGL-3427 Contemporary Literature

Selected studies in contemporary literature in English and English translation. May be repeated for up to 8 hours when topics vary. (Offered every semester).

ENGL-3429 Jewish Literature

A survey of major Jewish literary figures, including Kafka, Babel, I.B. Singer, Sholem Aleichem, Philip Roth, Bellow, Malamud, Paley, and Wiesel, in response to Jewish literary and cultural traditions, rooted in Hebrew scripture. Prerequisite: At least one ENGL course at the 2000 level or higher

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: At least 1 ENGL course at the 2000 level or higher.

ENGL-3440 Nineteenth-Century British Literary Culture

A study of nineteenth-century British literature within particular cultural and historical contexts. Subjects may include the city, medicine, visual arts, and performance history. This course counts toward the Interdisciplinary Cluster "The Spirit of Our Age: Nineteenth Century Science and Culture." (Offered every other year). Prerequisite: at least one ENGL course at the 2000-level or higher

ENGL-3441 Nineteenth-Century American Literary Culture

A study of nineteenth-century American literature within particular cultural and historical contexts. Subjects may include religion, gender, class, and race. This course counts toward the Interdisciplinary Cluster "The Spirit of Our Age: Nineteenth Century Science and Culture." (Offered every other year). Prerequisite: at least one ENGL course at the 2000-level or higher.

ENGL-3346 History of the English Language

Traces the history of modern English varieties of language from the their common Indo-European origin. Emphasis upon the relation between cultural changes and changes in English vocabulary, grammar, pronunciation, and spelling. Prerequisite: at least one ENGL course at the 2000-level or higher.

ENGL-3452 American Literary Sentimentalism

A study of nineteenth-century American literary sentimentalism, with a particular focus on the movement's constitution of gender, power, and race. We will read such major bestselling novels as Harriet Beecher Stowe's

This course examines the fiction of nineteenth-century Britain, emphasizing the major authors and trends associated with the Romantic and/or Victorian eras. Course readings may be thematically-linked or selected according to another constraint (e.g. historical fiction, women writers, etc.); students may repeat the course as topics vary. Prerequisite: at least one ENGL course at the 2000 level or higher.

ENGL-3470 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.

ENGLS 847 Prime spic an 20100 decent of the Nineteenth Century

Study of particular periods, literary movements, authors, themes, or genres of nineteenth century American literature. Students may repeat the course as topics vary. Prerequisite: At least one ENGL course at the 2000 level or higher.

ENGL-3372 American Literature, 1900 - Present

Studies in women oloniriods, literary mocs dings ts mayssoc on, rse as topics vary. Prerequ Olevel

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.

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This course examines the formal and thematic development of the American novel from the early national period to the present, focusing on the evolution of American readers, the novel's engagement with historical controversy and pressing social issues, and the changing place of literary print culture in relation to wider shifts in technology. Prereceptistice:tAteletist.toon@EN&chaourseisitethENGDC28028, @Bbigloorconse co ent of instructor.

ENGL-3385 The Continental Novel

ENGL-4405 Topics in Creative Writing

Extensive writing in a specific form or genre. Maybe repeated once when topics vary. (Offered every year).

ENGL-4411 Advanced Writing of Creative Nonfiction

Extensive writing in forms and techniques of creative nonfiction (memoir, travel writing, nature writing, etc.). Courses alternate by semester between memoir/personal essay and more research-driven work. May be repeated for up to 6 hours of credit when topic vary. Prerequisite: ENGL 2401 or consent of Instructor

ENGL-4412 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. Prerequisite: ENGL 2402 or consent of instructor.

ENGL-4413 Advanced Poetry Writing

Extensive writing in forms and techniques of poetry. May be repeated for up to 8 hours credit with permission of instructor. Prerequisite: ENGL 2403 or consent of instructor.

ENGL-4417 Seminar in Literary Methods

Literary works from more than one historical period examined in relation to a selected thematic or generic topic. May be repeated when topics vary; if appropriate, may count toward a distribution requirement (in which case it does not count as an elective). (Offered occasionally) Prerequisite: at least one ENGL course at the 2000 level or higher.

ENGL-4418 Seminar in Literary Theme Or Genre

Literary works from more than one historical period examined in relation to a selected thematic or generic topic. May be repeated when topics vary; if appropriate, may count toward a distribution requirement (in which case it does not count as an elective). (Offered every other year).

ENGL-4419 Studies in Medieval Literature

Selected topics concerning the intersection of literature and culture in medieval England in the context of current critical theory and debate. Topics vary, including selected topics, genres, and cultural issues of Anglo-Saxon and Late Medieval English Literatures. May be repeated when topics vary. Prerequisite: At least one ENGL course at the 2000 level or higher.

ENGL-4420 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. (Offered occasionally). Prerequisite: At least one ENGL course at the 2000 level or higher.

ENGL-4440 Digital Approaches to English Literature

Digital technologies provide new opportunities for literary studies, allowing scholars to mine texts and advance quantitative claims that would otherwise be impossible to support, to present texts in creative new formats, and to access, organize, and process archival material dispersed around the world. This course will introduce students to some of these possibilities and equip them to use a digital skillset in their study of the humanities. We will survey and assess the current state of the field of the digital humanities, learn some of the skills needed to undertake work in this field, and use those skills to create major digital projects. (Offered every year.) Prerequisites: At least one ENGL course at the 2000 level or higher.

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

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and engineering science that form the foundation for technical work in all fields of engineering. Some specialization is available through elective courses in Chemical, Electrical, and Mechanical Engineering, taken during the junior and senior years. The program provides significant hands-on experience in engineering laboratories and participation in engineering design projects throughout the eight-semester engineering design course sequence. The emphasis on fundamentals is intended to prepare students for dealing with the rapid pace of technological change and the interdisciplinary demands of today s, and tomorrows, engineering practice. The laboratory and design portions of the program provide the student with a balanced perspective of the realities and limitations required for practical problem solving. The professional practice of engineering requires skill and resourcefulness in applying science and technology to the solution of problems in our complex technological society. The successful engineer must possess a thorough understanding of social and economic forces and have an appreciation of cultural and humanistic traditions. The Trinity Engineering Science Program encourages the development of this kind of graduate by providing a broad technical background and a significant liberal education in the humanities and social sciences.

Accreditation

Trinity's undergraduate Engineering Science Program is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

Requirements

- Admission to the Engineering Science Major
- Bachelor of Science in Engineering Science Degree
- Four-year class schedule
- Prerequisite Requirement

Admission to the Engineering Science Major

I. Students will normally apply for acceptance to the Engineering Science major during the second semester of their sophomore year. Those students who do not apply in this period, but do apply later, will be handled as transfers. The transfer criteria for acceptance are consistent with those listed below, and they generally apply to all courses taken up to the time of application.

II. For full acceptance a student must ordinarily satisfy the following requirements:

- A. Completion of MATH 1311, 1312, and 2321 with an average of 2.0 or better.
- B. Completion of PHYS 1311, 1111, 1312, 1112 and CHEM 1318 and 1118 with a minimum grade of C-

in each course and an average of 2.0 or better.

C. Completion of ENGR 1381, 1382, 1313, 2314, 2320/2120, and 2181 with a minimum grade of C-in each course and an average of 2.0 or better.

D. A grade of C or better in ENGR 1313, 2314, 2320/2120 (No more than 4 credits taken at another institution after matriculation at Trinity may be used to satisfy this requirement).

E. Approval by the Chair of the Department.

III. Provisional acceptance may be granted to applicants with no more than two grades of C- in the courses listed in 2d.

IV. After completing ENGR 2311, 2364/2164, 3355/3155, and 3327, the progress of provisional students will be reviewed. Upon recommendation of the faculty advisor and approval by the Chair of the Department, full acceptance will be granted.

V. Requests for exceptions to this policy will be considered by the Chair of the Department.

Bachelor of Science in Engineering Science Degree

Engineering students normally follow programs of study specifically tailored to long term career objectives. Each program is composed of a combination of required and elective courses. The electives are chosen through required consultation with the engineering science adviser.

Requirements for the Bachelor of Science in Engineering Science degree are as follows:

I. Engineering Science departmental requirements:

A. ENGR 1313, 1381, 1382, 2181, 2182, 2309, 2311, 2314, 2320/2120, 2364/2164, 3181, 3182, 3323/3123, 3327, 3355/3155, 4326/4126, 4341, 4381, and 4382, totaling 54 credit hours.

B. MATH 1311, 1312, 2321, 3316, 3320, 3357; PHYS 1311/1111 and 1312/1112; CHEM 1318/1118 and a basic science or math elective (any course in biology or geosciences or a 2000 level course or higher in mathematics, physics, or chemistry) for a total of at least 33 credit hours.

C. CSCI 1312 or an equivalent course approved by the department chair.

Four-year class schedule

The suggested arrangement of courses for a four-year program leading to the degree of Bachelor of Science in Engineering Science should be determined in conference with the student's adviser. The recommended first-year program is shown below.

First Year

Fall Semester	Credit Hours
ENGR 1381	3
MATH 1311	3
PHYS 1311	3
PHYS 1111	1
First-Year Experience	6
Total	16

Spring Semester	Credit Hours		
ENGR 1382	3		
ENGR 1313	3		
MATH 1312	3		
PHYS 1312	3		
PHYS 1112	1		
Pathways	3		
Total	16		

Prerequisite Requirement

The Engineering Science Department enforces the University s policy on prerequisites.

Courses

ENGR-1313 Mechanics I

Forces and couples acting on rigid bodies in equilibrium using vector analysis including equivalent force systems, free body diagrams, truss analysis, friction, centroids, and moments of inertia. Prerequisites: MATH 1311 and PHYS 1311.

ENGR-1381 Engineering Analysis & Design I

Introduces students to the engineering design process utilizing a competitive design project. Small groups of students conceive, design, build, and test a structure or device to best achieve specified performance criteria under realistic constraints. Emphasis is placed on Computer Aided Design (CAD). Supporting topics include sketching,

involve a technological component. The course prepares students for making ethically and financially informed decisions in the workplace environment. Topics include: finance for professionals; the ethical dimensions of professional practice; industrial workplace safety; and contemporary issues in technological fields. Prerequisite: At least Sophomore standing

ENGR-2311 Mass and Energy Balances

Conservation of Mass and Energy concepts applied to open and closed systems with and without chemical reactions. Phase equilibria. (Offered every year). Prerequisites: Sophomore Standing

ENGR-2314 Mechanics II

Accelerated rigid body motion including kinematics and kinetics of particles and bodies, work and energy, linear and angular impulse and momentum, and vibrations. Prerequisite: ENGR 1313 Corequisite: MATH 1312

ENGR22320 Electric Circ Bits

An introduction to the techniques of analysis and desig5	omoof analy	ly	and angula
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ENGR-2164 Electronics I Laboratory

Laboratory course accompanying ENGR 2364. A continuation of the topics in ENGR 2120, with emphasis on electronic devices and systems. Experiments and design projects employing diodes, transistors, operational amplifiers, and combinational and sequential digital logic. Corequisite: ENGR 2364.

ENGR-3181 Engineering Design V

and the electron scanning microscope. Supplemental of x-ray diffractometer and the electron scanning microscope. Supplemental movies on advances in engineering materials. Individual project.

ENGR-4342 Bioengineering Science

Structure, function, and modeling of transport systems in the human body with emphasis on cardiovascular, pulmonary, and related systems. Mathematical modeling and system responses to environmental changes. Homeostasis and control systems. Prerequisites: CHEM 1318 and MATH 1311.

ENGR-4356 Modern Control System Design

Selected topics from the broad range of modern methods of control system analysis and design, such as: statespace and modern transfer function models and methods; discrete-time and/or nonlinear systems; multivariable systems; computer-aided control system design.

ENGR-4357 Chemical Reaction Engineering

Chemical reaction kinetics and its relationship to the design and scale-up of chemical reactors. Mathematical analysis of batch, mixed flow and plug flow reactors, advanced topics including multireaction analysis, heat and mass transfer in chemical reactors and catalytic reactors. Computer simulation. Prerequisites: ENGR 2311

ENGR-4358 Biochemical Engineering

The fundamentals of analysis and design of bioprocesses. Topics include enzyme kinetics, immobilized enzyme reactors, cell cultivation, growth kinetics, and bioreactor design. Prerequisite: ENGR 2311.

ENGR-4365 Digital Logic Design

A comprehensive study of digital logic design and analysis techniqueodsTr demprbetion, lod scaeeodnon chaeacsit

design of transfer operations including distillation, gas absorption, liquid extraction and cooling towers. Computer aided design and simulation. Prerequisite: ENGR 2311

ENGR-4367 Mechatronics

This course surveys topics underlying the design of mechatronic systems such as electronics, system modeling and control, and computer control systems. Components supporting system design such as sensors, actuators, and data acquisitions are also covered. Case studies of mechatronic systems, including discussion of tradeoffs between mechanical, electrical, electronic, and microcomputer control, are studied. A final project involving the design and implementation of a mechatronic system puts these principles into practice. Prerequisites: ENGR 2314, 2364, and 3355.

ENGR-4369 Embedded Microcomputer Systems

Study of microprocessor and microcontroller systems: hardware, including basic system architectures, processors, memory, and peripheral devices; software, including assembly language programming; and system design, including electrical and mechanical applications. Hands-on experience in a typical development environment, including interfacing and programming. Includes a case study of a typical embedded system.

ENGR-4370 Mechanics of Continuous Media

Mechanics of solids including elasticity, plasticity, advanced strength of materials, energy methods, experimental stress analysis, and an introduction to the finite element method. Prerequisite: ENGR 3339.

ENGR-4371 Machine Design

Topics chosen from among static and fatigue theories of failure, fracture, probabilistic design, shafts and shaft components, springs, welded and bolted connections, and gear design. Prerequisite: ENGR 3339

ENGR-4372 Computational Methods in Engineering

Application of contemporary numerical methods to problems in chemical, electrical and mechanical engineering. Formulation of governing differential equations, weighted residuals, finite-difference, and control volume finiteelement methods. Prerequisite: MATH 3316

ENGR-4373 Thermal/Fluid Applications

This course covers advanced topics in fluid mechanics, heat transfer, and thermodynamics. Applications in which the interdependence of these fields is critical to the understanding of engineering systems will be emphasized. Prerequisite: ENGR 3327.

ENGR-2-91 Problems in Engineering

Independent work on problems in engineering as indicated by the student's preparation and interest. 1 to 6 semester hours. Prerequisite: Consent of Instructor

ENGR-4-91 Problems in Engineering

Independent work on problems in engineering as indicated by the student's preparation and interest. 1 to 6 semester hours. Prerequisite: Consent of Department Chair.

Entrepreneurship

Faculty

Luis E. Martinez, Ph.D., Director of the Center for Innovation and 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
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

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 and THTR/ENGL/MUSC 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-3-90 Directed Studies: Junior 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. Prerequisite: ENTR 3340 and Senior Standing

ENTR---91 Special Topics in Innovation and Entrepreneurship

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. Prerequisite: Consent of Instructor

Environmental Studies

Faculty

Kelly Grey Carlisle, Ph.D., Associate Professor, English
Greg Hazleton, Ph.D., Visiting Assistant Professor
Glenn Kroeger, Ph.D., Associate Professor, Geosciences
Kelly Lyons, Ph.D., Professor, Biology
Jennifer P. Mathews, Ph.D., Professor, Sociology and Anthropology
Shana McDermott, Ph.D., Assistant Professor, Economics
Judith Norman, Ph.D., Professor, Philosophy
Richard K. Reed, Ph.D., Professor, Sociology and Anthropology
David Ribble, Ph.D., Professor, Biology; Director
Heather Sullivan, Ph.D., Professor, Modern Languages and Literatures
Benjamin Surpless, Ph.D., Associate Professor, Geosciences
Elizabeth Ward, M.F.A., Professor, Art and Art History

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

• <u>The Major</u> The Minor

The Major

The requirements for the degree of Bachelor of Arts with a major in Environmental Studies are at least 43 credit hours as follows:

I. The Introductory Course (3 credit hours):

ENVI 1301 Introduction to the Environment

II. Fundamental skills (23-24 credit hours):

ANTH 2357	Humans and the Environment
BIOL 1311	Integrative Biology
BIOL 1111	Introductory Biology Laboratory
ECON 1311	Principles of Microeconomics
ECON 3330	Economics and the Environment (also listed as URBS 3330)
GEOS 1409	Earth's Environmental System (with lab)
PHIL 1350	Environmental Ethics
URBS 3330	Economics and the Environment (also listed as ECON 3330)

And one of the following (3-4 hours):

ART 2495	Outdoor Studio
CMLT 2350	Science Fiction and the Environment
CMLT 2301	World Literature and the Environment
ENVI 3391	Environmental Literature

science and for careers in laboratory and field monitoring and evaluation of environmental data.

CHEM 1318	General Chemistry
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CHEM 1118 General Chemistry Laboratory

And Concentration Courses completing one of the following areas:

1. Biology

BIOL-2412	Cells, Systems, and their Environment
BIOL 2413	Genes, Phenotypes, and Evolutionary Dynamics
CHEM-2119	Laboratory Methods in Organic Chemistry
CHEM-2319	Organic Chemistry I

And 3 of the following:

ANTH 2310

PHYS 1309 or PHYS 1311 PHYS 1310 or	General Physics I General Physics II		
PHYS 1312			
PHYS 2311	Introduction to Biophysics		
PHYS 3312	Geophysics		
PHYS 3321	Statistical Physics and Thermodynamics		
PHYS 3322	Classical Mechanics and Nonlinear Dynamics		
4. Engineering (4	4 of the following) fo f fo	f	ynamio

CMLT 2350	Science Fiction and the Environment
ENGL 2303	American Literature: Colonization to 1900
ENGL 3365	Nineteenth-Century British Poetry
ENVI 3391	Environmental Literature
PHIL 3432	Philosophy of Science
PHIL 3452	Social and Political Philosophy

IV. Senior Seminar in Environmental Studies: ENVI 4301

V. University requirements: completion of all other required elements of the Pathways curriculum and at least 124 credit hours.

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 Pathways 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
BIOL 1111	Introductory Biology Laboratory
ECON 1311*	Principles of Microeconomics
GEOS 1409	Earth's Environmental Systems
GEOS 2400	Dynamic Earth
ECON 3333*	Economics and the Environment (also listed as URBS 3333)

Honors in Environmental Studies

Environmental Studies majors are eligible to receive Honors if they have completed two semesters of Senior Thesis credit and presented a senior thesis or project, which has been evaluated and approved by Environmental Studies faculty. In addition, students must attain an overall 3.3 grade point average cumulatively and in the major. Prior to registration for their senior year, Environmental Studies Honors candidates must meet with the Environmental Studies program chair and arrange for the faculty thesis director and two additional faculty members to act as an Honors Advisory Committee. Students must submit to the program chair a written request to graduate with Honors in Environmental Studies 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 program chair, the Honors Committee and two additional faculty from the Environmental Studies Committee, based on the quality of the written thesis or art work and the oral presentation of that material.

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

Green Leaf courses counting toward certification:

I. 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 Hya ap8
GEOS 1307	Exploring Earth
GEOS 1405	Oceanography
GEOS 3411	Нуа

HIST 3382	The City in History (also listed as URBS 3304)
ML&L 3342	The Peoples of Russia
URBS 3304	The City in History (also listed as HIST 3382)

III. Social Sciences and Business:

ANTH 1301	Introduction to Anthropology
ANTH 2357	Humans and the Environment
ANTH 3349	Globalization and Social Change (also listed as SOCI 3349)
ANTH 3364	Economic Anthropology
ANTH 3367	South American Indigenous Peoples: Conquest and Development
ANTH 4354	Seminar in Primatology
ECON 3330	Economics and the Environment (also listed as URBS 3330)
PLSI 1332	Film, Literature, and Politics of the Third World
SOCI 1316	Places and Regions in Global Context (also listed as URBS 1316)
SOCI 3340	Urban Geography (also listed as URBS 3340)
SOCI 3349	Globalization and Social Change (also listed as ANTH 3349)
URBS 1310	The Urban Experience
URBS 1316	Places and Regions in Global Context (also listed as SOCI 1316)
URBS 3330	Economics and the Environment (also listed as ECON 3330)
URBS 3340	Urban Geography (also listed as SOCI 3340)

Additional Green Leaf Courses:

When First-Year Seminars and Writing Workshops have topics related to environment/sustainability, or when departments offer a relevant special topics or variable content course, the Faculty Advisory Committee may approve such courses for inclusion within the ESAC certification program.

Courses

ENVI-1301 Introduction to Environmental Studies

Students study an interdisciplinary approach to environmental inquiry and action, which spans three areas: the natural sciences, social policy, and the humanities. Students engage in readings, discussions, and field trips from

biology, geosciences, economics, social justice, art, ethics, and literature. This approach introduces students to the broad field of Environmental Studies and to the specific tracks of the major. (Offered every year.)

ENVI-1305 Advanced Placement Credit in Environmental Science

Students earning 4 or 5 on the Advanced Placement Test in Environmental Science or earn at least a 5 in the International Baccalaureate Environmental Systems and Societies course will receive AP credit through this course.

ENVI-2-ECNE/hv2r600nEtipWrontye/relata8tLitteestEired School

Students will analyze the changing face of geological systems, flora and fauna, and human society over time and space. Particular attention will be paid to land use over time and space, using skills of the natural sciences and policy analysis, as well as perspectives of art and literature.

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-3301 Environmental Literature

This course introduces students to environmental literature, including traditional nature writing from the nineteenth century to the p eek for a S 13mtik mB

ML&L 3321	German Cinema
ML&L 3344	Russian Cinema
SPAN 3321	Spanish Cinema

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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 COMM 1302.)

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 visn , critical acclaim; ot the anaandeal

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<u>Geosciences</u>

Faculty

Kurt Knesel, Ph.D., Visiting Assistant Professor Glenn Kroeger, Ph.D., Associate Professor Dan Lehrmann, Ph.D., Gertrude and Walter Pyron Professor of Geosciences Diane Smith, Ph.D., Imogene and Harold Herndon Professor of Geology Benjamin Surpless, Ph.D., Associate Professor Kathleen Surpless, Ph.D., Professor; Chair Brady Ziegler, Ph.D., Assistant Professor

Overview

The department of Geosciences offers two degrees, a Bachelor of Arts in Earth Systems Science and a Bachelor of Science in Geosciences. The Bachelor of Arts program prepares students interested in careers or disciplines that require a fundamental understanding of earth systems (e.g., environmental science, secondary eduation, law, geography). This BA program offers flexibility, allowing students to pursue intensive study in disciplines. The Bachelor of Science program prepares students for graduate work in geosciences or for entry-level positions in geosciences or related fields. The BS program serves the student interested in a broad-based introduction to geosciences and provides opportunities for joint student-faculty research projects.

Requirements

- Departmental requirements: Bachelor of Arts Degree in Earth Systems Science (ESYS)
- Departmental requirements: Bachelor of Science Degree in Geosciences
- The Minor
- Honors in Geosciences

The Major

Departmental requirements: Bachelor of Arts Degree in Earth Systems

Science (ESYS)

The requirements for the degree of Bachelor of Arts with a major in Earth Systems Science are:

A. At least 30 credit hours in geosciences, including:

- 1. One of GEOS 1303, GEOS 1405, GEOS 1406, 1307, or 1409.
- 2. GEOS 2400.
- 3. GEOS 2401, 2304, and 3400.
- 4. Participation in GEOS 3120 is required for junior majors. Trip expenses, including transportation, must be paid by each student.
- 5. At least eleven 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.
- 6. GEOS 4001.

B. 18 additional credit hours from the following courses:

- 1. At least 9 credit hours from ANTH 2310; BIOL 1311, 1111, 2312, 2112, 2305, 3434; BUSN/ECON 2301; CHEM 1318, 1118, 2319, 2119; MATH 1311, 1312, 1320, 2308; CSCI 1320; PHYS 1303, 1309, 1311, 1111, 1310, 1312, 1112; PSYC 2401.
- 2. At least 6 credit hours from CMLT 2301, 2350; ECON/URBS 3330; ANTH 2310, 2357; PHIL 1350, 2456; SOCI 1316, 2314; URBS 3340; or additional courses approved by Geosciences Faculty.

C. University requirements:

Completion of all other required elements of the Pathways curriculum and at least 124 credit hours.

Bachelor of Science Degree in Geosciences

The requirements for the degree of Bachelor of Science with a major in Geosciences are:

A. At least 35 credit hours in geosciences, including:

- 1. One of GEOS 1303, GEOS 1405, GEOS 1406, 1307, or 1409.
- 2. GEOS 2400.
- 3. GEOS 2401, 2304, 3400, and 3401; either 3309 or 3412; either 3422 or 3423; plus 6 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.
- 4. Participation in GEOS 3120 is required for junior majors. Trip expenses, including transportation, must be paid by each student.
- 5. GEOS 4001.

B. MATH 1311 and one of MATH 1312, 1320, or 2308; CHEM 1318 and 1118; PHYS 1309 or 1311, PHYS 1310 or 1312; PHYS 1111 and 1112.

C. University requirements:

produced by volcanic processes and geologic hazards associated with volcanism will be discussed. (Offered every other year.)

GEOS-1405 Oceanography

An inquiry-based introduction to 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 and global climate change. Approximately one half of the course meeting times will be data analysis, laboratory or field activities. Field trip required; field trip costs must be paid by each student. (Offered every year.)

GEOS-1406 History and Evolution of Life

An inquiry-based study of major events in the history and evolution of life. Topics include fundamentals of earth systems, the origin of life, mechanics of evolution, diversification of life, the invasion of land, innovation of flight, mass extinctions, evolution of mammals, primates and hominids, and how human activity may affect the future of life. Three class hours each week, three full-day field trips, and out of class projects including analysis and synthesis of data gathered on field trips. Field trips are required; field trip costs must be paid by each student. (Offered every Spring)

GEOS-1307 Geology, Resources, and Environmental Issues of China and Southeast Asia

A survey of the basic geology, natural resources and environmental issues of China and southeast Asia. The fundamental geologic context of China and southeast Asia will be presented in the context of plate tectonics, Earth system processes and Earth history. A large part of the course will be in seminar format. Discussion topics will focus on the unique geological features of China and southeast Asia, the geology of hydrocarbon, metallic and non-metallic resources, and the unique environmental challenges China and southeast Asia face as a result of rapid economic development.

GEOS-1409 Earth's Environmental Systems

An inquiry-based examination of the interaction of the Earth's natural systems and the role that humans play in determining the evolution of those systems. Topics include plate tectonics, solid earth processes and resources, surficial physical and chemical processes, energy resources, and global climate change. Field trips required; field trip costs must be paid by each student. (Offered every year.)

GEOS-2400 Dynamic Earth

An intermediate-level, inquiry-based study of the fundamental geological materials and processes of the Earth. Topics include plate tectonics, geophysical studies of the subsurface, mineral properties and formation, rock properties and formation, volcanic processes and landforms, earthquake processes, geologic map interpretation, cross section construction, and relative and absolute age dating. Three class hours and three laboratory hours each week. Field trips are required; field trip costs must be paid by each student. (Offered every year).

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A study of the geochemical processes that occur at or near Earth's surface and their application in solving geologic and environmental problems. Topics emphasized will include elemental cycling, thermodynamics, kinetics, acid-base equilibrium, and redox reactions. Prerequisites: CHEM 1318 and GEOS 2400 or consent of instructor.

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-4-90 Directed Studies - Senior Level

Individual work under supervision. Credit may vary. Prerequisites: Major or minor standing and consent of project supervisor.

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.

General Education

Courses

FYE-1600 First-Year Experience

The First-Year Experience provides substantial instruction in written and oral communication skills while engaging a topic of widespread or enduring significance. For each topic, the First-Year Experience consists of y e png

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 ML&L 1303.)

GNED-1306 Energy and Society

A study of the physics and technology of energy systems and their impact on society.

GNED-1341 Connected Science: Powering Our Lives

This course is intended primarily for students planning to become elementary school teachers or middle school science teachers. The course emphasizes the interdisciplinary application of fundamental scientific principles, practices, and ways of thinking to address questions relevant to everyday life. By exploring questions such as "How do we power our cars?" and "Why do we cook our food?", students will explore and apply foundational scientific concepts and processes by actively participating in scientific investigations and considering implications

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 Culture 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 Experience.

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.

GNED-4355 Time Across Disciplines

This course pulls together the theme of time across the Common Curriculum and explores the interconnections. Sample topics include cultural differences in punctuality and orientations towards the future and past, the social construction of life-stages and age-graded roles, jet lag and circadian rhythms, zeitgeists, controversies over evolution and the age of the earth, and the relationships between economic and political cycles, religious revivals,

Admission Requirements

Any undergraduate major is carefully considered. The following items are required for admission to the program: comple. hsekn general, s dnd 0 ,le loe E s id Thc s for C pre a career rements in one or more o2 For completed application for admission to graduate study and a \$50 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 pre-requisites should be completed in advance of the student's registration. An applicant may fulfill the requirements in one or more of the following ways:

I. Completion of three-hour undergraduate level courses in each of the three subject areas with a grade of A

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consideration of the students 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 5221	Operations Management in Health Care Organizations
HCAD 5290	Problems: Clinical Decision Making
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 5351	Financial Management
HCAD 5365	Leadership and Conflict Management
HCAD 5373	Health Administration Ethics
HCAD 5380	Health Care Human Resource Management

Summer Semester

HCAI 5353	Financial Management for Health Care Administration
HCAI 5340	Managerial Epidemiology
Second Year Fall Semester	
HCAI 55313	Economic Aspects of Health Care Administration
HCAI 5390	Problems: Performance Improvement
Spring Semester	
HCAI 5351	Seminar in Strategic Management of Health Services
HCAI 5360	Leadership Effectiveness
HCAI 5356	Seminar in Strategic Planning and Marketing
Summer Semester	
HCAI 5333	Legal Aspects of Health Care Administration
HCAI 5380	Health Care Human Resource Management

The Degree of Master of Science in Health Care Administration is conferred by Trinity University upon completion of all coursework.

Courses

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 ECON 3333.) Prerequisite: ECON 1311 or consent of the instructor.

HCAD-3350 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 reimbursesalth nshi bursesal esal esal esal nde se6 nl alQ nl This course will introduce Health Care Administration students to the nature of clinical process and decisionmaking in clinical care. The course will provide context for understanding the relationship between and among clinicians in the rendering of care to patients. We will explore the nature of clinical care itself. Specifically, following the model of case-based learning, and by participating in clinical presentation and analysis, administrators will gain an understanding of the process, priorities, motivations, strengths, and limitations of clinical decision-making. Administrators will also broaden their knowledge of and fluency in clinical terminology and communication. (Offered every Fall.)

HCAD-5220 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-5221 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-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 heath 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.

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-5380 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-5383 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-5385 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-5-90 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-5395 Health Care Performance Improvements

This course provides an introduction to the fundamentals of guiding and sustaining health care organizational performance improvement, including the topics of leadership, culture, employee onboarding and engagement, customer relationship management, and contemporary performance improvement concepts, tools, and techniques. (Offered every Fall.)

HCAD-6000 Thesis Renewal Administration

HCAD-6099 Degree Requirements in Progress

HCAD-6201 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 **producers of the activities** ons Management o practical

HCAD-6202 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-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

Health Care Administration Executive Program Courses

HCAI-5220 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-5221 Operations Management o practical

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HCAI-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.

HCAI-5340 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-5351 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. They will also analyze and reflect on the individual Integrated Field Experience required prior to graduation. (Offered every Spring).

HCAI-5353 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-5356 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. (Offered every Spring).

HCAI-5360 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-5380 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-5395 Health Care Performance Improvement

This course provides an introduction to the fundamentals of guiding and sustaining health care organizational performance improvement, including the topics of leadership, culture, employee onboarding and engagement,

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HCOM 3372 Intercultural Communication

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 37 credit hours to be taken as follows:

1. Required core consists of 28 credit hours.

a.. Theatre Practicum (4 hours):

University Theatre Company	(four semesters for a total of four credit hours; at least one semester must be taken in THTR 1101)
THTR 1100	University Theatre Company I Acting, directing, dramaturgy, choreography. May be repeated up to 3 times.
THTR 1101	University Theatre Company II Construction, running crew, stage management, design. May be repeated up to 4 times.

b. Technology and Design (6 Hours):

THTR 1320

THTR 1350	Introduction to Acting
THTR 2100	Stage Makeup Design
THTR 2310	Principles of Design

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-1170 Leadership Academy

Leadership Academy is a one-credit comprehensive leadership course for first-year and sophomore students. It is an experiential leadership course where students learn leadership essentials and explore how their leadership impacts others. The course requires individuals to explore their own leadership through theory-to-practice transformational leadership activities, small and large group discussions, and reflection. Leadership Academy concludes with a service project.

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 contests.

HCOM-1305 Foundations of Linguistics

Examines the foundations of human language including phonology, morphology, syntax, and semantics. (Also listed as LING 1300.)

HCOM-1310 Applied Linguistics

Examines applications of linguistics in psycholinguistics (language acquisition and language processing), sociolinguistics (language development and change in groups and organizations), the interaction of language and culture, and analytical procedures (discourse and text analysis). (Also listed as LING 1310.)

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. (Same 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-2320 Human Communication and Human Relations

This course employs communication concepts, principles, and practices to develop students' abilities to understand, evaluate, and improve their interpersonal and group communication. Specifically, the course provides opportunities for students to understand more fully, critically reflect on, and enact alternatives to taken-for-granted interpersonal communication in dyadic and small group settings. To accomplish those goals, the majority of the class employs an experimental group method-an inductive form of learning in which students first participate in creating and then analyze and evaluate how the created high-quality interpersonal communication with other class members.

HCOM-2330 Conflict and Human Communication

Conflict is an inevitable part of our daily lives, and occurs in multiple contexts. Many people view conflict as inherently destructive, yet this need not be the case. If handled correctly, conflict can serve as the basis for positive transformation and relational growth. This course will discuss how people can improve their communication skills to manage personal, professional, and social conflicts in a constructive manner.

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 Quintilian.

HCOM-2352 Modern Rhetorical Theory

Examines the evolution of rhetorical theory from the Renaissance to the present, focus rExafin aissanurs is T

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-3350 Rhetorical Criticism

Examines approaches to the critical analysis of rhetorical discourse with emphasis on methodological issues as well as techniques for doing scholarly criticism.

HCOM-3352 Rhetorical Analysis

Introduction to rhetoric as a mode of analysis as it applies to discursive modes and genres. (Also listed as ENGL 3335.) Prerequisite: at least one course in ENGL at the 2000-level or higher

HCOM-3354 Quantitative Research Methods

This course provides an overview of quantitative research methods and statistical analysis. Students will learn the basic elements of social scientific inquiry, including: 1) quantitative research design and methodologies; and 2) statistical analysis and hypothesis testing procedures. Students will display their knowledge by applying quantitative research methods to help understand and predict social phenomena . (Also listed as COMM 3354.) (Offered every semester).

HCOM-3360 Communicating in Small Groups & Teams

The Theory and practice of small group and team dynamics including the examination of such concepts as group problem solving; discussion making; normative behavior; roles; leadership; conflict; group cohesion; group climate; and teamwork.

HCOM-3362 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-3364 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

An introductory survey of the basic theories, research, and applications aimed at understanding and improving communication across racial, ethnic, religious, and cultural differences. It focuses on local, national, and global contexts with attention to the challenges created by identity, language, and nonverbal codes in achieving mutual understanding. (Also listed as COMM 3372.) (Offered every other year.) Prerequisite: COMM 1301

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-3398 Honors Reading

Independent study in selected areas in preparation for Honors Thesis. Prerequisite: Admission to Honors Program.

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

depending on responsibilities and/or scope of the project. Course may be repeated for a maximum of 6 credit hours. Prerequisite: 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. Prerequisite: 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 in the discipline 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 semester hours of Human Communication coursework and permission of instructor.

HCOM-4398 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.

HCOM-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.

Theatre - Lower Division

THTR-1100 University Theatre Company I

Course focuses on specific responsibilities assigned by faculty and staff regarding University Theatre Productions.

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 towards the major.

THTR-1330 Principles of Costume Construction

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-1342 Arts Entrepreneurship Mindset

Artists create! Do they see themselves as entrepreneurs? How do they create value for customer/client? How do they deliver that value to a customer/client? How they capture the worth of that value? Specifically designed for performers, writers, composers, musicians, conductors, designers, painters, photographers, sculptors, theatre directors, artistic directors, actors, poets and other creatives, this class offers a framework, tools, and a community of peers and mentors to develop an entrepreneurial mindset. The students will start from the craft they know, learn the craft they need to create value. Students will examine the breadth of professional opportunities available in the Creative Economy and in the individual's field of arts practice, and explore strategies for pursuing them. (Also listed as ENTR 1342).

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

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-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. (Also listed as MUSC-2301).

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 1410 and THTR 2310.

THTR-2312 Experiential Design

Experiential Design is a discussion and projects based course which studies the various interactive, immersive and

Theatre - Upper Division

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-3311 History of Dress & Style

A study of the evolution of western dress from the Greeks to the present, focusing on how, within each era, the social, political, and cultural environment shaped the fashions of rich and poor. In the course of the semester, students will learn how sex, politics, and self-expression have influenced dress throughout the ages.

THTR-3312 Costume Design

This course explores the ways modern theatre has served as a laboratory for interrogating psychology and politics or imagining possible worlds. Class meetings focus on important plays and manifestos, particularly those of the European avant-garde from the late nineteenth century to the middle of the twentieth. The class aims to deepen

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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-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 semester credits of Theatre coursework and consent of instructor

THTR-4398 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.

THTR-4394 Seminar in Theatre

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-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.

<u>History</u>

Faculty

Emilio De Antunano, Ph.D. , Assistant Professor <u>Anene Ejikeme, Ph.D.</u> , Associate Professor <u>Jason Johnson, Ph.D.</u> , Associate Professor Erin Kramer, Ph.D. , Assistant Professor <u>Carey H. Latimore IV, Ph.D</u> , Associate Professor; Chair <u>David Lesch, Ph.D.</u> , Ewing Halsell Distinguished Professor of History <u>Kenneth Loiselle, Ph.D.</u> , Associate Professor <u>Nicole Marafioti, Ph.D.</u> , Associate Professor <u>Gina Tam, Ph.D.</u> , Assistant Professor <u>Lauren Turek, Ph.D.</u> , Assistant Professor

Requirements

The Major

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

I. Departmental requirements:

The Minor

The requirements for a minor in history are as follows:

- I. 18 credit 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 students 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.

LoweiviBivisionenAmoient 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 originatingll omen hilp d, cpd, d Rome 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.

Lower Division - 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-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.

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.

HIST-2430 Medieval Kingship: Power, Patronage, and Propaganda, 750 - 1035

This writing-intensive seminar-style course will introduce historical methods and skills through the study of three medieval kings: Charlemagne, Emperor of the Franks; Otto I, Emperor of Germany; and Cnut the great, King of England, Norway, and Denmark. We will examine primary sources, conduct secondary research, and develop our own historical hypothesis about the significance of these kings and their reigns. Writing assignments will include source analyses, secondary critiques, and a final research project.

HIST-2432 European Frontiers 1848 - Present

Analyzes the shifting borders of Modern Europe, ones often accompanied by deadly consequences in the eastern two-thirds of the continent. In particular, this course will examine how physical and societal borders have been redrawn to create categories of inclusion and exclusion in Modern Europe. (Also listed as GRST 2432.) (Offered every other year).

HIST-3431 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.

HIST-3432 Vikings, Saxons, and Franks: the Barbarian North, 500-1300

This discussion-driven course examines concepts of barbarism and civilization among three medieval populations: the Vikings, Saxons, and Franks. Students may analyze medieval histories and chronicles, pagan myths and saints' lives, epic poetry and sagas, and modern historical scholarship. Classroom discussions and student research will focus on how these three societies constructed their own identities by recording and narrating their past.

HIST-3433 The Middle Ages in Film

This discussion-driven course examines how medieval history has been portrayed on the big screen. Our classroom discussions will focus on the historical foundations of three films and consider how the events they depict were understood by people living in the Middle Ages. Readings assignments will consist of medieval primary sources and secondary scholarship by modern authors; additional require7 ay incl of th-3433 The Middle w

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 Tradition

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).

Lower Division - 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.

Lower Division - United States History

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

those myths continue to overshadow our understanding of Native communities today. (Offered every other year.)

HIST-2440 U.S. Society and Politics Since 1945

This writing-intensive seminar-style course will introduce historical methods and skills through a study of the United States since 1945. We will explore how politics, foreign policy, and culture interacted to shape American society and the role of the United States in the world. Social movements, hot button political issues, and global conflict will feature prominently in our course readings and discussions. We will examine primary sources, conduct secondary research, and develop our own historical hypotheses about this period. Writing assignments will include primary source analyses, secondary critiques, and a final research project. (Offered every other year.)

Upper Division - African History

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-3400 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.

Upper Division - Ancient Greece and Rome

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

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.

Upper Division - 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. (Also listed as ECON 3342.) Prerequisite: ECON 1311 and 1312

Upper Division - Middle East History

HIST-3352 Modern History of Syria

After a brief survey of Syrian history going back to the Assyrians, Romans, Umayyads, Fatimids, Crusades, and Mamluks, this course will focus on a political, cultural and social examination of the modern history of Syria from

HIST-3354 The Modern History of the Persion Gulf Region Since 1500

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.

HIST-3-94 Public History Internship

The Public History internship is a structured and supervised professional work experience with an accepted historical or cultural institution, non-profit organization, or history-related sector within a private business enterprise. To be recognized, the experience must be preapproved and must include specific learning objectives, weekly and final reflections from the intern, and evaluations from the employer. An internship is typically done by a student who has attained sufficient preparation in the academic field of history. The experience may be paid or unpaid. Variations in credit according to hours performed, from 0 to 6 hours. Must be taken on a Pass/Fail basis. (Offered every semester). Prerequisite: Consent of the internship coordinator and the History Department chair.

Seminars

HIST-4400 Seminar in African History

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-4420 Seminar in Asian History

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-4430 Seminar in European History

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-4440 Seminar in Latin American History

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-4450 Seminar in Middle East History

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-4460 Seminar in United States History A

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-4470 Seminar in United States History B

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.

(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 any other major.

VI. The selection of courses must ensure depth in the area of study as well as breadth of exposure to varied perspectives.

Procedures

- I. 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.
- II. The Interdisciplinary Second Major Committee will consider this proposal and, if approved, will recommend it to the University Curriculum Council for final approval.
- III. The advisory committee will monitor the student's progress toward the major, provide guidance, and evaluate any changes to the course of study.
- IV. 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.

International Studies

Faculty

Dania Abreu-Torres, Ph.D., Associate Professor, Modern Languages and Literatures; Coordinator, Mexico, the Americas, and Spain (MAS) Rosa Aloisi, Ph.D., Associate Professor; Coordinator, International Affairs; Director of International Studies Rosana Blanco-Cano, Ph.D., Associate Professor, Modern Languages and Literatures Anene Ejikeme, Ph.D., Associate Professor, History; Coordinator, African Studies Nanette C. Le Coat, Ph.D., Associate Professor, Modern Languages and Literatures; Coordinator, European Studies Alfred Montoya, Ph.D., Associate Professor, Sociology and Anthropology; Coordinator, Global Health Studies Tahir H. Naqvi, Ph.d., Associate Professor, Sociology and Anthropology David Ribble, Ph.D., Professor, Biology; Coordinator, International Environmental Studies Eugenio Dante Suarez, Ph.D., Associate Professor, Finance and Decision Sciences Hyon Joo Yoo, Ph.D., Associate Professor, Political Science

Overview

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 Minor
- <u>The Concentrations</u>
- The Senior Experience
- Languages Across the Curriculum Program
- <u>Concentration Course Requirements</u>
 - African Studies
 - East Asian Studies
 - European Studies
 - Global Health Studies
 - Mexico, The Americas, and Spain Program
 - <u>Middle East Studies</u>
 - International Affairs

- International Environmental Studies
- Courses in the Languages Across the Curriuculum Program

The Major

The requirements for a Bachelor of Arts with a major in International Studies are as follows:

I. Program Requirements

- A. No fewer than 33 credit 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 3469 (U.S. Foreign Relations), PLSI 1342 (International Politics), or ANTH/SOCI 3349 (Globalization and Social Change)..
- 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.

The Minor

Concentration Course Requirements

Concentrations (*coordinator and head adviser)

African Studies

PHIL 3428	The Philosophies of China (also listed as CHIN 3428)
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- RELI 1330 Asian Religions
- RELI 3432 Buddhist Ecology
- RELI 3433 Chinese Religions: Unity and Diversity (also listed as CHIN 3433)
- **RELI 3434**

ARTH 1408	Art History II: Renaissance to Modern Art
ARTH 3360	Twentieth Century Art: Cubism to Conceptualism (c.1900-1970)

Economics

ECON 3343	Slavery and the Atlantic Economy (also listed as HIST 3384)
ECON 3351	Development of Economic Thought

English

ENGL 2301	British Literature: Old English to 1800
ENGL 2302	British Literature: 1800 to the Present
ENGL 3320	Modern Drama (also listed as THTR 3336)
ENGL 3367	British Literature: 1900-Present

History

HIST 1334	Early Modern Europe (1500-1815)
HIST 1335	Modern Europe
HIST 3332	Culture and Society in Early Modern Europe
HIST 3334	History of Russia
HIST 3335	The Enlightenment
HIST 3336	French Empire in the Americas
HIST 3337	History of France from the Old Regime to the Present
HIST 3382	The City in History
HIST 3384	Slavery and the Atlantic Economy (also listed as ECON 3343)

Human Communication and Theatre

THTR 3336 Modern Drama (also listed ENGL 3320)

Languages across the Curriculum Courses

INTL 3301	Paris: La biographie d une ville (Paris: The Biography of a City)
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INTL 3123 Deutsche Politik (German Politics)

Modern Languages and Literatures

FREN 3303	French Civilization
FREN 3305	Introduction to French Literature I
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
RUSS 3306 SPAN 3311	
	Introduction to Russian Literature II
SPAN 3311	Introduction to Russian Literature II Spanish Civilization

Music

MUSC 3341	Music History I: Ancient Greece to Baroque
MUSC 3342	Music History II: Classical Era to the Present

Philosophy

PHIL 3422	Classical Modern Philosophy
PHIL 3423	German Idealism

Political Science

PLSI 3330	European Politics
PLSI 3331	Comparative Political Economy of North America, Europe, and East Asia
PLSI 3435	Global City Berlin
PLSI 3362	Modern Political Thought
PLSI 3363	Masters of Suspicion: Contemporary Political Thought

Religion

RELI 3441	Creating Judaism
RELI 3442	The Christian Tradition
RELI 3443	Islamic Worlds

ANTH 3357	Pre-Columbian Art of Mesoamerica (also listed as ARTH 3335)
ARTH 3355	Pre-Columbian Art of Mesoamerica (also listed as ANTH 3357)
ARTH 1412	Art and Architecture of Latin America since the 16th Century
ARTH 3345	Spanish Colonial Art and Architecture in Mexico
ARTH 3354	Mexico City
ARTH 3461	Public Art across the Border
COMM 3120	La Telenovela en America Latina (also listed as INTL 3107)
ENGL 4323	Studies in American Literature: Literature and Culture in the Latina/o Borderlands
GNED 3326	U.S. Latino Cultural and Artistic Expression
INTL 3103	La Cultura Popular Española
INTL 3107	La Telenovela en America Latina (also listed as COMM 3120)
INTL 3119	Identidades juveniles en Latinoamérica: Música contemporánea y expresiones artisticas urbanas (Youth Identities in Latin America: Contemporary Music and Urban Artistic Expression)
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)
SPAN 3312	Spanish Cinema
SPAN 3322	Spanish American Cinema
SPAN 3331	Introduction to Spanish Literature since 1700
SPAN 4332	Spanish Golden Age Drama
SPAN 3332	Introduction to Spanish American Literature

History and Society (at least 6 hours)

ANTH 3349	Globalization and Social Change (also listed as SOCI 3349)
ANTH 3356	Seminar on the Ancient Maya
ANTH 3364	Economic Anthropology
BUSI 3340	Haciendo Negocios en Latinoam ´erica (also listed as INTL 3340)
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)
INTL 3101	La Economía Mexicana
INTL 3133	La República Dominicana
INTL 3340	Haciendo Negocios en Latinoamérica (also listed as BUSI 3340)
INTL 3346	The Spanish Economy in the European Union
INTL 3372	Internship in Spain
PLSI 3333	Latin American Politics
SOCI 3349	Globalization and Social Change (also listed as ANTH 3349)
SPAN 4350	History of the Spanish Language

Race, Ethnicity, and Gender Track (at least 3 hours)

ANTH 3327	Race in America (also listed as SOCI 3327)
ANTH 3343	Relaciones Fronterizas México-Estados Unidos (also listed as INTL 3343 and SOCI 3343)
ANTH 3367	South American Indigenous Peoples: Conquest and Development
HIST 3340	Latin American Perspectives
INTL 3104	La experiencia latina en los Estados Unidos
INTL 3105	La opinion pública del inmigrante: Trabajo de campo sobre migración mexicana
INTL 3106	Los Cubanos-Americanos
INTL 3118	Historia, Resistencia y Rebelión en la Música Chicana
INTL 3134	Culture, Identity, and Language in Contemporary Brazil
INTL 3343	Relaciones Fronterizas México-Estados Unidos (also listed as ANTH 3343 and SOCI 3343)
RELI 3480	U.S. Lating Deligious Dractices and Traditions
	U.S. Latino Religious Practices and Traditions

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 2356	The Qur an
RELI 3441	Creating Judaism
RELI 3443	Islamic Worlds

Sociology and Anthropology

SOCI 3391	Special Topics in Sociology: Modern South Asia: History, Culture, and Society
ANTH 3391	Anthropology Special Topics: Modern South Asia: History, Culture, and Society

International Affairs (Professor Rosa Aloisi*)

Requirements: a minimum of 15 hours in the following areas:

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)

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 1405	Oceanography
GEOS 3408	GIS and Remote Sensing
GEOS 3411	Hydrology

Humans and their Environment Area

Comparative Literature

CMLT 230	World Literature and the Environment	
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General Education

GNED 1306 Energy and Society

GEOS 1304 Environmental Geology

Physics and Astronomy

PHYS 1302	Frontiers of Physics
PHYS 1303	The Earth s Changing Environment

Sociology and Anthropology

ANTH 1301	Introduction to Anthropology
ANTH 2357	Humans and the Environment
ANTH 3349	Globalization and Social Change (also listed as SOCI 3349)
ANTH 3358	The Anthropology of International Relations
ANTH 3464	Morality in the Marketplace
ANTH 3367	South American Indigenous Peoples: Conquest and Development
SOCI 3349	Globalization and Social Change (also listed as ANTH 3349)

Urban Studies

URBS 3347 Urban Systems

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 preregistration 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:

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. Must be taken Pass/Fail.

INTL-3001 Studying Abroad

A course for students arranging to study abroad (or away) for academic credit. Includes academic planning including written proposals for study abroad; program selection and logistical planning for the time away; predeparture orientation; studies in cross-cultural communication and adjustment; and guided individual country studies and studies of US relations with the proposed host country. This course will be offered in the Fall of each year for students studying abroad in the Spring and in the Spring for students to study abroad in the Fall.

INTL-3315 Iceland - Its Unique Geological, Economic and Cultural History

This course will expose students to the unique economic, geologic, and cultural history of Iceland. The economic aspects will focus on the role of financial markets and monetary institutions in economic booms and crashes using Iceland as a case study, possible solutions to public good problems such as the Icelandic fishing quota, business practices which often prioritize protection of the environment and social responsibility, and the role of international trade in development of a small country. The geological history will emphasize Iceland's plate tectonic setting, volcanism, glacial history and related hazards, geothermal energy, and the effects of climate change. The cultural portion will explore the fundamental role of literature in a country with virtually no illiteracy, and the role of the sagas in the transmission of culture, language, and the law in the country with the oldest parliament in the world. (Also listed as BUSN 3315, ECON 3315, GEOS 3315, and PLSI 3315.) (Offered every other year).

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.

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.

INTL-3316 Gender, Race and Healthcare in Contemporary Cuba

This course explores the historical changes that have labeled Cuba as an island "lost in time" by focusing on three topics that are crucial for Cuba's global acknowledgement: gender, race and healthcare. These topics are deeply interrelated and in constant exchange with Cuba's economy and politics, as women and LGBT communities challenge their social participation, Afro-Cubans claim their space, and healthcare becomes threatened due to Cuba's slow movement to globalization. (Offered every other year.) Prerequisites: SPAN 2301 and Consent of Instructor

INTL-3357 Contemporary Japanese Politics and Society

This is a faculty-led, study abroad course that includes summer travel to Japan. The course exposes students to (A) Japan's historic and contemporary socioeconomic position in the region, (B) Japan's role as the technological and business innovation-hub of Asia, and (C) the rich fabric of Japanese culture, both traditional and contemporary. Students will meet with academic and business leaders; interact with Japanese college students; and participate in site visits to factories, museums, schools, and temples around Japan. (Offered every Spring.) Corequisites: BAT 3394

Courses in the Languages Across the Curriculum Program

LAC-2101 Biblical Hebrew

The primary goal of this course is to introduce students to ancient Hebrew so they will be able to read parts of the Hebrew Bible in the original language. This course begins with an introduction to the Hebrew alphabet and vowel system and therefore requires no prior knowledge of Hebrew. (Also listed as RELI 2101.)

LAC 3300 Mulauje Care Sita and the Bordan A Y Kash Américas An explorat 3:8 of the measan gende 10 coy

An exploration off the messoring emder, sexuality, and idensitive as approved check by the anotest distinguished to ender fes

completed, or be enrolled in, GNED 3325.

LAC-3105 La Opinion Publica Del in Migrante: Trabajo de Campo Sobre Migracion 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 the Instructor.

LAC-3106 Los Cubano-Americanos

This course explores significant cultural, artistic, cinematic, musical, sociopolitical, and literary representations from 1960 to the present. A principal objective is to analyze and deconstruct stereotypes about Cuban-Americans. This course is taught in Spanish. Prerequisite: SPAN 2302, the equivalent, or consent of instructor.

LAC-3107 La Telenovela En America 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.

LAC-3108 Tradiciones Culturales En América Latina

This is a companion course to HIST 1340, Latin American Cultural Traditions. It offers students the opportunity to augment the themes of the course through the perspectives of Spanish language authors who write about

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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 (zootsuiter) 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.

LAC-3119 Identidades juveniles en Latinoamerica: musica contemporanea y expresiones artisticas 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 the equivalent.

LAC-3120 La Inquisicion Y Hoy: 4 Judios de Monterrey

An exploration of various aspects of the "judeomexicana" (Mexican Jewish) experience in two key periods: the most repressive (the Inquisition) and the most florescent (the contemporary republic). This exploration will proceed primarily by exploring four key players, all of whom are connected to the city of Monterrey. (Offered every other semester.) Prerequisite: SPAN 2302 or equivalent

LAC-3123 Deutsche Politik (German Politics)

This course offers 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 the instructor.

LAC-3124 L'histoire francaise: un parcours cinematographique (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

LAC-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.

LAC-3133 La Republica Dominicana: Una Introduccion (An Introduction to the Dominican Republic)

is a requirement for participation in the course. (Also listed as ANTH 3343 and SOCI 3343.)(Offered occasionally.) Prerequisites: SPAN 2302 or equivalent Spanish competence

LAC-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.)

LAC-3346 La economia espanola y la Union 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 INTB 3346, ECON 3346 and SPAN 3346.) (Offered once a year). Prerequisites: ECON 1311, three additional hours in business or economics, SPAN 2302 or the equivalent, and consent of the instructor.

LAC-3372 Practica profesional en Espana (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 ECON 3372, INTB 3372, and SPAN 3372.) (Offered once a year). Prerequisites: ECON 1311, three additional hours in business or economics, SPAN 2302 or the equivalent, and consent of instructor.

LAC-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

Linguistics

Faculty

<u>Jane Childers, Ph.D.</u>, Professor, Psychology; Director <u>Rocio Delgado, Ph.D.</u>, Associate Professor, Education <u>Andrew Hansen, Ph.D.</u>, Associate Professor, Human Communication and Theatre <u>Mark C. Lewis, Ph.D.</u>, Professor, Computer Science <u>Michael Ward, Ph.D.</u>, Associate Professor, Modern Languages and Literatures

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:

Eighteen (18) credit 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.

Primary Curriculum

Core

HCOM 1305 Foundations of Linguistics (also listed as LING 1300)

COMM 3322

International Communication (also listed as HCOM 3374)

Computer Science

CSCI 3320	Principles of Theoretical Computer Science
CSCI 3368	Principles of Programming Languages
CSCI 3-94	Seminar: Provability
English	
ENGL 3346	History of the English Language
French	
FREN 3371	Introduction to Romance Linguistics (also listed as CLAS 3371, ITAL 3371, LING 3371, and SPAN 3371)
Human Communicat	tion
HCOM 3374	International Communication (also listed as COMM 3322)
Italian	
ITAL 3371	Introduction to Romance Linguistics (also listed as CLAS 3371, FREN 3371, and SPAN 3371)
Linguistics	
LING 3-90	Directed Studies Junior Level
LING 4-90	Directed Studies Senior Level
Philosophy	
PHIL 2340	Symbolic Logic I
PHIL 3431	Philosophy of Mind
PHIL 3340	Symbolic Logic II
PHIL 3433	Philopsophy of Language
Psychology	

Acceptance into Program

FULL ACCEPTANCE is granted if the following requirements are met at the time of application:

- I. MATH 1311, 1312, 2321, 3323 with grades of C or better.
- II. Grade point average of at least 2.0 in all mathematics courses.
- III. Completion of at least one mathematics course required for the major while enrolled at Trinity University.
- IV. 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. 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.

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

MATH-2321 Calculus III

The study of partial differentiation, multiple integrals, and vector calculus. Prerequisite: MATH 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: CSCI 1320 and MATH 1311

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-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 3336 may not both be taken for credit. Prerequisite: MATH 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. 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. Prerequisite: MATH 1312 or consent of i: v onsen. tion,L

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. (This course or MATH 3328 will be offered every other year.) 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

more of the following areas: linear algebra, differential equations, difference equations, numerical analysis,

Dynamics of first order difference equations, difference equations of higher order, stability analysis, methods of Z-transform. Offered infrequently. Prerequisites: 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. Fall. Prerequisites: MATH 3326.

MATH-3370 Financial Mathematics

Problems that arise in the area of finance and the mathematics of their solutions. Examples include portfolio selection, option pricing, arbitrage, single-agent optimization, the Fundamental Theorem of Asset Pricing, and the Black-Scholes formula. Prerequisites: MATH 1320 or 3320 or 3334 and MATH 3316 or 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 Course of Study Bulletin. Announcements of this course will be made by special prospectus. The course may be repeated for credit on different topics.

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 Major's 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

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. Prerequisite: 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. 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 3362 and 3323.

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-436555 Juggyology

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 for gleometrizet cloology. Fall an be c.tric O o Po o q f Se: gy

Course will vary in credit according to scope of work included. This course cannot be used to satisfy the 4000-level Mathematics major elective requirement. May be repeated when topics vary. One to three credit hours. (Offered Occasionally). Prerequisite: Consent of the Instructor

ARTH 3442	Age of Leonardo: Art and Architecture in Italy, 1475-1568 (R)
ARTH 3447	Michelangelo: A Media-based Approach (R)
ENGL 3457	Medieval Christian Mysticism (M)
ENGL 4401	Geoffrey Chaucer (M)
ENGL 4420	Studies in Early Modern British Literature (R)
HIST 1332	Medieval Europe (M)
HIST 1333	Medieval Christianity: Tradition and Transformation, 200-1200 (M)
HIST 1350	Medieval Islamic History, 570-1517 (M)
HIST 2430	Medieval Kingship: Power, Patronage, and Propaganda (M)
PHIL 3412	Late Ancient and Medieval Philosophy (M)

b. The remaining credit hours may be fulfilled by courses in either the Primary or Supporting curriculum.

- II. At least 6 hours from the Primary Curriculum must be in Medieval (M or MR) courses and at least 6 hours from the Primary Curriculum must be in Renaissance (R or MR) courses.
- III. At least 9 credit hours of the total to be in upper division courses.
- IV. No more than 8 credit hours to overlap with the student s primary major.
- V. No more than 12 credit hours 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/or 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 2430	Art and Patronage at the Court of Burgundy (MR)
ARTH 3339	Art at the Courts of Europe, c. 1330-1416 (M)
ARTH 3440	Northern Renaissance Art in the Fifteenth Century (MR)
ARTH 3441	Early Renaissance Art in Italy (R)
ARTH 3442	Age of Leonardo: Art and Architecture in Italy, 1475-1568 (R)

ARTH 3344	Northern Renaissance Art in the Sixteenth Century (R)
ARTH 3446	Jan van Eyck and His Legacy (MR)
ARTH 3447	Michelango: A Media-based Approach (R)
ARTH P 3392 @4Ry (M)	Women s Studies in Art History: Gender and Sexuality in Early Modern Italy (MR)
ENGL 2301	British Literature: Epic to Romantic
ENGL 3161	Early Books and Manuscripts Lab (MR)
ENGL 3346	History of the English Language (MR)
ENGL 3456	The Epic Legacy: Imagining Antiquity in the Middle Ages
ENGL 3456	The Epic Legacy (M)
ENGL 3457 MR)	R))eGle&al57hristian Mysticism
EMRO)L 3457/RE sm	

PHIL 3412	Late Ancient and Medieval Philosophy (M)
PHIL 3422	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 Literature (MR)

II. Supporting Curriculum

ARTH 1407	Art History I: Prehistoric through Medieval Art
ARTH 1408	Art History II: Renaissance to Modern Art
ARTH 3330	Art and Architecture in the Late Classical World
ARTH 3343	Italian Baroque Art
ARTH 3345	Spanish Colonial Art and Architecture in Mexico
CLAS 3404	The Ancient Romance and Novel
FREN 3305	Introduction to French Literature I
FREN 4303	Topics in French Literature of the Seventeenth Century
GERM 3305	Introduction to German Literature I
GREK 2303	Readings in the New Testament
HIST 1334	Early Modern Europe
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 3441	Creating Judaism
RELI 3442	The Christian Tradition
RELI 3443	Islamic Worlds
RELI 3454	The Letters of Paul
RUSS 3303	Russian Culture
RUSS 3305	Introduction to Russian Literature I

SPAN 3311

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ECON 4370	Econometrics
MATH 1311	Calculus I
MATH 1312	Calculus II
MATH 2321	Calculus III
MATH 1320 or BAT 2301	Statistical Methods or Statistics for Business and Economics*
MATH 3370	Financial Mathematics
MATH 3316	Differential Equations and Linear Algebra

Modern Languages and Literatures

Faculty

Dania Abreu-Torres, Ph.D., Associate Professor, Spanish Danny J. Anderson, Professor, Spanish; President of the University Carlos X. Ardavin Trabanco, Ph.D., Professor, Spanish Alan Astro, Ph.D., Professor, French Rosana Blanco-Cano, Ph.D., Associate Professor, Spanish Norma Cantu, Ph.D., Norine R. and T. Frank Murchison Professor of the Humanities, Spanish Jesus Castro Gorfti, Ph.D., Lecturer, Spanish Nina C. Ekstein, Ph.D., Professor, French Stephen Lee Field, Ph.D., J. K. and Ingrid Lee Endowed Professor of Chinese Language and Literature Jinli He, Ph.D., Associate Professor, Chinese Bruce T. Holl, Ph.D., Associate Professor, Russian; Chair Maria Holl, M.A., Lecturer, Russian Nanette C. Le Coat, Ph.D., Associate Professor, French Pablo A. Martinez, Ph.D., Associate Professor, Spanish Ana Maria Mutis, Ph.D., Assistant Professor, Spanish Debra Ochoa, Ph.D., Associate Professor, Spanish Nicholas Reynolds, Ph.D., Lecturer, German Bladimir Ruiz, Ph.D.

Global Latinx Studies is an interdisciplinary analysis of the Latinx experience from the past to the present, in an interdisciplinary space that includes modern languages, and spans the humanities, the natural sciences, and the social sciences. The major encompasses, but is not confined to, the communities of the Americas, the Iberian Peninsula, and the Caribbean. It especially focuses on the Latinx diasporas throughout the world, including communities with a shared colonial past with Spain and Portugal.

Students develop their knowledge of and commitment to Latinx Studies through coursework in leadership development, intercultural capacities, and linguistic fluency as well as disciplinary courses in history, economics, cultural studies, and religion.

In addition, the program fosters close ties between the University and the Latinx community in San Antonio through internships, service-learning, and other opportunities. Majors are strongly encouraged to participate in study-abroad programs.

A signature aspect of the major will be a senior portfolio that ties together the many strands of a Global Latinx major s course of study. This reflects on the interdisciplinary links between at least three different courses and represents the culmination of personal and professional growth in the understanding of Latinx communities in the Americas and beyond.

Requirements

- The Major
 - Chinese
 - French
 - German Studies
 - Global Latinx Studies
 - <u>Russian</u>
 - Spanish
- The Minor
- Transfer Credit
- The Honors Program
- Self-Instructional Language Program
- Modern Languages and Literatures

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. Departmental requirements:

- A. Completion of 21 credit hours of upper division taught in Chinese, including CHIN 4351.
- B. Completion of one of the following additional requirements:
 - 1. Nine additional credit hours of upper division courses in Chinese.
 - 2. Three upper division credit hours in another language plus six additional credit hours in other courses approved by the major advisor and the department chair.
- C. Completion of at least one semester or summer abroad in a Chinese-speaking country.

II. University requirements: completion of all other required elements of the Pathways curriculum and at least 124 credit hours.

French

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

I. Departmental requirements:

A. Completion of 21 credit hours of upper division courses, including:

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 exception:

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.

B. Completion of one of the following additional requirements:

- 1. Nine additional credit hours of upper division courses in French; OR
- 2. Three upper division credit hours in another language plus six additional credit hours in other courses approved by the major advisor and the department chair.

II. University requirements: completion of all other required elements of the Pathways curriculum and at least 124

credit hours.

German Studies

GRST 3401

A total of 21 credits from the concentrations listed below. At least 12 credits must be from ONE single concentration.

1) History and Society

ANTH 1305	Introduction to Pre-historical archaeology
ANTH 3356	

Students have the option of substituting up to 9 credit hours from the following courses: ARTH 3362; ECON 3327; HIST 3311; PLSI 3335; OR

2. Three upper division credit hours in another language plus six additional credit hours in other courses approved by the major advisor and the department chair.

II. University requirements: completion of all other required elements of the Pathways curriculm and at least 124 credit hours.

Spanish

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

I. Departmental requirements:

A. Completion of 21 hours, of which no more than 3 mat 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 credit 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. Three upper division credit hours in another language plus six additional credit hours in other courses approved by the major advisor and the department chair.

II. University requirements: completion of all other required elements of the Pathways curriculum and at least 124 credit hours.

The Minor

The requirements for a minor in Chinese, French, German, Russian, and Spanish are as follows: Completion of at least 18 credit 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.

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.

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, 2401, 2302, or 2402 consist of intermediate level language study, focusing on speaking, reading, grammar, writing, and comprehension.

Language courses 1401, 1402, 1403, 1600, 2301, or 2401 may be taken pass/fail unless the student is using them to satisfy the foreign language requirement of the Pathways curriculum.

Courses

Modern Languages and Literature

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 GNED 1303.)

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&L33B1ArEIveDicabetraiaema

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:

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. Prerequisite: None.

ML&L-3343 The Culture of Russia

A survey of religion, music, architecture, folklore, and fine arts in European Russia 988-1917 CE through lectures, discussions and readings from primary sources.

ML&L-3344 Russian Cinema

A survey of Russian films from a variety of periods with an emphasis on how the films reflect Russian history and culture, and how they illustrate the development of Russian cinema.

ML&L-3401 Yiddish Language, Culture and Film

A survey of fundamentals and research topics in Yiddish language and its history, as well as the culture of Eastern European Jewry in its pre-Holocaust homelands and its countries of immigration. Language, scholarship and film will be vehicles of entry into the universe of a language classified by UNESCO as "seriously endangered." (Also listed as GRST 3401.) (Offered occasionally).

ML&L-3-91 Selected Topics

Special Study in fields not covered by other courses. May be repeated on different topics.

ML&L-3350 Genres in Creative Writing

Study in the theory, technique, and practice of a variety of creative writing genres. Individual offerings may focus on poetry, fiction, or creative non-fiction. May be repeated when topics vary. ML&L 3350 and SPAN 4301 cannot both be taken for credit if the topic is the same. (Offered every year).

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.

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Chinese - Upper Division

CHIN-3300 Advanced Placement Credit in Chinese

Credit for a 4 or 5 on the Chinese Language AP exam.

CHIN-3100 Conversational Chinese II

An upper division course in conversational Chinese for students enrolled in a Trinity sponsored faculty-led study abroad program. Prerequisites: CHIN 2402 or the equivalent, or Consent of Instructor

CHIN-3401 Advanced Chinese I

Continued study of Chinese grammar and colloquial speech patterns. 4 class hours a week. (Offered every semester) Prerequisite: CHIN 2402 or the equivalent, or consent of the instructor.

CHIN-3402 Advanced Chinese II

Continuation of CHIN 3401. 4 class hours a week. (Offered every semester). Prerequisite: CHIN 3401 or the equivalent, or consent of instructor.

CHIN-3305 The Culture of Taiwan

This course will focus on aspects of the culture of Taiwan from the prehistoric period down to the present. Lectures and discussion will address the important topics of colonial and post-colonial history and politics, but will also cover such aspects of Taiwanese culture as linguistic diversity, folk religion, architecture, art, and cuisine. Course taught in English.

CHIN-3310 Chengyu Tales

This course will introduce the contemporary use of "chengyu," or classical idiom, by analyzing the tales from which the phrases originated in ancient China and discussing their function in modern speech. (Offered every Spring.) Prerequisite: CHIN 3401

CHIN-3311 Reading Chinese Newspapers

This course develops students' newspaper reading skills in Chinese. It focuses on the history, convention, and changing face of Chinese newspapers and introduces the syntactic features of Chinese news writing. (Offered every other year.) Prerequisite: CHIN 3401

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.

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 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 HIST 3320.) Prerequisite: HIST 1320 or consent of instructor.

CHIN-3376 Contemporary Chinese Art

This course covers the development of art in China from 1976 (post-Cultural Revolution) to the present, including

CHIN-3433 Chinese Religions: Unity and Diversity

Chinese 3433 explores Chinese religion through an in-depth study of its formative texts and historical evolution to the modern era. Emphasizing original sources in translation as well as critical studies by modern scholars, the course examines the cosmological framework of Chinese religion as well as attitudes towards religious belief and practice reflected in scripture, commentaries, and philosophical works. Students will conduct original research on Chinese religion in its contemporary manifestations. (also listed as RELI 3433.) Prerequisite: RELI 1330 or consent of instructor

CHIN-3443 Chinese Foreign Policy

An examination of Chinese foreign policy by focusing on leadership, economic conditions, political settings, public opinion, and China's relations with other countries. Includes a brief exploration of the historical role of China in International Politics. Taught in English. (also listed as PLSI 3343).

CHIN-3366 Governance and Public Policy in Contemporary China

This course covers most significant issues of contemporary policies and public policy in China. It explores the forces changing the lives of nearly a fifth of humanity, the 1.1 billion people of China. This course is designed to be experimental in both subject and teaching methodology. In order to explore the political, economic, and social processes of liberalization that have created this new era of the increased circulation of people, ideas, commodities and technologies across national boundaries, seminar participants must use materials and methods from many scholarly disciplines and traditions: urban studies, political science, sociology, history, anthropology, economics, and media/cultural studies. In order to study these increasingly mobile populations that often fall outside the boundaries of conventional area studies approaches, students must develop innovative comparative case study and survey methodologies. (Also listed as PLSI 3366, URBS 3366).

CHIN-3367 Comparative Views of Modern China

This course represents an overview of the most important economic relationship of the twenty-first century. The global financial crisis that started in 2008 revealed just how much the strategic relationship between China and the United States represents the heart of the world's economy. China has recently surpassed Japan to become the world's second largest economy and America's third largest commercial partner. The rise of China has brought about a reorganization of the global economy and the international balance of power. This new world order carries challenges and opportunities. China remains a communist country with a significant legacy of a command economy. It is also a market economy. Understanding this mixture - capitalism with Chinese characteristics or the Chinese variety Capitalism - is the major aim of this course. We also cover topics relevant to the economic relationship between China and the USA, including international trade and the balance of trade, the Chinese currency system, the growth of China and its growing influence in the international sphere. (Also listed as ECON 3367, BUSN 3367, and URBS 3367.)

CHIN-4310 Advanced Conversation and Composition I

An advanced course in Chinese conversation and composition. (Offered every Fall) Prerequisite: CHIN 3402 or the equivalent.

CHIN-4311 Advanced Conversation and Composition II

Continuation of CHIN 4310.

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 3402 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 3402 or the equivalent, or permission 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/CHIN 3330

CHIN-4351 Classical Chinese

A study of classical Chinese grammar with selected readings form classical Chinese literature. Prerequisite: CHIN 2402 or the equivalent.

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

FREN-3300 Advanced Placement Credit in French

Credit for a 4 or 5 on the French AP exam.

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-3302 Advanced Conversation and Composition

This course focuses on developing and improving speaking and writing skills in a variety of contexts, with a focus on style. Students will develop a broad and fairly sophisticated range of French vocabulary. (Offered every third semester.) 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

Independent study in selected areas in preparation for Honors Thesis. Prerequisite: Admission to Honors Program.

FREN-4303 Topics in French Literature of the Seventeenth Century

May be taken more than once, provided topics vary. Prerequisites: 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. Prerequisites: 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 topic 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. Prerequisite: 6 upper-division hours in French

FREN-4308 Four Works of Nineteenth-Century Fiction

An intensive study of works of fiction by Balzac, Constant, Flaubert and Merimee. (Offered occasionally). Prerequisite: FREN 3301 or consent of instructor

FREN-4309 Survey to Francophone Literature

Introduction to Francophone Literature explores the literary works of French-speaking writers from three parts of the world: the Caribbean, Sub-Saharan Africa, and North Africa (Algeria, Morocco, and Tunisia). It also considers the critical, social, and cultural questions posed by a literary tradition that was born in the Colonial and Post-Colonial era. Some questions addressed will be: How do the writings of French-speaking authors from these regions define an independent national identity? How do these texts challenge the values and social norms of

Colonial and Post-Colonial society? What relationship exists between these francophone authors and the French "metropole?" What narrative and stylistic innovations do these authors introduce? And, in what way have these new voices succeeded in transforming and enriching contemporary literature? Prerequisite: FREN 3305, 3306 or the equivalent, or consent of instructor.

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 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.

FREN-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.

German - Upper Division

GERM-3300 Advanced Placement Credit in German

Credit for a 4 or 5 on the German AP exam

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 in areas not covered by other courses. Prerequisites: 6 upper division hours in German and consent 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 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.

GERM-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.

German Studies

GRST-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 se01 ohe fo2 d, and a jands

GRST-3332 History of Theatre II: From Romanticism To Performance Art

This course explores influential developments in theatre of the past two centuries, including romanticism, melodrama, realism, futurism, dada, expressionism, epic theatre, Broadway and West End musicals, American family drama, regional repertory theatres, international theatre festivals and late twentieth century experimental performance art. Using historical and critical writings, dramatic texts, photography and video resources, the course analyzes theatrical movements in their historical, aesthetic, and social contexts. (Also listed as THTR 3332.) (offered every Spring)

GRST-3334 Modern Germany

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 MUSC 3350.) Prerequisite: MUSC 1204 or Consent of Instructor

GRST-3440 Northern Renaissance Art in the Fifteenth Century

The 15th Century saw an explosion in artistic production in Northern Europe. Technical advances, increasingly sophisticated markets, and an unquenchable thirst for images, meant that commissioning and owning works of art were no longer the preserve of kings and popes. The course explores this phenomenon by considering how art was made, valued, and viewed in France, Germany, and the Netherlands, from c. 1400 to c. 1500. Key themes, including the role of the altarpiece, popular devotion, technical innovations, and the international demand for Northern art, are explored through the work of Van Eyck, Van der Weyden, Memling, Schongauer, and their contemporaries. (Also listed as ARTH 3440.)(Offered every other year). Prerequisite: Completion of 3 semester hours of Art History, or Sophomore standing, or consent of instructor.

GRST-3460 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 PHIL 3423.) (Offered every other year). Prerequisite: Any course in philosophy or consent of instructor.

GRST-3461 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

Italian - Upper Division

grammar. Prerequisite: RUSS 2302 or the equivalent.

RUSS-3302 Advanced Russian II

Students choose and read articles from the Russian Press, summarize them in written form, give presentations based on their articles, and discuss the articles with classmates. The instructor provides pre-reading materials and grammar explanations as necessary. (Offered every Spring). Prerequisite: RUSS 2302, or the equivalent (as determined by the Department of Modern Language and Literatures). Prospective students with a background in Russian who have not taken RUSS 2302 should speak to one of the Russian instructors prior to registration.

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 its 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

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Individual work under faculty supervision in areas not covered by other courses. Prerequisites: RUSS 2302 or the equivalent and approval of 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 equivalent

RUSS-4398 Honors Thesis

Individual research and scholarly investigation under faculty supervision leading transformer faculty supervision leading tran

The course contains an integrated study of the language and cultures of Spain and the Americas. Designed to help students adquire and strengthen Spanish language skills and cultural competence, the course will implement a systematic four-skills practice (speaking, listening, reading, and writing) and include a variety of literary and cultural readings as well as short films from Spanish speaking countries. This is a six-credit course that will be taken abroad (Spain or Latin America) as part of a Trinity faculty-led semester abroad. The class seeks to incorporate some of the planned academic experiences that students in the semester abroad will have. Successful completion of this course will fulfill the Foreign Language requirement within the Pathways curriculum. (Offered every Fall.) Prerequisite: SPAN 1600, or 1403 or the equivalent.

Spanish - Upper Division

SPAN-3301 Advanced Grammar

SPAN-3301 Addrasived & interviola & panish grammar, practical application through written and oral exercises, and through reading of appropriate text materials. Prerequisite: SPAN 2302 or the equivalent.

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-3341 Peoples of Spain

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. (Same as FREN 3371, ITAL 3371, and CLAS 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 INTB 3372, ECON 3372, and LAC 3372.) (Offered once a year). Prerequisites: ECON 1311, three additional hours in business or economics, SPAN 2302 or the equivalent, and consent of instructor.

SPAN-3-91 Special Topics

instructor.

SPAN-4333 Don Quijote

A study of Cervantes 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 Bazan, 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 Lit 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-4345 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.

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-4-97 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 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.

SPAN-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.

SPAN-4301 Genres in Creative Writing

Study in the theory, technique, and practice of a variety of creative writing genres. Individual offerings may focus on poetry, fiction, or creative non-fiction. May be repeated when topics vary. ML&L 3350 and SPAN 4301 cannot both be taken for credit if the topic is the same. (Offered every year).

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Requirements

- The Degree Bachelor of Arts
- Bachelor of Music, Major in Performance
- Bachelor of Music, Major in Composition
- Bachelor of Music (Pre-Certification), emphasis on either Choral, Instrumental, or Elementary Music
- Minor in Music
- <u>Music Individual Instruction Courses</u>
- Department of Music Tuition

The Degree - Bachelor of Arts

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

I. Departmental requirements: A minimum of 36 credit hours in music including: 1000 (7 semesters), 1103, 1104,

IV. University Requirements: completion of all other required elements of the Pathways curriculum and at least 124 credit hours.

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 25 hours including: 1000 (4 semesters), 1103, 1104, 1113, 1114, 1203, 1204; 3341, 3342, 4 credits of applied music in one area (2 of which must be at the level of 21– or above), 4 credits of large ensemble, and an additional 3 upper-division credits (which may be satisfied by either applied music lessons or an upper-division music course).

Music Individual Instruction Courses

Individual instruction is provided as follows:

- I. One three-quarter hour lesson per week for a semester earns 1 credit hour.
- II. One hour lesson per week for a semester earns 2 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 mon-minors. Thus, for example, MUSI 2200 indicates a second year level, two credit hour individual instruction course in voice for music majors, while MUSI 2102 indicates a second year level, one credit hour individual instruction course in voice in voice for non-majors/non-minors.

Voice	00-03	French Horn	44-47

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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 Trinity University Handbell Ensemble

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. Corequisites: MUSC 1203 and 1113 or consent of Instructor. Pre Requisites: MUSC 1301 or placement exam.

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. Corequisites: MUSC 1204 and 1114 or consent of instructor. Prerequisites: MUSC 1103 or consent of instructor.

MUSC-1113 Keyboard Skills 1

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. Corequisites: MUSC 1203 and 1103 or consent of instructor. Prerequisite: MUSC 1301 or placement exam.

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. Corequisites: MUSC 1204 and 1104 or consent of instructor. Prerequisites: MUSC 1113 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. Corequisites: MUSC 1103 and MUSC 1113 or consent of instructor. Prerequisite: MUSC 1301 or placement exam.

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. Corequisite: MUSC 1104 and MUSC 1114 or consent of instructor. Prerequisites: MUSC 1203 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. Corequisites: MUSC 2203 and 2113 or consent of instructor. Prerequisites: MUSC 1104 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. Corequisites: MUSC 2204 and 2114 or consent of instructor. Prerequisites: MUSC 2103 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. Corequisites: MUSC 2203 and 2103 or consent of instructor. Prerequisites: MUSC 1114 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. Corequisites: MUSC 2204 and 2104 or consent of instructor. Prerequisites: MUSC 2113 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. Corequisites: MUSC 2103 and 2113 or consent of instructor. Prerequisites: MUSC 1204 or consent of instructor.

MUSC-2204 Music Theory IV

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

MUSC-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.

MUSC-4202 Composition

A continuation of MUSC 3203, 3204. Composition in larger forms and for larger aggregations of voices and instruments. Prerequisites: MUSC 3204 and consent of instructor.

MUSC-4203 Composition

A continuation of MUSC 3203, 3204. Composition in larger forms and for larger aggregations of voices and instruments. Prerequisites: MUSC 3204 and consent of instructor.

MUSC-4301 Orchestration and Arranging

A study of the families of instruments and voices, incgat our8 oices, dati.eicac soou, Apiinicadivvoicess and

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

business of running a modern orchestra through lectures and readings in arts management. (Offered every year).

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: Consent of instructor or MUSC 1301,1340.

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-1347 Introduction to Film Music

An exploration of the psychology, theory, and practice of film music, this course studies the development of film scoring and the relationship of music to meaning and expressiveness in film. The class includes evaluation of different compositional styles and learning to listen critically to film scores. The course is designed so that a background in music or film history or theory is not necessary. The main requirement is a willingness to listen carefully and to articulate what you hear. (Offered every Fall).

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

led to the development of the Broadway musical as an American tradition. (Also listed as THTR-2301).

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, guests 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 GNED 2340.)

MUSC-3341 Music History I: Ancient Greece to Baroque

A survey of music in the Western art music tradition, beginning with ancient Greece and continuing through the music of late eighteenth century. Important composers covered include Bach, Handel, Vivaldi, Monteverdi, and Josquin. Although designed as Part I of a two-semester history sequence, this course may be taken independently. (Also listed as GRST 3341.) (Offered every Fall). Prerequisite: MUSC 1204 or consent of instructor.

MUSC-3342 Music History II: Classical Era to Present

A survey of important figures and developments in Western art music from the early Classical era through the present, beginning with the music of Haydn, Mozart, and other representative figures from the later eighteenth century. Topics to be studied include the rise of the symphony genre, nineteenth-century opera, Wagner, and the influence of Beethoven on later composers. The course concludes 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.)(Offered every Spring. 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-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 MUSC 1203, or consent of instructor.

MUSC-3350 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-3458 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 PHIL 3458.) (Offered every other year). Prerequisite: Any course in Philosophy or MUSC 1301 or MUSC 1203 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. Prerequisite: 6 semester hours of music in the upper division and approval of the Department Chair.

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

<u>Neuroscience</u>

Faculty

<u>Gerard Beaudoin III, Ph.D.</u>, Assistant Professor, Biology Kwan Cheng, Ph.D.

NEUR 3457	Neurobiology
NEUR 4000	Neuroscience Seminar (three semesters)
NEUR 4100	Neuroscience Capstone Seminar
B. Supporting co	urses in biology (12 hours):
BIOL 1311	Integrative Biology I
BIOL 1111	Introductory Biology Laboratory
BIOL 2312	Cells and Cell Systems
BIOL 2112	Cell Systems Laboratory
BIOL 3413	Genes, Phenotypes, and Evolutionary Dynamics
C. Supporting co	urses in chemistry (8 hours):
CHEM 1318	General Chemistry
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 (12-16 hours).

Students must, in consultation with a Neuroscience advisor, develop a program of study, provide a written articulation of their academic and vocational goals, and discuss how their proposed program of study will move them toward these goals. The program of study will be presented to the committee when the major is declared. The committee will approve the program or suggest changes.

Biology

BIOL 3420	Animal Behavior
BIOL 3462	Vertebrate Physiology
BIOL 3463	Developmental Biology

BIOL 3459	Endocrinology
BIOL 3466	Cell Biology
Chemistry	
CHEM 3330	Biochemistry I
CHEM 4347	Advanced Interdisciplinary Topics: Neurochemistry
Neuroscience	
NEUR 3310	Neuroethics
NEUR 4390	Research in Neuroscience
Philosophy	
PHIL 3431	Philosophy of Mind
PHIL 3432	Philosophy of Science
PHIL 3459	Biomedical Ethics
Physics	
IYS 3311	Principles of Biophysics
Psychology	
PSYC 2330	Fundamentals of Cognition
PSYC 3311	Sensation and Perception
PSYC 3312	Principles of Learning
PSYC 3431	Memory and Cognition
PSYC 3340	Psychopathology

II. University Requirements: completion of all other required elements of the Pathways curriculum and at least 124 credit hours.

Guidelines for Acceptance of Majors

Full acceptance in the major is granted when the following requirements are met:

- I. Completion of NEUR 2310/2110 and PSYC 2401 with grades of C or better in each class.
- II. Completion of BIOL 1311/1111 and CHEM 1318/1118 with grades of C- or better in each class.
- III. An overall grade point average of at least 2.0.

A student may not earn a major in Neuroscience and another major in Biology. A student may not earn a major in Neuroscience and a minor in Psychology. If a student wishes to major in both Neuroscience and Psychology, a

NEUR-4100 Neuroscience Capstone Seminar

During the Capstone Seminar students will reflect on their Program of Study, articulate any modifications or additions made to this plan, and discuss the progress made toward meeting objectives and goals. Additionally, students are expected to attend the Neuroscience Seminar each week, participate in discussion with guest speakers, participate in professional development activities (such as preparing a c.v., personal statement), and give a presentation during Neuroscience Seminar. The underlying philosophy of the course is designed to encourage reflection and critical thinking, and to enhance written and oral communication skills. (Offered every semester.) Prerequisites: Graduating senior status and three semesters of NEUR 4000.

NEUR-4390 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. (Offered every semester.) Prerequisites: Consent of instructor, and NEUR 3-90.

NEUR-4395 Thesis I

This course provides an opportunity for independent research and scholarly investigation in conjunction with faculty supervisors within the Neuroscience program. With NEUR 4396, this will result in the preparation of a written thesis. Students must submit a formal research proposal to the Program Chair prior to the semester of enrollment in the course. (Offered every semester.) Prerequisites: NEUR 3-90, senior standing, permission of the Program Chair

NEUR-4396 Thesis II

This course is a continuation of research projects begun under NEUR 4395. Students are required to write a thesis and give an oral presentation of the project in the Neuroscience Seminar. (Offered every semester.) Prerequisite: NEUR 4395 and consent of instructor.

New Media

Faculty

<u>Brian Bondari, D.M.A.</u>, Associate Professor, Music <u>Aaron Delwiche, Ph.D.</u>, Professor, Communication; Director <u>Robert Huesca, Ph.D.</u>, Carlos Augustus de Lozano Professor of Journalism, Communication <u>Paul Myers, Ph.D.</u>, Professor, Computer Science <u>Adam Schreiber, M.F.A.</u>, Assistant Professor, Art <u>Erin M. (Bryant) Sumner, Ph.D.</u>, Associate Professor, Human Communication and Theatre

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:

At least 19 credit hours, with no more than 10 hours in any one subject area, and at least 6 upper-division hours.

Required courses: 10 hours

ART 2452	Digital Photography
COMM 3344*	Interactive Multimedia Communication [one of three topics: 1) Web Design; 2) Interactive Narratives; 3) Mobile Gaming]
CSCI 1311	Introduction to Programming Logic (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) Mobile Gaming]
CSCI 3353	Graphics
ENGR 1381	Engineering Analysis and Design I
MUSC 3305	Electronic Music
THTR 2313	Experiential Design

Context: 3 hours

ART 3314	Issues in Contemporary Art
ARTH 1408	Art History II: Renaissance to Modern Art
ARTH 3360	Twentieth-Century Art
ART 3365	Contemporary Architecture
CLAS 2406	Technology and the Classical World
COM 3328	Media, Culture, and Technology
HCOM 3332	Computer-Mediated Communication and Social Relations
PHIL 3431	Philosophy of Mind
PHIL 2455	Aesthetics
PSYC 2330	Fundamentals of Cognition
PSYC 3341	Social Psychology
THTR 2310	Principles of Design

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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.

PHED-2-99 Wellness Practicum

The general objectives of the course are to have students learn how to implement, coordinate, and evaluate peer led wellness programs. A key component of the wellness initiative on campus is to run programs that are led by peers (i.e., peer educator model), which increases student investment in wellness and creates leadership opportunities. The aim of this course is to provide more in depth experiential learning for students who assist in the development, coordination, and assessment of peer led wellness programs on campus. Specifically, students will gain first-hand experience with peer leader training, outreach, recruitment, social media skills, and fidelity observations. Plus, students will track, input, and analyze data from wellness workshops. Lastly, students will create and utilize partnerships and collaborations with other on campus groups.

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. Prerequisite: PHED 1111 or consent of instructor

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-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. Prerequisite: PHED 1122 or Consent of Instructor

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-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

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-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. Prerequisite: PHED 1142 or consent of the instructor

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-1146 Roller Skating I

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-1147 Roller Skating II

Introduction to advanced quad-roller skating techniques.

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. Rhythmical 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,

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.

PHED-1170 Lyrical Dance

Introduction into Lyrical style dance. This course is designed to teach continuing technique and terminology to the intermediate dancer. The instructor hopes to educate dancers on the nuances of lyrical and allow students to form a great appreciation of the style. (Offered every semester.) Prerequisites: PHED 1151, 1158, or consent of instructor

PHED-1171 Basketball II

Review of basic fundamentals and advanced play. Designed for students who have played previously and want to continue in their development. (Offered occasionally.) Prerequisite: PHED 1141 or consent of the instructor.

Philosophy

Faculty

<u>Curtis Brown, Ph.D.</u>, Professor <u>Andrew Kania, Ph.D.</u>, Professor <u>Steven Luper, Ph.D.</u>, Professor; Chair <u>Judith Norman, Ph.D.</u>, Professor

Requirements

• The Major

• The Minors

• Departmental Honors Program

The Major

To be accepted as a major in philosophy, students must have taken three hours in philosophy. The requirements for the degree of Bachelor of Arts with a major in philosophy are as follows:

I. Departmental requirements

- A. 34 hours in philosophy, at least 24 of which must be upper division.
- B. All of the following three courses:

PHIL 2340	Symbolic Logic I
PHIL 3410	Classical Greek Philosophy
PHIL 3422	Early Modern Philosophy
C. One of the follo	wing two courses:
PHIL 3430	Metaphysics
PHIL 3439	Epistemology
D. One of the follo	owing four courses:
PHIL 4491	Seminar on a Philosophical Problem

PHIL 4493 Seminar on a Philosophical Movement

PHIL 4395 Senior Thesis

II. 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, 12 of which must be upper division.

B. One of the following two courses:

PHIL 3422 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 12 must be upper division.

B. Three of the following courses:

PHIL 1350	Environmental Ethics
PHIL 2457	Meaning of Life
PHIL 3450	Metaethics
PHIL 3451	Social and Political Philosophy
PHIL 3452	Ethical Theory
PHIL 3453	Philosophy of Law
PHIL 3454	Philosophy of Gender
PHIL 3459	Biomedical Ethics

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 12 must be upper division.

B. Three of the following courses:

PHIL 2455	Aesthetics
PHIL 3457	Philosophy of Film
PHIL 3458	Philosophy of Music
PHIL 3460	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 12 must be upper division.
- B. PHIL 2340 Symbolic Logic I
- C. Three of the following courses:

PHIL 1341	Tools for Reasoning
PHIL 3431	Philosophy of Mind
PHIL 3432	Philosophy of Science
PHIL 3439	Epistemology
PHIL 3340	Symbolic Logic II
PHIL 3343	Nonclassical Logics

V. Minor in the History of Philosophy

The requirements for a minor in the history of philosophy are as follows:

- A. 18 hours in philosophy, of which at least 12 must be upper division.
- B. PHIL 3410 Classical Greek Philosophy
- C. PHIL 3422 Early Modern Philosophy
- D. At least 2 of the following courses:

PHIL 2425	Existentialism
PHIL 3411	Hellenistic Philosophy
PHIL 3412	Late Ancient and Medieval Philosophy
PHIL 3423	German Idealism
PHIL 3426	

PHIL-1354 Ethics

An introduction to traditional and contemporary problems and theories in ethics.

PHIL-1359 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.

PHIL-2425 Existentialism

The development of existential thought from the writings of Kierkegaard and Nietzsche to more recent work by Heidegger, Sartre, and Camus. (Offered every other year).

PHIL-2438 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 2460.)

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-2455 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.

PHIL-2456 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-2457 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-2460 Ancient Science and Medicine

An overview of science and medicine in antiquity, with an emphasis on its relation to ancient philosophy. Topics typically include: astronomy, cosmology, physics, biology, and medicine. The course will focus on such figures as Anaximander, Hippocrates, Plato, Aristotle, Eudoxus, Hierophilus, Ptolemy, and Galen. (Offered every other year.)

Upper Division - History of Philosophy

PHIL-3410 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: Any course in Philosophy or consent of instructor

PHIL-3411 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: Any course in Philosophy or Consent of Instructor.

PHIL-3412 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. (Offered every other year). Prerequisite: Any course in Philosophy or consent of instructor

PHIL-3422 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. (Offered every year). Prerequisite:

course in Philosophy or Consent of Instructor

PHIL-3431 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. (Offered every other year). Prerequisite: Any course in Philosophy or consent of instructor

PHIL-3432 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 and social sciences, and the difference between science and pseudo-science. (Offered every other year). Prerequisites: Both PHIL 2340 and an additional course in philosophy; or 9 hours in any one of the natural or social sciences

PHIL-3433 Philosophy of Language

A critical study of contemporary issues about language, meaning, reference, translation, and interpretation. (Offered every other year). Prerequisites: Both PHIL 2340 and an additional course in philosophy or consent of instructor

PHIL-3439 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: Any course in Philosophy or consent of instructor

Upper Division - Advanced Logic

PHIL-3340 Symbolic Logic II

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 Nonclassical Logics

Extensions of, and alternatives to, classical logic. Possible topics include modal logic, intuitionistic logic, manyvalued logic, and fuzzy logic. Some attention is paid to connections between these logics and topics in philosophy, computer science, and linguistics. Prerequisite: PHIL 2340 or consent of instructor

Upper Division - Value Theory

PHIL-3450 Metaethics

A study of contemporary attempts to answer the question of whether there are moral facts or whether any moral

various problems and disciplines. Prerequisite: Any course in Philosophy or consent of instructor

PHIL-3457 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

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.) Prerequisites: Sophomore standing or consent of instructor.

Seminars and Special Courses

PHIL-3-80 Philosophy for Children

This is a service learning class in which students learn the theory and practice of teaching philosophy to children. Students will attend a weekly class at Trinity in which they study and discuss educational theory, and learn about methods for teaching children philosophy. They also create and discuss various lesson plans. They then visit a public school where they meet with small groups of children and lead discussions of philosophy. May be repeated for credit. 1 to 3 semester hours. Prerequisites: One course in Philosophy or Education or consent of instructor.

PHIL-3-90 Directed Studies

Individual work under faculty supervision. 1 to 4 semester hours. Prerequisite: Consent of instructor

PHIL-3-91 Internship in Law and Philosophy

Students taking this class will work for various law of government offices as interns whose responsibilities will be determined by those offices and by supervising faculty. They will then complete a writing assignment in which they relate their experience in the internship to issues in ethics, social and political philosophy, and/or the philosophy of law. Pass/Fail only. Prerequisite: Consent of Instructor

PHIL-4180 Readings in Ancient Philosophy

PHIL-4492 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. Marx; P. Plato; W. Wittgenstein; Z. other figures. Prerequisite: 8 upperdivision hours in Philosophy of consent of instructor

PHIL-4493 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. Prerequisite: 8 upper-division hours in 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 4395 (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.

Physics and Astronomy

Faculty

Kwan Cheng, Ph.D., Williams Endowed Professor in Interdisciplinary Physics Nirav Mehta, Ph.D., Associate Professor David Pooley, Ph.D., Associate Professor Orrin Shindell, Ph.D., Assistant Professor Jennifer Steele, Ph.D., Professor; Chair Niescja E. Turner, Ph.D., 4 4447

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MAT program and to fulfill state requirements. Students who complete Trinity s 5 year will earn both a Bachelor s degree in Physics and Master of Arts in Teaching as well

chemistry and 8th grade general science (this would require coursework in chemistry

opportunities as well, see the Education Department s program description in the cou

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The Minor in Physics

A minor in Physics will consist of 18 credit hours of Physics. At least 9 credit 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 credit hours. Of those, 10 hours will include:

PHYS 1103	Observatory Astronomy
PHYS 1304	Solar System Astronomy
PHYS 1305	Stars and Galaxies
PHYS 1310 or 1312	General Physics II or Introduction to Electricity, Magnetism

Three hours will include:

PHYS 3350	Intermediate Astronomy
PHYS 4350	Astrophysics

The remaining 6 upper-division hours are chosen from the following:

GEOS 3307	Planetary Geology
PHYS/GEOS 3412	Applied Geophysics
PHYS 3321	Statistical Physics and Thermodynamics
PHYS 3322	Classical Mechanics and Nonlinear Dynamics
PHYS 3323	Introduction to Modern Physics
PHYS 3324	Math Methods in Physics
PHYS 3325	Waves and Optics
PHYS 3348	Atmospheric Physics

PHYS 3128	Summer Research II
PHYS 4128	Summer Research III
PHYS 3-90	Directed Studies Junior Level
PHYS 4-90	Directed Studies Senior Level

Students may also choose one relevant 3-hour-upper-division course approved by the department chair.

The combined total of hours for 3128, 4128, 3-90, or 4-90 may not exceed 3 hours for the minor. The chair of the Department of Physics and Astronomy must approve the selected content of 3128, 4128, 3-90, or 4-90 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-1111 Introductory Physics Laboratory

Laboratory to accompany PHYS 1309 or 1311. Topics include: one-dimensional kinematics, elastic and frictional forces, Kepler's Laws, collisions, rotational motion, oscillatory motion. Corequisite: PHYS 1311 or 1309 must be taken concurrently.

PHYS-1112 Intermediate Physics Laboratory

Laboratory to accompany PHYS 1310 and 1312. Topics include: DC, AC, and transient circuits, magnetism, geometric optics, interference and diffraction, blackbody radiation, spectroscopy, gamma ray absorption. 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 Energy and Earth's Changing Environment

An introduction to understanding energy production, consumption, and resource (e.g., fossil fuels, nuclear, solar, wind, water, geothermal, biofuels, and hydrogen). Topics for discussion include: environmental, political, economic, biological, and humanitarian consequences of energy production or use. Students will become more aware of the causes and consequences of climate change and of ways for mitigating the negative effects.

PHYS-1304 Solar System Astronomy

A survey of the nature of the Solar System. Topics include: scale of the Solar System, major and minor planets; moons, asteroids, comets, and other solar system debris; gravity and orbital motion; the nature of light; lunar phases; lunar and solar eclipses; solar wind and planetary magnetospheres; seasons, planetary atmospheres, and comparative planetary climatology; evolution of planetary surfaces; extra-solar planets and the search for life elsewhere in the Galaxy. May be taken without enrolling in PHYS 1103. (Offered every Year).

PHYS-1305 Stars & Galaxies

A survey of the properties of stars, galaxies, and the universe. Topics include: observed properties of stars; stellar birth, evolution and death; white dwarfs, neutron stars, and black holes; galactic structure and evolution; supermassive black holes; large-scale structure of the universe; the Big Bang and inflation; life in the universe; the nature of light. PHYS 1304 is not a prerequisite for PHYS 1305. May be taken without enrolling in PHYS 1103.

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, ale and applications in biology

PHYS-2231 Sophomore Experimental Physics

Rigorous experimental work, including data handling and scientific writing. Experiments are drawn from the areas

A quantitative survey of modern physics. Topics include: special relativity, waveparticle duality, and Schroedinger equation, identical particles, solid state, and high energy physics. Prerequisites: PHYS 1312 (or 1310), MATH 1312

PHYS-3324 Mathematical Methods for Physicists

This course is a survey of mathematical methods commonly used in the physical sciences. It covers essential aspects of complex variables, linear algebra, Fourier series and transforms, differential equations, and vector analysis, including theorems of Green, Gauss, and Stokes. (Offered every Spring.) Prerequisites: PHYS 3323 (Modern Physics)

PHYS-3325 Waves and Optics

An intermediate treatment of oscillations and wave mechanics and the nature of light as electromagnetic waves. General topics include linear oscillators, traveling waves, representations by complex numbers, and Fourier analysis. Topics from physical optics include sources of radiation, guided waves, interactions of light and matter, reflection and refraction, interference and diffraction, and scattering from particles. (Offered every other year.) Prerequisites: PHYS 1312 (or 1310) and MATH 2321.

PHYS-3333 Quantum Physics I

Introduction to the theory of quantum mechanics. Stationary states and time evolution of solutions to the Schroedinger 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. Electromagentic induction. Introduction to Maxwell's equations. Prerequisites: PHYS 3322, MATH 3316 (may be taken concurrently).

PHYS-3336 Advanced Topics in Physics and Astronomy

Advanced topics in physics and astronomy to be selected by the instructor. Various instances of the course may cover topics such as particle physics, general relativity, advanced electricity and magnetism, fluid mechanics, and/or advanced classical mechanics. (Offered every other year.) Prerequisites: Varies by topic. Consent of instructor is required.

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 Intermediate Astronomy

An introduction to the use of physical principles in the study of modern astronomy and astrophysics. Topics include: gravitational dynamics; star formation; stellar structure and evolution; radiative processes and phenomena; special relativistic effects in astronomy; quantum effects in astronomy; gravitational lensing. Only one of PHYS 3350 or 4350 may be taken for credit. (Offered every other year.) Prerequisite: PHYS 1310 or 1312; PHYS 1305 or permission of the instructor.

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 three hours may be counted toward a major in physics. Prerequisite: Consent of the Department Chair

PHYS-3398 Honors Reading

Individual research and study under faculty supervision in preparation for Honors Thesis work. Prerequisite: Consent of the Department Chair.

PHYS-3412 Applied 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 archeology. Topics include Fourier analysis, seismic waves in elastic media, refraction tomography, reflection seismology, multichannel analysis of surface waves, gravity, electrical resistivity and groundpenetrating radar. (Also listed as GEOS 3412) Three class hours and three laboratory hours per week. Field trips are required; field trip expenses must be paid by each student. Prerequisite: PHYS 1310 or 1312 (may be taken concurrently).

PHYS-4128 Summer Research III

Individual research participation during the summer research term under faculty supervision. (Offered every semester.) Prerequisite: PHYS 3128 and Consent of the Department Chair.

PHYS-4191 Nanofabrication

This course is an introduction to nanometer scale aspects of chemistry, physics, and biology, and how these can be combined to fabricate architectures with dimensions in the nanometer scale. Principles of fabrication techniques that underpin this field will be presented with recent developments as case studies, including nanoparticles, self-assembled monolayers (SAMs), electromaterials, and other new materials. An extensive series of hands-on laboratory activities is a central part of the course. Students will fabricate and characterize nanoscale structures using a variety of techniques from biology, chemistry, physics, and materials science. In the first few weeks of the semester, we will focus on principles, concepts, and instrumentation utilized in nonfabrication. During the rest of the semester, students will choose a current paper from the literature and attempt to recreate the fabrication process and all characterization techniques. (Offered occasionally). Prerequisite: Permission of Instructor

PHYS-4221 Electronics Lab

Rigorous experimental work covering RLC circuits, diodes, transistors, oscilloscopes, logic gates, and operational amplifiers. There will be a significant expectation for work outside of class, whether on prelab preparation, circuit building, or assignments for practicing specific skills. Meets 3 hours per week, with significant work outside of the laboratory. (Offered every other year.) Prerequisites: PHYS 2231

PHYS-4231 Advanced Photonics Lab

Advanced experimental techniques covering topics typically not addressed in coursework. Rigorous analysis of experimental data and competent scientific writing form an integral part of the course. Topics include: atomic physics, advanced optics, laser physics, and nanotechnology. There will be a significant expectation for work outside of class, including pre-lab and writing activities. Meets 3 hours per week, with significant work outside of the laboratory. (Offered every other year.) Prerequisites: PHYS 2231

PHYS-4328 High-Frequency Electromagnetics

The fundamental theory of electromagnetic waves is developed and applied to the design of high-frequency electrical circuits. Topics include: how electromagnetic waves travel and are usefully directed; how to design signal transmission lines, filters and couplers; analysis of high-frequency circuit networks, and high-frequency circuit concepts such as distributed impedance. Students will also prepare an individually researched assignment on a subject of their choice exploring an emerging technology in the electrical engineering area. (Also listed as ENG

Compton, inverse Compton, self Compton, dispersion, and Faraday rotation; special relativistic effects in astronomy such as Doppler shifts, aberration, and astrophysical jets; quantum effects in astronomy such as degenerate gases, hyperfine transition, and Zeeman absorption; gravitational lensing. Only one of PHYS 3350 or 4350 may be taken for credit. (Offered every other year.) Prerequisites: PHYS 1310 or 1312; PHYS 1305; PHYS 3323.

PHYS-4346 Condensed Matter Physics

An advanced treatment of quantum theories of atoms and solids. Physics of solids and solutions, reciprocal lattices and crystallography, thermodynamic properties of condensed systems. Properties of atoms and photon. Laser cooling, coherent excitation, and atom optics. 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. A written summary of results and presentation at a department seminar are required. Required of all B.S. Physics majors. (Offered every semester.) 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. A written summary of results and presentation at a department seminar are required. Required for honors in physics. (Offered every semester.) Prerequisite: Senior standing.

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.

The Minor

The requirements for the Minor:

A minimum of 18 credit hours of political science. Six hours shall be lower division; the remaining 12 shall be upper division.

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, with or without credit. PLSI 3-97 Internship in Politics, Administration, and Law can only be taken Pass/Fail.

Courses

Lower Division

PLSI-1301 American Politics

A study of the institutions, processes, and behavior of American government, with an emphasis on how enduring constitutional features impact contemporary concerns. This is the basic introductory course in American government. (Offered every semester)

PLSI-1331 Global Politics

A comparative study of different political systems around the globe and the major issues faced by governments as they manage the economy, immigration, climate change, and other issues. This is the basic introductory course in comparative politics. (Offered every year)

PLSI-1342 International Politics

An introduction to the interaction among state and non-state actors in the international arena. This course reviews international theory and examines important historical and contemporary issues in international relations. Topics include international security, war, globalization, terrorism, and the proliferation of weapons of mass destruction. This is the basic introductory course in international relations. (Offered every semester)

PLSI-1361 Politics & Morality

An introduction to some of the most important moral issues persons confront as citizens of a given polity. For example, 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 situation. (Offered every year)

PLSI-2432 Film, Literature, and Politics of the Third World

An examination of challenges facing Third World societies through literature and film. Relying primarily on the works of Third World artists and writers, the course will explore issues such as poverty, the plight of ethnic minorities, the status of women, and the legacy of colonialism. (Offered every year)

Upper Division - 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.

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.)

PLSI-3306 The American Presidency

An examination of the Presidency in the constitutional order, including recruitment, powers, and responsibilities and its relationship to the other major agencies of the state.

PLSI-3329 Special Topics in American 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 vary.

PLSI-3405 The U.S. Congress

An analysis of the U.S. Congress, with an emphasis on its historical roots and constitutional foundations, the legislative process and policy outcomes, the development of institutional structures and organizations, and the role of political parties, interest groups, and legislative behavior. (Offered every Spring)

PLSI-3413 Policy Analysis and the Policymaking Process

A study of the successes and failures, strengths, and weaknesses of parliamentary democracy in various European countries. (Also listed as GRST 3470.) (Offered every other year)

PLSI-3431 Comparative Political Economy of North America, Europe, and East Asia

A comparative study of the relationship between the public and private sectors in North America, Europe, and East Asia, with special emphasis on the extent to which government intervenes in the economy. (Also listed as GRST 3471.) (Offered every other year.)

PLSI-3434 State, Society, and Change in the Middle East

A comparison of the political systems of major Middle Eastern countries, emphasizing the socio-economic and cultural characteristics of selected cases. Prerequisite: Junior standing or consent of instructor.

PLSI-3435 Global City Berlin

An examination of the political tensions surrounding increased immigration to and diversity in Berlin and Germany during the past and the present. (Also listed as GRST 3435.)(Offered every other year)

Upper Division - International Politics

PLSI-3345 US Foreign Policy

An examination of US foreign policy and actions in a globalizing world. Prerequisite: PLSI 1342 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 vary.

PLSI-3441 East Asian Security

An examination of core debates and arguments with respect to international security in East Asia. Topics include 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 U.S foreign policy in East Asia. (Offered every other year)

PLSI-3442 International Law

An introductory survey of public international law as practiced by states and international organizations, with an emphasis on philosophical and theoretical perspectives, and on different subfields of international law such as international criminal law, law of the sea, human rights, economy, and international humanitarian law. (Offered every Fall)

PLSI-3443 Chinese Foreign Policy

An examination of Chinese foreign policy by focusing on leadership, economic conditions, political settings, public opinion, and China's relations with other countries. Includes a brief exploration of the historical role of China in international politics. Taught in English. (also listed as CHIN 3343).

PLSI-3444 The Middle East and The World

An examination of international relations in the Middle East with an emphasis on domestic, regional, and global factors in shaping the foreign policies of major countries of the region. Prerequisite: Junior standing or consent of instructor.

PLSI-3446 War and Alliance

A study of theoretical and empirical studies on the nature of international conflicts and alliance. Topics include the causes of war, crisis management, escalation of conflicts, termination of war, and the role of alliances in war and peace. (Offered every other year) Prerequisite: One lower division course in Political Science or consent of instructor.

PLSI-3447 International Criminal Justice: the Hague Program

An analysis of the birth and development of International Criminal Justice and the international crimes leading to the creation of International Criminal Tribunals. (Offered every other year)

PLSI-3448 International Human Rights

An examination of the historical, legal, and political evolution of international human rights law. Topics include the history of human rights violations, the legal development of the major human rights instruments, and the work of human rights activists. (Offered every other year)

Upper Division - Public Law

PLSI-3351 Constitutional Law

A study of the U.S. Supreme Court's role in defining the nature and scope of national judicial, executive, and legislative authority. Additional topics include federalism, commerce power, and economic substantive due process. Emphasis on the development of basic legal research skills.

PLSI-3352 Civil Rights and Liberties

A study of the U.S. Supreme Court's role in defining the meaning of the Bill of Rights, selective incorporation, privacy doctrine, and the Fourteenth Amendment's Due Process and Equal Protection Clauses. Emphasis on the development of basic legal research skills.

PLSI-3354 Judicial Process

An examination of the functions and roles of courts in the American political and legal system. Topics include legal education/profession, group litigation strategies, methods of judicial selection, theories of judicial decision-making, and judicial philosophy.

PLSI-3359 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.

Upper Division - Political Theory

PLSI-3361 Classical Political Thought

An examination of the nature of politics, justice, and civic virtue in ancient Greek, Roman, Christian, and Renaissance thought. Plato, Aristotle, Augustine, Aquinas, and Machiavelli.

PLSI-3369 Special Topics in Political Theory

Occasionally courses will be offered on special topics. Student 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.

PLSI-3462 Modern Political Thought

An examination of freedom, authority, and democracy through the writings of the great political thinkers of the modern age. Hobbes, Locke, Rousseau, Marx, Mill, and de Tocqueville, and feminist thinkers such as Mary Wollenstonecraft and Simone de Beauvoir. Prerequisite: Junior standing or consent of instructor.

PLSI-3463 Masters of Suspicion: Contemporary Political Thought

A study of many of the sharpest contemporary thinkers 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 3472.) (Offered every other year)

Upper Division - Special Courses

PLSI-3315 Iceland - Its Unique Geological, Economic and Cultural History

This course will expose students to the unique economic, geologic, and cultural history of Iceland. The economic aspects will focus on the role of financial markets and monetary institutions in economic booms and crashes using Iceland as a case study, possible solutions to public good problems such as the Icelandic fishing quota, business practices which often prioritize protection of the environment and social responsibility, and the role of international trade in development of a small country. The geological history will emphasize Iceland's plate tectonic setting, volcanism, glacial history and related hazards, geothermal energy, and the effects of climate change. The cultural portion will explore the fundamental role of literature in a country with virtually no illiteracy, and the role of the sagas in the transmission of culture, language, and the law in the country with the oldest parliament in the world. (Also listed as BUSN 3315, ECON 3315, INTL 3315, and GEOS 3315.) (Offered every other year)

PLSI-3366 Governance and Public Policy in Contemporary China

This course covers most significant issues of contemporary policies and public policy in China. It explores the forces changing the lives of nearly a fifth of humanity, the 1.1 billion people of China. This course is designed to be experimental in both subject and teaching methodology. In order to explore the political, economic, and social processes of liberalization that have created this new era of the increased circulation of people, ideas, commodities and technologies across national boundaries, seminar participants must use materials and methods

Psychology

Faculty

<u>Carolyn Becker, Ph.D.</u>, Professor Jane Childers, Ph.D., Professor; Chair William Ellison, Ph.D., Assistant Professor Paula Hertel, Ph.D., Professor Kah-Chung Leong, Ph.D., Assistant Professor Kevin McIntyre, Ph.D., Associate Professor Kimberley Phillips, Ph.D., Professor Harry Wallace, Ph.D., Associate Professor Charles White, Ph.D., Professor Carol Yoder, Ph.D., Professor

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-lo Ptn, he Facuhat as with

- 2. Social and Clinical Psychology: 2341, 3340, 3342
- 3. Cognition, Perception, and Learning: 2312, 2330, 3311, 3431
- E. At least 18 credit hours must be at the upper-division level.
- F. Electives sufficient to total 38 hours in psychology (other cluster courses, companion courses, and individual experiences). Students must complete at least 2 additional upper-division courses from cluster courses or companion courses as part of these elective hours.

II. University requirements: completion of all other required elements of the Pathways curriculum and at least 124 credit 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 credit hours. At least nine of these hours must be at the upper-division level.

Guidelines for Acceptance of Majors

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

I. Completion of PSYC 1300 with a grade of C or better;

II. Completion of PSYC 2401 with a grade of C or better;

III. 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 their senior year. Transfer students will be accepted provisionally pending completion at Trinity of at least one upper-division Psychology course with a grade of C or better.

Courses

Introduction, Methods, and Physiological Processes

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. Prerequisite: PSYC 1300 or BIOL 1311

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.

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/NEUR-2310.

Cluster 1: Developmental Psychology

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-2350 Language Development

Examination of children's language acquisition. Topics include theories of acquisition, comparison of human language with animal communication, infant speech perception, word learning and syntactic development.

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-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 the course. Prerequisite: PSYC 1300

PSYC-3312 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. Prerequisites: PSYC 1300 and at least one additional course in Psychology

PSYC-3431 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. (Offered every other year.) Prerequisite: PYSC 2402 or consent of instructor.

Companion Courses

PSYC-2360 Special Topics in Psychology

In depth study of theory and research on a topic that spans subdisciplines within psychology or relates psychology to cross-disciplinary interests. (Offered occasionally) Prerequisites: PSYC 1300.

PSYC-3310 Neuroethics

In this course students review and discuss ethical theories and principles, and then discuss ethical dilemmas arising from several currently devoted topics relevant to the brain, cognition, and behavior. Relevant bioethical and philosophical principles will be applied to each issue allowing students to acquired and develop skills in ethical analysis. In addition, relevant neuroanatomy, neurophysiology, and neurotechnologies will be discussed. (Also listed as NEUR 3310.) (Offered every other year.) Prerequisite: PSYC 1300 and PSYC/NEUR 2310 or Permission of Instructor

PSYC-3451 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, 3340.

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. Prerequisites: PSYC 1300

PSYC-3360 Special Topics in Psychology

In depth study of theory and research within a particular domain of psychology. May be repeated on different topics. Prerequisite: Consent of instructor.

PSYC-3368 Supervised Research

Independent research using empirical methods. Nine hours per week will be distributed across research activities, colloquia attendance and student presentations. May be repeated twice with consent of instructor. (Offered every semester.) Prerequisites: Consent of instructor, PSYC 2-61, and PSYC 2401.

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-2-61 Lab Experience in Psychology

This course is designed to give students the background experiences needed to conduct research in Psychology. Students will engage in research-related activities such as reading empirical papers, data collection, data coding, and learning research protocols. This course will be offered on a Pass/Fail basis. (Offered every semester.) Prerequisite: Consent of instructor and PSYC 1300

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

Religion

Faculty

Kimberly Bauser McBrien , Visiting Assistant Professor <u>Gregory Clines</u> , Assistant Professor <u>Ruben R. Dupertuis, Ph.D.</u> , Associate Professor; Chair <u>Sajida Jalalzai, Ph.D.</u> , Assistant Professor <u>Randall L. Nadeau, Ph.D.</u> , Professor <u>Sarah K. Pinnock, Ph.D.</u> , Jennie Farris Railey King Professor of Religion <u>Chad S. Spigel, Ph.D.</u> , Associate Professor <u>Angela Tarango, Ph.D.</u> , Associate Professor

Requirements

The Major

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

I. Departmental requirements:

A. 32 credit hours in Religion including at least one course from each of the following two groups:

- 1. RELI 1320, RELI 1330, or RELI 1360
- 2. RELI 2354, RELI 2355, or RELI 2356
- B. RELI 2400: What is Religion?

C. At least 16 of the credit hours in Religion to be upper-division courses selected in consultation with a faculty adviser in the Department of Religion.

D. RELI 4494: Religion Capstone.

E. A total of no more than 16 credit hours from RELI 3-90 and 3-91 may be counted toward the major without approval of the adviser and the Department.

II. University requirements: completion of all other required elements of the Pathways Curriculum and at least 124 credit hours.

world? What are the various functions of religion for societies and for individuals? How have scholars studied religion? How does one study a religion, or religion, if one is an outsider or is non-religious?

RELI-2101 Biblical Hebrew

The primary goal of this course is to introduce students to ancient Hebrew so they will be able to read parts of the

RELI-2359 Pagans, Jews, and Christians

This course explores the development of early Christian and Jewish beliefs, practices and cultures in the contexts of the larger Mediterranean world. Through a combination of readings and visits to archaeological sites and museums in Rome and its surroundings, students will learn to locate emerging Jewish and Christian literature, ideas, and debates within Roman imperial social and religious practices, institutions and ideology. This course is part of a faculty-led study abroad program in Italy offered in the summer. Co-requisite: THTR 1343: Improvisation: Performance and the City.

Upper Division Courses at the 3000 Level

RELI-3401 Gender and Religion

An examination of the cultural expectations placed upon women and men in various religious traditions; the historical prevalence of patriarchy and differentiated gender roles; feminist and liberation movements for gender equality with a religious basis; challenges to heterosexism and the development of gay, lesbian, and transgender religious perspectives. (Offered every other year). Prerequisite: 1 course in Religion or consent of instructor

RELI-3403 Death and Beyond

An examination of the significance of death for human existence and how various religious traditions find meaning in mortality; the ritual practices involved in the dying process, the disposition of the body, grieving, last rites, and the remembrance of the dead; cross-cultural concepts of heaven, hell, reincarnation, the soul, near-death experience, good and evil, salvation, enlightenment, and the ethical implications of religious notions of death. (Offered every other year). Prerequisite: 1 course in Religion or consent of instructor

RELI-3312 Religion and Science in the Westnstructor

consent of instructor.

RELI-3418 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. (Offered every other year). Prerequisite: 1 course in Religion or consent of instructor.

RELI-3431 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. Emphasized throughout the course is the interplay between contemporary insider and outsider perspectives. (Offered every other year) Prerequisite: RELI 1330 or consent of instructor

RELI-3353 The Gospels, Jesus, and Christian Origins

Scientific Computing

Faculty

<u>Farzan Aminian, Ph.D.</u>, Professor, Engineering Science <u>Saber N. Elaydi, Ph.D.</u>, Murchison Term Professor of Mathematics; Director <u>Julio Roberto Hasfura-Buenaga, Ph.D.</u>, Associate Professor, Mathematics <u>Mark C. Lewis, Ph.D.</u>, Professor, Computer Science <u>Kevin Livingstone, Ph.D.</u>, Associate Professor, Biology <u>Natasa Macura, Ph.D.</u>, Associate Professor, Mathematics <u>David Ribble, Ph.D.</u>, Professor, Biology <u>Dennis Ugolini, Ph.D.</u>, Professor, Physics and Astronomy <u>Adam R. Urbach, Ph.D.</u>, Professor, Chemistry

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

The Core (9 hours)

I. Computation

CSCI 1320	Principles of Algorithm Design
CSCI 2323	Scientific Computing
II. Calculus	
MATH 1311	Calculus 1

III. 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

IV. Disciplinary Practice (4-5 hours depending on the chosen elective)

A. SCOM 3199 Scientific Computing Project [Must be taken in conjunction with one of the courses listed below.]

B. And one of the following courses:

BIOL 3420	Animal Behavior
BIOL 3434	Ecology
BIOL 3464	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
PHYS 4346	Advanced Modern Physics

PSYC 3311 Sensation and Perception

PSYC 3431 Memory and Cognition

PSYC 3333 Simulation of Neural and Cognitive Processes

* This course requires completion of a 3000-level course in Biology or Psychology.

Courses

Sociology and Anthropology

Faculty

<u>Christine Drennon, Ph.D.</u>, Associate Professor <u>Sarah Beth Kaufman, Ph.D.</u>, Assistant Professor <u>Jennifer P. Mathews, Ph.D.</u>, Professor; Chair <u>Alfred Montoya, Ph.D.</u>, Associate Professor <u>Tahir H. Naqvi, Ph.d.</u>, Associate Professor ANTH 3466, and ANTH 4354. ANTH 3394 and ANTH 4394 may also fulfill this requirement if approved by the department chair.

- 5. At least one of the following courses in cultural anthropology: ANTH 2339, ANTH 2357, 3327, 3428, 3329, 3331, 3343, 3345, 3445, 3446, 3448, 3349, 3452, 3355, 3367, and 3464. ANTH 3394 and ANTH 4394 may also fulfill this requirement if approved by the department chair.
- 6. At least 23 hours must be in upper division anthropology courses chosen in consultation with the adviser. At least 27 hours of the 33 hours required for the Anthropology major must be completed in residence at Trinity University. ANTH 2401, ANTH 3359, and ANTH 3460 or ANTH 3461 or ANTH 3365 must be completed in residence at Trinity University.

II. University requirements: completion of all other required elements of the Pathways curriculum and at least 124 credit hours.

The Minor

Two minors are offered in the Department of Sociology and Anthropology. The department requirements are as follows:

I. The Sociology minor consists of 18 credit hours to be taken as follows:

A. Completion of at least one of the following courses: SOCI 1301, 1316, 2306, 2311, 2312, or 2314.B. At least 12 hours must be in upper division courses.

II. The Anthropology minor consists of 18 credit hours to be taken as follows:

A. Completion of at least two of the following courses: ANTH 1301, 1305, or 2310.

B. At least 12 hours must be in upper division 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.

Honors in Sociology and Anthropology

REQUIREMENTS FOR GRADUATING WITH MAJOR HONORS IN THE DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY

Students will be eligible to graduate with Major Honors if they have fulfilled all the following requirements:

- a. maintained at least a 3.33 overall grade point average at Trinity;
- b. maintained at least a 3.5 grade point average in their major in the Department of Sociology and Anthropology;

- c. completed a Senior Thesis over the course of two semesters, enrolling in and successfully completing ANTH 4395 or SOCI 4395 in two consecutive semesters prior to graduation.,
- d. made an oral presentation of the Senior Thesis to the members of their Thesis Committee and the Chairperson of the Department of Sociology and Anthropology; and
- e. been unanimously recommended for graduation with Major Honors by the Thesis Committee and the Chairperson of the Department of Sociology and Anthropology.

To be considered for graduation with Major Honors, students should address a written request for consideration to the chairperson of the Department of Sociology and Anthropology no later than the end of the first full week of their penultimate semester at Trinity.

Courses

Sociology Courses - Lower Division

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. (Offered every year.)

SOCI-1110 Service Learning: Homelessness

This course combines service-learning in the San Antonio community with sociological perspectives on housing, hunger, and homelessness. Students in this course will analyze their experiences volunteering at San Antonio service sites using insight gained from sociological readings, guest speakers, and lectures. This course includes coverage of the sources of social inequality in the United States, social welfare and policies, and pressing issues in different homeless demographic groups, including attention to homeless families, women, children, youth, and the chronically homeless. Students in this course will be required to complete at least 30 hours of volunteer work over the course of the semester at a pre-approved service site. (Offered every Fall.)

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.)(Offered every year.)

SOCI-1316 People and Places in Global Context

Sociology Courses - Upper Division

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. (Offered every other year.) Prerequisite: At least 3 hours completed in Sociology

SOCI-3424 Crime and Criminal Justice

This course examines the causes of crime, as well as how we treat the problem of crime and try to prevent it. We will examine what crime and the criminal justice system look like in the United States in comparison to other countries and what criminologist believe are the causes of different types of crime. Through case studies, we will also look at some critical perspectives on mainstream beliefs about the causes of crime. (Offered every other year.) Prerequisite: At least 3 hours completed in Sociology

SOCI-3428 Gender Transgressions

What does it mean to transgress gender rules? This class charts the range of gender transgressions in contemporary society, with attention to drag, intersex, and transgender practices and identities. It explores how gender transgressive individuals operate within existing social institutions, such as work and the family, and covers theories of gender performance. (Also listed as ANTH-3428.) (Offered every other year). Prerequisite: Any one of the following courses: Any lower division SOCI course, ANTH 1301, WAGS 2310, 2350, 2351, or 2352, or consent of instructor.

SOCI-3327 Race in America

A study of relations between dominant and subaltern racial groups in the United States and other American republics. Special attention will be paid to the social construction of racial categories and the ways in which societies are stratified on the basis of nationality and racial group membership. The evolving dynamics of race relations will be considered with regard to of matters of power, prestige, immigration, citizenship, and identity-formation. Various forms of contemporary racism and means of combating them will also be examined. (Offered every other year.) (Also listed as ANTH 3327.) Prerequisite: At least 3 hours completed in Sociology, Anthropology, or Political Science

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

childhood and youth in society. This framework will involve 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. (Offered occasionally.) Prerequisite: At least 3 hours completed in Sociology

SOCI-3446 Punishment and Society

While much of criminology is concerned with understanding why people commit crime, this course focuses on society's response to crime. As such, the course is an introduction to the ways social scientists measure, think about, and theorize punishment. It introduces students to the American model of criminal punishment, contextualizes the American system internationally, and critically analyzes concepts of punishment generally. (Also listed as ANTH 3446.) (Offered every Spring).

SOCI-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. (Offered occasionally.) Prerequisite: At least 3 hours completed in SOCI.

SOCI-3355 HIV/AIDS: Nature, Power, Populations

This course is an interdisciplinary introduction to the HIV/AIDS epidemic. It examines the biological, historical, sociocultural, political, economic, ethical, and technological dimensions of the current epidemic, drawing from work in anthropology, sociology, the history of science/medicine, philosophy, epidemiology, and public health. (Offered

survey methods. SOCI 3159 must be taken concurrently. (Also listed as ANTH 3359.)(Offered every Fall.) Prerequisite: At least 6 hours completed in ANTH and/or SOCI

SOCI-3460 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, 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 3460 and URBS 3460.) (Offered every Spring.) Prerequisite: ANTH 3359 or SOCI 3356

SOCI-3461 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 ANTH 3461.)(Offered every Spring) Prerequisites: SOCI/ANTH 3359

SOCI-3-91 Special Topics Seminar

Topics will vary according to faculty and student interest. A student may repeat the course if the topics change. (Offered occasionally.)

SOCI-3-71 Sociology Internship

Professional work experience with a government agency, private business, or non-profit organization in which students apply their anthropological skills and knowledge. Students should contact the chairperson of the Department of Sociology and Anthropology for more information about procedures to follow for arranging and completing an internship. A student may repeat the course for a maximum of six semester hours. This course is taken Pass/Fail. (Offered every semester.) Prerequisite: consent of instructor.

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-4394 Senior Special Topics Seminar

Topics will vary according to faculty and student interest. A student may repeat the course if the topics change. (Offered occasionally.) Prerequisite: consent of instructor.

SOCI-4395 Senior Thesis

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ANTH-2401 The Anthropological Imagination

This course provides students 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 concerning non-Western cultures, 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. (Offered Every Spring)

Anthropology Courses - Upper Division

ANTH-3327 Race in America

A study of relations between dominant and subaltern racial groups in the United States and other American republics. Special attention will be paid to the social construction of racial categories and the ways in which societies are stratified on the basis of nationality and racial group membership. The evolving dynamics of race relations will be considered with regard to matters of power, prestige, immigration, citizenship, and identity-formation. Various forms of contemporary racism and means of combating them will also be examined. (Offered every other year.) (Also listed as SOCI 3327.) Prerequisite: At least 3 hours completed in SOCI, ANTH, or PLSI.

ANTH-3428 Gender Transgressions

What does it mean to transgress gender rules? This class charts the range of gender transgressions in contemporary society, with attention to drag, intersex, and transgender practices and identities. It explores how gender transgressive individuals operate within existing social institutions, such as work and the family, and covers theories of gender performance. (Also listed as SOCI 3428.)(Offered every other year). Prerequisite: Any one of the following courses: Any lower division SOCI course, ANTH 1301, WAGS 2310, 2350, 2351, or 2352. Or consent of instructor.

ANTH-3329 Sexuality and Society

An investigation of the social construction and regulation of sexuality across cultures and through time. This perspective on sexuality look 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)(Offered every other year.) Prerequisite: At least 3 hours completed in Sociology or Anthropology

ANTH-3335 Pre-Columbian Art of Mesoamerica

This course is a survey of the art of the ancient peoples of Mesoamerica. It will examine the art of a variety of major groups, including the Olmec, the Maya, the Toltec, the Zapotec, the Mixtec, and the Aztec, as well as other indigenous peoples of Western Mexico and the Gulf Coast. (Also listed as ARTH 3335.) (Offered every other year.)

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contextualizes the American system internationally, and critically analyzes concepts of punishment generally. (Also listed as ANTH 3446.) (Offered every Spring.)

ANTH-3448 Modern South Asia: India, Pakistan, and Beyond

This interdisciplinary course explores the historical, cultural, and political terrain of modern South Asia, a region that includes India, Pakistan, Bangladesh, Nepal, and Sri Lanka. (Offered every other year.) Prerequisite: PLSI 1331 or at least 3 hours completed in ANTH.

ANTH-3452 Global Cities: Africa, Asia, and the Americas

This course offers theoretical and empirical tools for the study of urban processes in Asia, Africa, and the Americas. It examines the major problems of housing and infrastructure confronting cities in these regions and emphasizes the role of globalization in urban transformation. (Offered every other year). (Also listed as URBS 3452.) Prerequisite: URBS 1310 or at least 3 hours completed in ANTH.

ANTH-3355 HIV/AIDS: Nature, Power, Populations

This course is an interdisciplinary introduction to the HIV/AIDS epidemic. It examines the biological, historical, sociocultural, political, economic, ethical, and technological dimensions of the current epidemic, drawing from work in anthropology, sociology, the history of science/medicine, philosophy, epidemiology, and public health. (Offered every other Spring.) (Also listed as SOCI 3355.) Prerequisites: At least 3 hours completed in ANTH or SOCI.

ANTH-3356 Seminar on the Ancient Maya

This course surveys the culture of the 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. (Offered every other year.)

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.) (Offered every Fall.) Prerequisite: At least 6 hours completed in SOCI and/or ANTH.

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 take concurrently. (Also listed as SOCI 3359.)(Offered every Fall.) Prerequisite: At least 6 hours completed in SOCI and/or ANTH.

ANTH-3460 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, linear regression, and correlation. The course goals

student may repeat the course or a maximum of six semester hours. This course is taken Pass/Fail. Prerequisite: Consent of instructor

ANTH-4354 Seminar on Primatology

Advanced study of human evolution, ecological conservation, 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. (Offered every other year.) Prerequisite: ANTH 2310.

ANTH-4-72 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. (Also listed as CLAS 4-72.) (Offered occasionally.) Prerequisite: Consent of Instructor

ANTH-4394 Senior Special Topics Seminar

Topics will vary according to faculty and student interest. A student may repeat the course if the topics change. (Offered occasionally.) Prerequisite: consent of instructor.

ANTH-4395 Senior Thesis

listed as SOCI 3449.) (Offered every other year.) Prerequisites: At least 3 hours completed in ANTH, ECON, PLSI, or SOCI.

ANTH-3465 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 URBS/SOCI 3465.) (Offered every year.) Prerequisite: ANTH 3359 or SOCI 3359.

Overview

The School of Business offers five Bachelor of Science degrees and one Bachelor of Arts degree. The Bachelor of Science degrees are designed to accommodate those students who want to pursue specialized study in the following areas: accounting, finance, business analytics and technology, international business, and business administration (with concentrations in either marketing or management). 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, but who also desire to undertake a double major, where one of those majors is business. These degree programs are accredited by AACSB International The Association to Advance Collegiate Schools of Business International.

Students pursuing the Bachelor of Science degrees complete a core of 28 credit hours with additional majorspecific requirements. Students pursuing the Bachelor of Arts degree complete a core of 28 credit hours and six hours of electives beyond that core. A student who pursues either a major or a minor in the School of Business must take at least 50% of the School of Business credit hours that apply toward his/her degree at Trinity University. Furthermore, at least 50% of the credit hours identified as major or concentration requirements for the Bachelor of Science degree in the School of Business must be taken at Trinity University.

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

Students should apply for admission to major in accounting, finance, business analytics and technology, international business, or business administration early in the sophomore year so that they may be assigned a major adviser. The advising process is important for all School of Business majors 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 any School of Business major, a student must first complete ACCT 1301, ECON 1311, BAT 2301, and one of MATH 1305 or MATH 1311, all 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.

Requirements

- Bachelor of Science in Accounting
- Bachelor of Science in Business Administration

- Bachelor of Science in Business Analytics and Technology
- Bachelor of Science in Finance
- <u>Bachelor of Science in International Business</u>
- Bachelor of Arts in Business
- Master of Science in Accounting
- Minor in Business
- Minor in Business Administration Legal Studies

Bachelor of Science in Accounting Degree

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

I. One of MATH 1305 or MATH 1311.

II. Core business curriculum (28 hours): ACCT 1301; BAT 1101 or 1102, 2301, 2302, 3301; BUSN 3302, 4301; FNCE 3301; MGMT 2301; and MKTG 2301.

Note: ECON 1311 is a prerequisite for FNCE 3301 and ECON 1312 is a prerequisite for BUSN 4301. In order to satisfy these prerequisite requirements, ECON 1311 and ECON 1312 may not be taken on a pass/fail basis.

- a. Accounting major requirements (24 hours):
 - I. Required courses (21 hours): ACCT 1302, 3303, 3341, 3342, 3343, 3344, and 4344.

II. Elective courses (3 hours): Students must complete at least three hours of business electives that may include ACCT 4397, ACCT 4697, or any other upper division non-core course offered or cross-listed by any department in the School of Business. Whenever possible, students are encouraged to select courses that offer significant experiential components.

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

c. Completion of electives sufficient to bring the total credit hours outside of the School of Business to at least 60.

d. Completion of all other required elements of the Pathways curriculum and at least 124 credit hours.

For full admission to any School of Business major, a student must first complete the following courses with grades of C or better:

- 1. ACCT 1301
- 2. MATH 1305 or MATH 1311
- 3. ECON 1311

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- III. Concentration requirements (12-15 hours):
 - A. Management Concentration (12 hours): Students choosing this option should complete MGMT 3371 and 9 hours from the courses that follow: MGMT 3361, MGMT 3372, MGMT 3383.
 - B. Marketing Concentration (15 hours): Students choosing this option must complete MKTG 3381, 3383, 4381 and an additional 6 hours from the courses that follow: MKTG 3361, 3382, INTB 3363, 4362. In order to enroll in MKTG 4381 in their Senior year, students must complete 3381 and 3383 by the end of their Junior year.
- IV. Completion of an approved study abroad experience or the successful completion of a modern foreign language course numbered 2302, or its equivalent.
- V. Completion of electives to bring the total in School of Business courses to at least 45 credit hours.
- VI. Completion of electives sufficient to bring the total credit hours outside of the School of Business to at least 60.
- VII. Completion of all other required elements of the Pathways curriculum and at least 124 credit hours.

For full admission to any School of Business major, a student must first complete the following courses with grades of C or better:

- 1. ACCT 1301
- 2. MATH 1305 or MATH 1311
- 3. ECON 1311
- 4. BAT 2301

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.

Bachelor of Science in International Business Degree

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

I. One of MATH 1305 or MATH 1311.

II. Core business curriculum (28 hours): ACCT 1301; BAT 1101 or 1102, 2301, 2302, 3301; BUSN 3302, 4301; FNCE 3301; MGMT 2301; and MKTG 2301.

Note: ECON 1311 is prerequisite for FNCE 3301 and ECON 1312 is prerequisite for BUSN 4301. In order to satisfy these prerequisite requirements, ECON 1311 and ECON 1312 may not be taken on a pass/fail basis.

III. International Business major requirements (24 hours):

A. Required courses (15 hours): MGMT 3361, FNCE/ECON 3361, MKTG 3361, INTB 3361, INTB 4361.

B. International Business electives (6 hours):

1. At least 3 hours from INTB 3330, 3363, 3365, 4362, and/or BUSN 3340.

2. Interdisciplinary international electives: COMM 3322/HCOM 3374, ECON 3318, 3347, FNCE 3348, and INTB 3346.

C. International experiential requirement (3 hours): International Business Internship (INTB 3396, INTB 3-97 or INTB 3372) with International Business Summer Program, Madrid Program, Shanghai Policy Program, or other pre-approved internship programs.

Note: University policy requires that all students intending to study abroad have a GPA of 2.75 or above. To satisfy the experiential requirement for the major, a student must have both an approved study abroad experience and an approved international internship (a minimum of 120 hours of work experience with the sponsoring company or organization). All students are strongly encouraged to complete their international internship while they study abroad.

D. Language requirement:

Foreign Language (3301 or 3302). Students must either complete a modern foreign language course (minimum level 3301) or demonstrate fluency in a foreign language.

IV. Completion of electives sufficient to bring the total credit hours outside of the School of Business to at least 60.

V. Completion of all other required elements of the Pathways curriculum and at least 124 credit hours.

For full admission to any School of Business major, a student must first complete the following courses with grades of C or better:

- 1. ACCT 1301
- 2. MATH 1305 or MATH 1311
- 3. ECON 1311
- 4. BAT 2301

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.

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. Requirements for the minor are the completion of at least 18 credit hours of courses. The following three courses are required for completion of the minor: ACCT 1301, BUSN 3302, and BUSN 3341. Additional requirements include:

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

II. At least one three-hour course in law applicable to business from a perspective other than business or economics: COMM 3362, PHIL 3453, PLSI 3351, SOCI 3350 or other law course outside of business and economics approved by the minor adviser.

III. One additional three-hour course in law from either I or II above.

Note: If a student wishes to pursue a minor in Business 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 receiving any School of Business major may not receive a minor in Business or a minor in Business Administration Legal Studies.

Bachelor of Science in Business Analytics and Technology Degree

Completion of this degree program requires a minimum of 53 credit hours of specific coursework, in addition to all the other general requirements.

T major may not rr Ior of Snce in Business Analytics and Technology

- BAT 1102 if not taken as part of the business core
- BAT 3302
- BAT 3306
- BAT 3390
- BAT 3-97

Interest in Supply Chain Analytics:

- BAT 1102 if not taken as part of the business core
- One of either BAT 3304 or BAT 3394
- BAT 3307
- BAT 3390
- BAT 3-97

Note 2: BAT 3394 can only be taken as part of Trinity's faculty-led study abroad summer program to Japan, if available. Check availability of both the program and the course with the study abroad office or the Department

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II. Core business curriculum (28 hours): ACCT 1301; BAT 1101 or 1102, 2301, 2302, 3301; BUSN 3302, 4301; FNCE 3301; MGMT 2301; and MKTG 2301.

Note: ECON 1311 is prerequisite for FNCE 3301 and ECON 1312 is prerequisite for BUSN 4301. In order to satisfy these prerequisite requirements, ECON 1311 and ECON 1312 may not be taken on a pass/fail basis.

III. Completion of a second major from a department outside of the School of Business at Trinity University.

IV. Completion of six hours of electives in the School of Business.

V. Completion of all other required elements of the Pathways curriculum and at least 124 credit hours.

For full admission to any School of Business major, a student must first complete the following courses with grades of C or better:

- 1. ACCT 1301
- 2. MATH 1305 or MATH 1311
- 3. ECON 1311
- 4. BAT 2301

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.

Minor in Business

In addition to the degree programs offered to business majors, the School of Business offers a minor in Business

ACCT-3142 Introduction to Oil and Gas Accounting

The course focuses on the basic vocabulary, accounting, and reporting practices related to exploration, acquisition, development, and production of oil and gas resources. Must be taken on a pass/fail basis. (Offered every Spring.) Corequisite: ACCT 3342 and junior standing, or consent of the instructor

ACCT-3303 Business Analytics

In this course we explore how to solve modern business problems using analytical and computational methods that require sophisticated skills in quantitative analysis as well as in data storage, retrieval and manipulation. We app 303 pr a ces to es ces pr 03 Offerent ju ational er as t require in en a tativepl se e

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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-3302 Legal Concepts of Business I

Studies the American legal system, principles of the law of contracts, negotiable instruments, sales, and business ethics. Prerequisite: Sophomore Standing

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

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 ECON 3362.) Prerequisite: ECON 1311

BUSN-3315 Iceland - Its Unique Geological, Economic and Cultural History

This course will expose students to the unique economic, geologic, and cultural history of Iceland. The economic aspects will focus on the role of financial markets and monetary institutions in economic booms and crashes using Iceland as a case study, possible solutions to public good problems such as the Icelandic fishing quota, business practices which often prioritize protection of the environment and social responsibility, and the role of international trade in development of a small country. The geological history will emphasize Iceland's plate tectonic setting, volcan a eologis and evil erequisite: ECON

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manufacture production models. (Offered every year). (Also listed as ECON 3366.) Prerequisite: Consent of Instructor

BUSN-3367 Comparative Views of Modern China

This course represents an overview of the most important economic relationship of the twenty-first century. The global financial crisis that started in 2008 revealed just how much the strategic relationship between China and the United States represents the heart of the world's economy. China has recently surpassed Japan to become the world's second largest economy and America's third largest commercial partner. The rise of China has brought about a reorganization of the global economy and the international balance of power. This new world order carries challenges and opportunities. China remains a communist country with a significant legacy of a command economy. It is also a market economy. Understanding this mixture - capitalism with Chinese characteristics or the Chinese variety Capitalism - is the major aim of this course. We also cover topics relevant to the economic relationship between China and the USA, including international trade and the balance of trade, the Chinese currency system, the growth of China and its growing influence in the international sphere. (Also listed as ECON 3367, CHIN 3367, and URBS 3367.)

BUSN-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 J unior standing.

BUSN-3-97 Internship in Business Administration

The Business internship is to be a structured and supervised professional work experience with an accepted employer in the private, public, or non-profit sector. To be recognized, the experience must be preapproved and must include specific learning objectives, weekly and final reflections from the intern, and evaluations from the employer. An internship is typically done by a student who has attained sufficient preparation in an academic field. The experience may be paid or unpaid. Variations in credit according to the work performed, from 0 to 6 hours per semester. May be repeated for a maximum of 6 hours credit. Must be taken on a Pass/Fail basis. Prerequisite: 15 hours of Core Business Curriculum, Consent of Internship Coordinator and appropriate School of Business Department Chair.

BUSN-4130 Quanqiu Shangwu Wenhua-Zhong-Mei Jiaodian (Global Business Culture)

A companion course to INTB/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 INTB/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 LAC 4130.) Prerequisites: Senior Standing, CHIN 3302 or the equivalent, and Consent of Instructor Corequisite: INTB/CHIN 3330

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BAT-2302 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.

BAT-3301 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: BAT 2301, BAT 1101 and BAT 2302

BAT-3302 Data Science

Storage, retrieval and analysis of data sets, with emphasis in "data wrangling" and the application of specialized software, computational techniques and algorithms to practO o and B tralToperffquid sctinal teldu)erequisite: BA

BAT-3307 Global Supply Chain Management

This is a managerially oriented Global Supply Chain Management course. Topics include new product development, procurement, contracting, materials supply coordination, manufacturing requirements planning, production planning and scheduling, warehousing, and forward and reverse logistics and distribution, all in the context of global supply chains. (Offered Occasionally.) Prerequisite: BAT 3301

BAT-3390 Special Topics

From time to time, special topics courses may be offered in the area of Business Analytics and Technology. The contents of the course will vary depending on the topic. This course may be taken up to two times, as long as the course content changes. (Offered occasionally.) Prerequisite: Consent of Instructor

BAT-3394 The Japanese Production System in Context

We examine the evolution of production systems from the Middle Ages to present times, focusing on the Lean paradigm, or Toyota Production System (Toyota Seisan Hoshiki). We will learn the basics of production management, and we will study, analyze, compare, and contrast Lean with other older and newer systems and explore the social, cultural, and philosophical context that makes Lean the current benchmark in production quality and efficiency. As part of the coursework, students will research some aspect of Lean and produce a research report and presentation. (Offered occasionally.)

BAT-3-97 Business Analytics Internship

The Business Analytics and Technology internship is to be a structured and supervised professional work experience with an accepted employer in the private, public, or non-profit sector. To be recognized, the experience must be preapproved and must include specific learning objectives, weekly and final reflections from the intern, and evaluations from the employer. An internship is typically done by a student who has attained sufficient preparation in an academic field. The experience may be paid or unpaid. Variations in credit according to the work performed, from 0 to 6 hours per semester. May be repeated for a maximum of 6 hours credit. Must be taken on a Pass/Fail basis. (Offered every semester). Prerequisite: Consent of internship coordinator and Finance and Decision Science department chair.

BAT-4102 Experiential Portfolio in Business Analytics and Technology

This course consists in producing under faculty guidance a coherent, professional physical or digital portfolio including all experiential work undertook in the BAT major and an integrative summary narrative, in order to promote self-reflection of the overall degree program and also to have a readily available body of evidence of practical work for employment or graduate studies purposes. This course is to be taken concurrently with the capstone experience in BAT and usually supervised by the same instructor. (Offered every Spring.) Corequisites: BAT 4301

BAT-4301 Consulting Experience in Business Analytics and Technology

This is an experiential course in which teams of students conduct consultancy projects at the premises of host organizations. Teams are guided by one or more faculty members and are evaluated by both faculty and the host organizations. Topics must be strongly related to current challenges in business analytics, technology, operations, or information systems. (Offered every Spring.) Prerequisites: BAT 3305 Corequisite: BAT 4102

Finance

FNCE-1300 Personal Finance

This course cannot be used to satisfy any of the requirements for a Business degree. This course addresses the major personal financial planning issues that individuals and households face, with an overview that includes all aspects of personal financial management including budgeting, retirement planning, life and health insurance, income taxes, auto and real estate transactions, estate planning and personal investments. Topics also include establishing savings goals, using banking, credit, and other financial services, tax planning, making good investments, and comparing insurance products.

FNCE-3301 Corporate Finance

An introduction to the key concepts of modern corporate finance. It covers the theory and applications of time

FNCE-3352 Investments I

Analysis of financial instruments including securities and bonds, as well as macro and industry sector analysis. (Offered every year.) Prerequisites: FNCE 3301.

FNCE-3353 Investments II

This course covers less common investment vehicles such as real estate, private equity, hedge funds, and venture capital. (Offered every year.) Prerequisite: FNCE 3301

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.) Prerequisites: FNCE 3301 or consent of instructor.

FNCE-3362 Equity Valuation

he objective of this course is to develop the ability to value a company's equity by analyzing its financial statements and forecasting its financial performance. This class will look at differences in valuation approaches, the advantages and disadvantages of different approaches, and why different approaches are used depending on the situation. Financial principles and procedures are applied in the analysis of real world data. (Offered every year.) Prerequisites: FNCE 3301 and ACCT 3341

FNCE-3363 Student Managed Fund I

Combines study of the security analysis and portfolio management with practical demands of hands-on money management. Provides opportunity to invest university endowment funds. Topics include economic, industry, and company analysis; economic and financial forecasts; valuation models; portfolio theory; investment philosophy; ethics in investing; capital market performance history; managing endowment funds; and portfolio performance measurement. (Offered every Fall) Prerequisites: FNCE 3352, 3362 and consent of instructor.

FNCE-3366 Professionalism and Ethics in Finance

This course exposes students to a framework for making ethical financial decisions and to the professional culture of Finance including professional etiquette. Students apply abstract ethical concepts to real-world financial decisions and discuss the personal and professional penalties associate with failure to maintain the highest ethical standards. (Offered every Fall.)

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-3-97 Finance Internship

The Finance and Decision Sciences internship is to be a structured and supervised professional work experience with an accepted employer in the private, public, or non-profit sector. To be recognized, the experience must be preapproved and must include specific learning objectives, weekly and final reflections from the intern, and evaluations from the employer. An internship is typically done by a student who has attained sufficient preparation

International Business

INTB-2301 International Business Environment

This course focuses on an issue that is of fundamental importance to the study of international business: external relationships involving multinational firms. It provides participants with a theoretical and empirical understanding of how these relationships cause multinationals to behave in certain ways and what the consequences of particular courses of action might be. The course is designed to prepare students, in an integrated setting, to assess the interactions between multinational organizations and institutions (e.g. International Trade Commission, World Trade Organization). It helps participants develop awareness in the process of assessing corporate risks and opportunities to survive and grow in global markets. (Offered every Fall).

INTB-3330 Global Business Culture

This course aims to provide students with a critical and comprehensive understanding of CEO behaviors and cultural reasoning behind their success and/or failure. Emphasis is on comparative analysis of the business culture between China and the US, and related global perspectives. Extensive case applications focus on international CEO comparisons (e.g. American, Chinese, Latin American CEOs). This is a course to prepare students to interact effectively with cross-cultural business partners when doing international business. (Also listed as CHIN 3330.)(Offered every Fall).F

INTB-3396 Internship in International Business

This is a supervised, internationally oriented internship. Students registered for this course will serve as interns, under a professional supervisor, in international firms, trade organizations, or governmental/non-governmental agencies to gain experience related to a country other than their home country. The interns' responsibilities should be international business in nature and be subject to the approval of the academic supervisor. This course must be taken on a Pass/Fail basis. (Offered every semester). Prerequisites: Junior standing, completion of 15-hour business core courses, and consent of the instructor

INTB-4361 International Business Strategy

This course examines how multinational enterprises strategize in the global marketplace. Participants will examine global business, competitive and corporate strategies and their effect on firm performance. This is a core course in international business to develop expertise of internationalization. Participants will also be guided to formulate strategies for leading multinationals in the world. (Offered every Fall). Prerequisites: Senior standing and 18 hours of business core courses, or consent of the instructor

INTB-4362 International Branding

This course centers on the strategic role that corporate and product brands have played in the success or failure of multinational firms. Emphasis is on how they are managed and strategized globally. Participants will have opportunities to examine many famous brands in the world in a comparative manner (e.g., brands from the U.5, brands f

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 an urethe rtudy of oanagement tety adarea of freqdin Megulat colssoovme

employer. An internship is typically done by a student who has attained sufficient preparation in an academic field. The experience may be paid or unpaid. Variations in credit according to the work performed, from 0 to 6 hours per semester. May be repeated for a maximum of 6 hours credit. Must be taken on a Pass/Fail basis. (Offered every semester). Prerequisite: 15 hours of Core Business Curriculum, Consent of internship coordinator and Business Administration department chair.

MGMT-4381 Performance and Compensation Management

This course is designed for students with a defined interest in Management. It covers advanced human resource management (HRM) topics such as designing and evaluating performance appraisal systems in modern organizations, job evaluation, pay level and pay structure design, legally required and voluntary benefits programs, and issues with compensating non-traditional work forces. (Offered every Fall.) Prerequisite: MGMT 3371

MGMT-4382 Employee and Labor Relations

MKTG-3382 Integrated Marketing Communications

A study of the integrated marketing communications of organizations with an emphasis on coordination of effort among various advertising and promotional tools to create brand contacts that are relevant and consistent over time. This course views IMC as a consumer-centric strategic marketing process specifically intended to ensure that all messaging and communications efforts are unified and results oriented across all channels 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

literature to provide an in-depth study of the various professional standards that shape the audit process including those related to audit procedures, reporting responsibilities, and fraud.

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 & 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-5347 International Accounting

An analysis of the issues involved in accounting for multinational corporations, including environmental influences, foreign currency translation, management accounting, and international accounting.

ACCT-5349 Seminar in Ethics and Professional Responsibility

This course provides an in-depth analysis of ethical theory and ethical decision-making in practice, with a focus on issues that are likely to be faced by professional accountants.

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

ACCT-5097 Accounting Internship

A structured part-time one semester or summer internship under the supervision of accounting professionals in either private or public practice. This not-for-credit graduate internship requires employer documentation of the internship objectives and nature of work assignments, submission of employer intern evaluations, and a summary memorandum from the intern at the conclusion of the internship period. Course must be taken on a Pass/Fail basis. Prerequisite: graduate standing and approval of the instructor. (Offered every semester)

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.

MGMT-5371 Human Resources 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.

Sport Management

Faculty

<u>Carolyn Becker, Ph.D.</u>, Professor, Psychology <u>Jennifer Jacobs Henderson, Ph.D.</u>, Professor, Communication <u>Rita Drieghe Kosnik, Ph.D.</u>, Professor, Business Administration <u>John McGrath, Ph.D.</u>, Professor, Human Communication and Theatre <u>Dominic G. Morais, Ph.D.</u>, Assistant Professor, Business Administration <u>Jacob K. Tingle, Ed.D.</u>, Assistant Professor of the Practice of Business Administration; Director

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 Director of the Sport Management minor.

The requirement for the minor in Sports Management is the completion of 24 credit hours as follows (15 of which must be upper division):

A. Required courses:

MGMT 2301	Management of Organizations
SPMT 1312	Sport in Society
SPMT 3308	Sport Management*
SPMT 3309	Legal Issues in Sport

B. Community Service Experience:

Community Service combines volunteerism with pre-experience education and post experience reflection. An essential element of sport management is understanding the important role sport plays in society. As such, minors must complete a total of 50 community service hours. In order to successfully complete the requirement, students are expected to complete an average of 12.5 community service hours over four semesters.

SPMT 3000 Community Service Experience*

C. Six hours in elective Sport Management courses (to include no more than three hours in SPMT 3-90 or SPMT 3-99):

COMM 3357	Sport Media (also listed as SPMT 3317)*
PHED 1165	Intramural Programming (also listed as SPMT 1165)
SPMT 1165	Intramural Programming (also listed as PHED1165)
SPMT 1306	Sport Officiating
SPMT 1314	Athletic Facility and Event Management
SPMT 3108	Sport Sales Laboratory*
SPMT 3314	History of American Sport*
SPMT 3315	

COMM 3364	Ethics in Mass Media*
HCOM 1333	Public Speaking
MKTG 3381	Consumer Behavior*
MKTG 3382	Integrated Marketing Communications

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 included 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-3000 Community Service Experience

This course combines community service at designated local non-profit sport agencies with pre-experience education and post experience reflection. May be taken multiple times. Offered P/F only. (Offered every semester.) Prerequisite: Consent of Instructor

SPMT-3108 Introduction to Sport Sales

Explores the application of sport sales techniques, with an emphasis on group sales, in a professional team setting. Students will have significant interaction with local ticket industry professionals and work in teams to successfully sell group tickets to a local sporting event. Offered P/F only. (Offered every Fall.) Prerequisite: MGMT 2301 Corequisite: Should be taken concurrently with SPMT 3308

SPMT-3308 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 legislations including Title IX, discrimination issues, and antitrust arbitration decisions.

SPMT-3314 History of Sport in the United States

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: SPMT 1312 (Sport in Society)

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 goald

England represents an ideal location because it gave birth to a multitude of sports which are popular globally and because the notion of amateurism as a counterpoint to professionalism stems directly from the British class system. This class introduces students to the major historical themes in British sport, acquaints students with the British systems of organized sports organizations, and compares the American and British sport models. (Offered every other year.) Prerequisites: SPMT 1312 and consent of instructor

SPMT-3-90 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, 1 to 3 credit hours. Class may be repeated once, provided the topic varies. Prerequisite: Consent of instructor

SPMT-3-99 Sport Management Internship

The Internship is to be structured and supervised professional work experience with an accepted employer in the private, public or non-profit sector. To be recognized, the experience must be pre-approved and must include specific learning objectives. An internship is typically done by a student who has attained sufficient preparation in an academic field. The experience may be paid or unpaid. Variations in credit according to the work performed, from 0 to 6 hours. Must be taken on a Pass/Fail basis. 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: SPMT 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 Usuden emphave in . Urpointe cou te co

Urban Studies

Faculty

Core Faculty

<u>Christine Drennon, Ph.D.</u>, Associate Professor, Sociology and Anthropology <u>Shana McDermott, Ph.D.</u>, Assistant Professor, Economics <u>Tahir H. Naqvi, Ph.d.</u>, Associate Professor, Sociology and Anthropology <u>Kathryn O'Rourke, Ph.D.</u>, Associate Professor, Art and Art History; Acting Director

Contributing Faculty

<u>Nels Christiansen, Ph.D.</u>, Associate Professor, Economics <u>Kenneth Loiselle, Ph.D.</u>, Associate Professor, History <u>Curtis Swope, Ph.D.</u>, Associate Professor, Modern Languages and Literatures <u>Carey H. Latimore IV, Ph.D</u>, Associate Professor, History <u>Timothy O'Sullivan, Ph.D.</u>, Professor, Classical Studies

Overview

Urban Studies is an interdisciplinary major that focuses on the global phenomenon of urbanization as well as the history and nature of cities. The program incorporates a wide variety of disciplinary approaches to the study of urbanization, urban processes, urbanity, and urbanism. Students explore the city from multiple perspectives, which prepares them for graduate work in several disciplines and careers in fields concerned with urban life. Urban Studies majors have extensive interaction with the city in research, class projects, and internships. Students are encouraged to shape their course of study according to their interests in consultation with their advisor.

Requirements

The Major

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

I. Specific major degree requirements (34-39 credit hours total):

A. The Core Curriculum:

URBS/SOCI 1310 The Urban Experience

One methods class from the following list:

URBS/SOCI 3465	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

The Senior Experience:

URBS 4494

Capstone in Urban Studies

B. The Interdisciplinary Curriculum: at least 24 credit hours from the following list (18 of which must be at upper-division level):

ANTH 4352	Global Cities
ANTH 3445	Understanding Refugees
ARTH 1412	Art and Architecture of Latin America Since the Sixteenth Century
ARTH 3452	Nineteenth-Century Architecture and Urbanism
ARTH 3454	Mexico City
ARTH 3464	Twentieth-Century Architecture and Urbanism
CLAS 1308	Daily Life in Ancient Rome
ECON 3323	The Economics of Government
ECON/URBS 3334	Urban Economics
GEOS 1304	Environmental Geology
GRST 3307	Berlin: From Cabarets to Communists
HIST 1371	The African-American Experience since Reconstruction
HIST 3333	History of Paris
PLSI 3413	

The Minor

Students may complete a minor in Urban Studies by meeting the following requirements:

I. Completion of 18 credit hours of Urban Studies courses, including:

A. URBS/SOCI 1310 The Urban Experience

Urban Studies electives (15 credit hours) chosen from the course list above.

Additional Requirements:

At least 9 hours of the total must be in upper-division courses.

No more than 12 of the hours used to satisfy the minor requirements (including crosslisted courses) may come from any one department.

At least 9 hours of the total must come from URBS courses (including cross-listed courses).

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. (Also listed as SOCI 1310.) (Offered every year.)

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 SOCI 2328). (Offered occasionally).

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-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: At least 3 hours completed in Sociology

URBS-3460 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

This course covers most significant issues of contemporary policies and public policy in China. It explores the forces changing the lives of nearly a fifth of humanity, the 1.1 billion people of China. This course is designed to be experimental in both subject and teaching methodology. In order to explore the political, economic, and social processes of liberalization that have created this new era of the increased circulation of people, ideas, commodities and technologies across national boundaries, seminar participants must use materials and methods from many scholarly disciplines and traditions: urban studies, political science, sociology, history, anthropology, economics, and media/cultural studies. In order to study these increasingly mobile populations that often fall outside the boundaries of conventional area studies approaches, students must develop innovative comparative case study and survey methodologies. (Also listed as PLSI 3366, CHIN 3366).

URBS-3367 Comparative Views of Modern China

This course represents an overview of the most important economic relationship of the twenty-first century. The global financial crisis that started in 2008 revealed just how much the strategic relationship between China and the

institutions, and of refugees themselves. The ways in which refugees negotiate the trauma of the past and the demands of everyday life in cities in their hose countries will also be examined. Includes a directed field research experience. (Also listed as ANTH 3445 and SOCI 3445.) (Offered every other year.) Prerequisite: At least 3 hours completed in ANTH, SOCI, or URBS

URBS-3452 Global Cities: Africa, Asia, and the Americas

This course offers theoretical and empirical tools for the study of urban processes in Asia, Africa, and the Americas. It examines the major problems of housing and infrastructure confronting cities in these regions, and emphasizes the role of globalization in urban transformation. (Offered every other year.) (Also listed as ANTH 3452.) Prerequisite: URBS 1310 or at least 3 hours completed in ANTH

URBS-3465 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 3465.) (Offered every year.) Prerequisite: SOCI 3359 or ANTH 3359

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.

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up to four 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

CLAS 1307	Gender and Identity in the Ancient World (also listed as HIST 1311)
HIST 1311	Gender and Identity in the Ancient World (also listed as CLAS 1307)
MUSC 1345	Women and Music
SOCI 2311	Sociology of Sex Roles
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 3403	Greek and Roman Drama (also listed as DRAM 3325 and ENGL 3322)
CLAS 3404	The Ancient Novel
COMM 3325	Special Topics in Communication Media: Queer Theory and Mass Media
ENGL 3322	Green and Roman Drama (also listed as CLAS 3403 and THTR 3325)
ENGL 3427	Contemporary Literature
ENGL 3337	Literary Theory

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PLSI 1332	Film, Literature, and Politics of the Third World
RELI 3401	Gender and Religion
SPAN 4338	Spanish Women Writers
SPAN 4348	Spanish American Women Writers
SPAN 4348	Sexualities in Hispanic Literatures and Films
SPAN 4391	Special topics: Chicana Feminisms
THTR 3325	Greek and Roman Drama (also listed as CLAS 3403 and ENGL 3322)
WAGS 3401	The History of Sexuality: Sex and Gender in Modernity

Social Sciences

ANTH 2339	Health, Illness, and Society (also listed as SOCI 2339)
ANTH 3329	Sexuality and Society (also listed as SOCI 3329
ANTH 3331	Language, Culture, and Society (also listed as SOCI 3331)
ANTH 3345	International Issues in Health and the Environment (also listed as SOCI 3345)
ANTH 3428	Gender Transgressions (also listed as SOCI 3428)
COMM 3325	Special Topics in Communication Media: Popular Culture, Gender, and Communication
PLSI 3349	Special Topics in International Politics: Women in Islam
PSYC 2323	Psychology of Gender
PSYC 3322	Social Development
SOCI 2311	Sociology of Sex Roles
SOCI 2312	Sociology of Marriage and the Family Experience
SOCI 3313	Social Movements
SOCI 3329	Sexuality and Society (also listed as ANTH 3329)
SOCI 3331	Language, Culture, and Society (also listed as ANTH 3331)
SOCI 2339	Health, Illness, and Society (also listed as ANTH 2339)
Colloquia	
WAGS 3-17	Gender Studies Colloquium

WAGS 3-18 Women's Studies Colloquium

This course analyzes gender and sexuality by addressing topics organized under themes selected by participating faculty through class discussions, lectures, student presentations, and visiting speakers. Students may enroll in the colloquium no more than three times.

WAGS-3-18 Women's Studies Colloquium

The colloquium meets under direction of faculty of the Women's and Gender Studies Advisory Committee. Session topic are organized around themes selected by the Advisory Committee, to be explored through class discussions, faculty research, student presentations, and visiting lecturers. Students may enroll in the colloquium no more than three times.

WAGS-3-19 Queer Studies Colloquium

The Queer Studies Colloquium analyzes the variety of gender identities and representations, including lesbian, gay, bisexual, transgender and transsexual topics. In addition, this course help understand conventional heterosexuality within a broader context. Session topics are organized around themes selected by University faculty, to be explored through class discussions, lectures, student presentations, and visiting speakers. Students may enroll in the colloquium no more than three times.

WAGS-3122 Women's and Gender Studies Internship

Entails work experience with issues pertaining to women, gender, or sexuality. Students are expected to select a