



Course of Study Bulletin

Courses of Study 2017-2018

Undergraduate and Graduate Studies Effective June 2017 for the 149th Academic Year.

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CoSB Guidelines

Academic Regulations

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

Academic Workload

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

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

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

Undergraduate Enrollment in Graduate Courses

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

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

C	Adequate	2.000
C-		1.667
D+	Poor	1.333
D		1.000
F	Failure	0.000
I		Incomplete
W		Withdrew from Course
PP		Passing in a pass/fail course
FF		Failing in a pass/fail course
PR		In progress (thesis course only)

All A, B, C, and D grades are passing grades. A grade of W is not included in computing grade averages. Grades of I and PR are not included in the grade average. If the student is unable to finish the thesis during the second semester, the thesis adviser upon evaluation of the work the student has completed to date can change the first semester PR grade to PP or FF. Courses in which F and FF grades are received must be repeated at Trinity to receive credit.

Grades in Major or Minor

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

A course taken for a student's major (minor) in which the student earns a grade of D (for example) satisfies the requirements for the major (minor), but the student must have an overall average on all courses for the major (minor) of 2.0. Should the student choose to repeat a course in which a grade of D (for example) was earned, both grades are included in determining the grade point average in the major (minor). If a student is a double major, each major is considered separately and without regard to the other major in determining whether graduation requirements are satisfied. If a course, such as a cross-listed course, is required for both majors, it is included in the grade point calculation for each major.

Grades for Prerequisite Courses

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

Grade Reports

Reports of grades for all students are available online from the Trinity University website at the close of each semester. Hard copies of grade reports are available from the Office of the Registrar upon request by the student. The semester grades become a part of the student's permanent record. Mid-semester grades of C- and lower are not permanently recorded but are posted online for information and guidance.

Pass/Fail Option

A student may register for an elective course on a Pass/Fail basis and not be in competition with majors in that field for a course grade. This option is intended to encourage the student to explore new academic areas without endangering the student's grade average.

Limitations on Pass/Fail registration are:

- A. Only one course per semester may be taken Pass/Fail.
- B. No course counted for the major or minor and no course being used to meet a Common Curriculum or Pathways requirement may be taken Pass/Fail unless the course is offered exclusively on a Pass/Fail basis.
- C. Pass/Fail courses must be listed at the time of registration and may not be changed after the date specified in the academic calendar (15 days from start of classes) to a letter grade basis; conversely,

Grade Appeals

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

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

1. To initiate the appeal of a semester grade, the student will speak to or notify the instructor of his or her appeal. Upon initiation of the appeals process (and upon return of both student and faculty member to Trinity, if the appeals process was deferred), the instructor has one week to notify the student of the outcome of his or her review of the grade. If the student remains convinced that the contested grade results from inappropriate or mistaken evaluation of a course grade, then the student may proceed to step two below.
2. To initiate step two, the student will notify the instructor's departmental Chair (or acting department Chair) and explain in writing the grounds on which an appeal is being sought; the instructor will receive a copy of this statement. The student must request the appeal and present the grounds for it no later than the tenth class day of the succeeding Fall or Spring semester. The chair will attempt to mediate a discussion between the student and the instructor to clarify the matter and suggest possible resolutions. If the Chair happens also to be the instructor involved, then the student may request that the Associate Vice President for Academic Affairs: Curriculum and Student Issues ask another faculty member of the department to receive the student's appeal.
3. If this mediation is unsuccessful, the Chair (or the Chair's substitute) will appoint two tenured members of the department to serve as a review committee, and will notify the student and the instructor of this action. In the case of a General Education or cross-listed course, the instructor's Department will serve as the site for the appeals process. If the student is a major or minor in the Department, the student may ask his or her adviser to be an additional member of the committee. If a small department cannot provide two eligible faculty members to serve on the committee, then the Chair (or the Chair's substitute) will ask a faculty member from a department similar in curriculum and academic evaluation to serve on this committee. Departmental review committees may be convened only during an academic semester. The departmental review committee will receive written statements from both the student and the instructor, as well as copies of any graded work involved. In addition, both the student and the instructor (and the student's academic adviser, if requested) may be present for the duration of the hearing (prior to voting),

during which both parties may offer clarifying statements. The department Chair will also be present at the meeting, but will not be involved in the determination of the appeal. If, after considering these statements, the committee decides that there has been no breach of proper or stated procedure in the determination of the grade, the Chair (or the Chair's substitute) will give written notification of this decision to the student and the instructor. However, if the departmental committee determines that there has been an improper evaluation, the Chair (or the Chair's substitute) shall advise the instructor to reconsider the student's semester grade in a manner consistent with proper and stated procedures. If the instructor rejects this advice or fails to comply in a manner satisfactory to the committee, then the committee may undertake an evaluation of the student work in question and assign the grade it deems appropriate.

4. If either the student or the instructor contests the decision of the departmental committee, the student or the instructor may pursue a further appeal. The student or the instructor will submit a written statement to the Chair of the Faculty Senate who, with the advice and consent of the Chair of the University Curriculum Council, will appoint three members of the faculty from outside the department in question. All three members of this Faculty Grade Appeals Committee should come from one or more departments similar to the instructor's department in terms of curriculum and student evaluation. The findings of this committee will determine the final semester grade.
5. If either the student or the instructor contests the decision of the Faculty Grade Appeals Committee, the appellant may petition the Vice President for Academic Affairs for further consideration, who may then rule in one of three ways, the outcome of which will conclude the University process of grade appeal:
 - A. That the decision of the Faculty Grade Appeals Committee will stand as rendered;
 - B. That the Faculty Grade Appeals Committee reconsider its findings and render a decision based on the reconsideration; or
 - C. That the Chair of the Faculty Senate, with the advice and consent of the Chair of the University Curriculum Council, appoint a new Faculty Grade Appeals Committee, composed of three tenured faculty members who have not previously participated in the appeal. This committee will hear the appeal and render a final judgment.

Dean's List

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

Access to Records

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

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

Academic Standing

Good Standing

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

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

Satisfactory Academic Progress

- I. Students who carry a full load of courses are expected to make satisfactory progress toward completion of a degree within a reasonable time. The standards for Satisfactory Academic Progress (SAP) are as follows:
 - A. Students must average at least 12 hours per semester.
 - B. Students must complete at least 24 hours per academic year unless on an officially approved leave.
 - C. Students who enroll mid-year must complete at least 12 hours prior to the start of the fall semester.
 - D. Summer hours earned after matriculation may be included in the calculation of SAP.
 - E. Credit by examination and transfer hours earned prior to matriculation may not be included in the calculation of SAP.

II. Student-Athletes

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

III. Transfer Students

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

Satisfactory Progress Requirements for Undergraduate Financial and

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

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

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

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

Dismissal From a Class and Student Attendance

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

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

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

Policy Regarding Disruption of Class

Students will not be permitted to behave in such a manner as to disrupt the orderly conduct of classroom activities. When such behavior occurs, it is the responsibility of the instructor to discuss the matter with the student involved, warning the student that continuation of such behavior may result in dismissal from the class. If

Academic Guidelines

1. Academic departments have the option to formally recognize professional work experiences undertaken by students, but there is no institutional requirement to do so.
2. Departments that recognize internships will designate one or more faculty member(s) to act as the internship instructor(s) prior to the student beginning the experience.
3. Departments that recognize internships will establish criteria and eligibility for student participation in the internship program.
4. Academic credit is regulated as follows:
 - A. The recommended standard for awarding credit is at least 40 hours of work per one hour of academic credit.
 - B. A maximum of 6 credit hours per experience is allowed.
 - C. A maximum of 6 hours of internship credit may be applied to a Trinity degree.
 - D. If no credit is awarded, a department may create, with University Curriculum Council approval, a zero credit internship course to be graded on a pass/fail basis as a mechanism by which to recognize the experience on the academic transcript.
5. Prior to each internship for credit, the student will complete and submit a Learning Agreement to the department chair and/or the supervising instructor. The Learning Agreement will include:
 - The student's personal learning goals for the internship
 - The student's academic responsibilities
 - Phone(s), address, and contact information for both the employer and supervisor
 - The Job Description, including number of work hours to be completed (provided by employer)
 - Student affirmation of good academic standing
 - Acknowledgment of receipt of the departmental internship guidelines
 - Number of credit hours
 - The document will be signed and dated by the student and approved by the internship instructor, the student's advisor and/or department chair (as specified in the departmental internship guidelines).
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 host organization or the host supervisor/manager is an immediate relative of the student intern.

Student Guidelines

1. The responsibility for obtaining an internship lies solely with the student; students are encouraged to utilize faculty, Career Services, and other personal and alumni networking resources.
2. Students must be in good academic standing in order to participate in an internship.
3. No internship for academic credit shall be permitted without a pre-approved Learning Agreement.
4. Students are responsible for officially registering for an internship course through the Office of the Registrar. Credit will not be awarded retroactively.
5. The student will normally register in the internship course for the semester or summer term that

experience to the student's internship instructor. Any significant deficiencies in the student's performance should be reported to the internship instructor.

Center for Experiential Learning and Career Success

The Center for Experiential Learning and Career Success (CELCS) has numerous resources to support the establishment of internships and to improve efficiency in the management of interns. These services are available to any academic department at its request.

At the department's request, the CELCS will:

1. Assist with job development and employer/recruiter relations.
2. Assist with the development of internship guidelines, appropriate learning objectives, and employer requirements.
3. Provide resources to students for obtaining internships including the use of TigerJobs for intern posting and resume referral.
4. Provide assistance to employers wanting to develop, improve, or meet University criteria for an internship program.
5. Assist employers with the intern recruitment process.

Classical Studies:	
- Classics	CLAS
- Greek	GREK
- Latin	LATN
Communication	COMM
Comparative Literature	CMLT
Computer Science	CSCI
Economics	ECON
Education	EDUC
English	ENGL
Engineering Science	ENGR
Entrepreneurship	ENTR
Film Studies	FILM
First-Year Experience	FYE
General Education	GNED
Geosciences	GEOS
Health Care Administration:	
- Health Care Administration	HCAD
- Executive Program	HCAI
History	HIST
Human Communication and Theatre:	
- Human Communication	HCOM
- Theatre	THTR
Humanities	HUMA
International Studies	INTL
Languages across the Curriculum	LAC
Linguistics	LING
Mathematics	MATH
Mathematical Finance	MFIN
Medieval and Renaissance Studies	MDRS

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

Degree Requirements

- [Pathways: The Trinity Curriculum](#)
- [Information Literacy at Trinity University](#)
- [Graduation Requirements](#)
- [Residency Requirements](#)
- [Student Responsibility](#)
- [Guidelines](#)
- [Curricular Element I: The First-Year Experience](#)
- [Curricular Element II: Approaches to Creation and Analysis](#)
- [Curricular Element III: The Core Capacities](#)
- [Curricular Element IV: The Interdisciplinary Cluster](#)
- [Curricular Element V: The Major](#)
- [Curricular Element VI: Fitness Education](#)
- [Curricular Element VII: Experiential Learning](#)
- [The Minor](#)
- [Graduation with Honors](#)
- [Phi Beta Kappa](#)
- [Preprofessional Programs](#)
- [Guidance for Students Interested in Ministry](#)
- [General Degree Regulations](#)

Pathways: The Trinity Curriculum

Trinity University offers undergraduate programs leading to the Bachelor of Arts, Bachelor of Science, and Bachelor of Music degrees. The University is fundamentally committed to ensuring that all Trinity undergraduate degrees represent the broad base of general learning with an underlying commitment to responsible participation in human affairs, which is called a liberal education.

The Trinity Curriculum has six Curricular Requirements that provide the foundation in the liberal arts and sciences for all the bachelor's degrees awarded by Trinity University. Through these requirements, students acquire the necessary skills and disciplinary perspectives to navigate complex questions at Trinity and in their post-graduate lives. The requirements that must be completed in order to receive the bachelor's degree are as follows:

1. The First Year Experience (FYE)
2. Approaches to Creation and Analysis
3. The Core Capacities
4. The Interdisciplinary Cluster
5. The Major
6. Fitness Education

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

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:

- The eight courses used to fulfill the Approaches to Creation and Analysis and the Interdisciplinary Cluster must come from at least seven different disciplines.*
-

- No course may be used to satisfy both the Approaches to Creation and Analysis and the Interdisciplinary Cluster requirement
- No course that has been approved for one Core Capacity may be approved for another.
- 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." When a student completes a cross-listed course to fulfill the Approaches to Creation and Analysis or the Interdisciplinary Cluster, it is as if he or she has taken any of the subject code versions of that course, which may exclude future course selections. As an example, URBS 1310 is cross-listed as SOCI 1310, and ANTH 3360 is cross-listed as SOCI 3360, so a student who completed URBS 1310 and ANTH 3360 would be considered as having taken two SOCI courses and could not apply any further course from or cross-listed with SOCI to the Approaches or Cluster requirements.

Curricular Element I: The First-Year Experience

Students should demonstrate the ability to analyze sophisticated texts and ideas through (1) reasoned discussion of substantive issues; (2) oral presentations; (3) analytical and argumentative writing; and (4) locating and evaluating diverse information sources to enhance their understanding of course materials.

Requirements:

All incoming students must complete one First-Year Experience during their first semester at Trinity. A new transfer student with 26 credit hours of transfer credit or whose high school graduation date is a year or more prior to his or her matriculation at Trinity is exempted from the First-Year Experience requirement. The total number of hours required for any Trinity degree shall not be reduced by an exemption from the First-Year Experience.

Explanation:

The First-Year Experience includes 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 multiple sections linked by a common syllabus and a weekly common learning experience for all students and faculty. Each section, comprised of approximately 15 students, is taught by two instructors from different departments, and is the equivalent of two three-hour courses for students.

courses designated with the abbreviation **OVC**.

Explanation:

Every **WC** course requires extensive writing and provides substantial instruction in written communication.

Every **OVC** course requires significant oral presentation supported by visual products and provides substantial instruction in oral and visual communication.

B. 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. Engaged Citizenship

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

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 bulletin in the departmental listings. Students may elect multiple disciplinary majors or construct a second, interdisciplinary major in consultation with their major advisers.

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

After students achieve sophomore standing and before achieving junior standing (58 credit hours completed), they must apply for admission to the chair of the department in which they wish to major or to the chair of the interdepartmental major. Students may be accepted without conditions or accepted on a provisional basis. Provisional status, if imposed, should be noted on the form. At the end of the provisional period, the chair will notify the student and the Office of the Registrar of the final decision of the department or program. As part of the application process, students are strongly encouraged to complete an online evaluation of the first-year advising program.

Curricular Element VI: Fitness Education

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

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

This requirement may be satisfied by successfully completing one approved course.

Curricular Element VII: Experiential Learning

Trinity University believes that experiential learning is an important part of how students learn to apply knowledge in a real-world environment. It is therefore recommended that all Trinity University students complete at least one

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;
 - Field experiences designed to integrate academic study and career exploration; or
 - Civic engagement.

We anticipate that many current departmental senior experiences meet the guidelines for an EXL opportunity, either as recognized courses or as part of the Fellows program. Once the curriculum is fully implemented, Trinity will consider designing an EXL certificate.

The Minor

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

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

Contact the Office of Academic Affairs for further information.

Preprofessional Programs

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

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

Health Professions Advisory Committee

The Health Professions Advisory Committee (HPAC) develops plans for students to progress through sequences of preparatory work required for postgraduate study in the professions of medicine, dentistry, and certain allied health

Prelaw Advisory Committee

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

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

Guidance for Students Interested in Ministry

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

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 student's particular academic background.

General Degree Regulations

Awarding of Degrees

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

Application for 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.

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

instructor of the class is required.

Add/Drop Period

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

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

Withdrawal from a Course

The University Registrar establishes a course withdrawal deadline for each semester and summer session. The last day to withdraw from a course shall be during the 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

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

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

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

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

Dual Credit

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

Credit by Examination

All credit by examination is recorded on the student's permanent record as credit (CR) without a grade and becomes part of the official transcript. No credit is valid without the student's enrollment for credit at Trinity University. Transfer credit for this information is available for credit for the Semester in

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

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

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

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

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

Four-Year Program:

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

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

FLIGHT TRAINING:

The AFROTC has a very competitive program for qualified people who desire to become a pilot or navigator. There

are particular physical qualifications, which include vision, height/weight, Air Force Officer Qualifying Test scores, and health history. AFROTC pilot candidates attend Introductory Flight Training, which pays for a private pilot's license if the member does not have one already.

SCHOLARSHIPS AND REMUNERATION:

Air Force ROTC offers 4-, 3.5-, 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 <mailto:rotc@stmarytx.edu>.

Four-Year Program:

Uniforms and Equipment:

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

Courses:

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

MS 1101 FUNDAMENTALS OF LEADERSHIP AND MANAGEMENT 1 SEM. HOUR

Organization of the Army and ROTC; career opportunities for ROTC graduates, and the military as a profession.

General Information

- [Mission](#)
- [Independent Status, Charter, Covenant](#)
- [Accreditation](#)
- [Non-Discrimination and Diversity Policy](#)
- [Security Policy Statement](#)
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Mission

Trinity University is a transformational liberal arts and sciences university with selected professional and pre-professional programs. In pursuit of this mission, Trinity is committed to the highest levels of academic and professional excellence in teaching, research, learning, service, leadership, and personal integrity. Trinity embraces innovation in all pursuits: rigorous and relevant courses, supportive mentoring relationships, and a wealth of learning opportunities wherever they occur. Trinity prepares its graduates to pursue lives of meaning and purpose.

Independent Status, Charter, Covenant

Trinity University is an independent university founded in 1869 by Presbyterians, an institution that served a full century as the college of The Synod of Texas. In 1969 a covenant was adopted between the Synod and the

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 inquiries regarding admissions requirements, financial aid, and educational programs, should be addressed directly to Trinity University and not to the Commission's office. For more information about the Commission, please visit their web site at <http://www.sacscoc.org/>.

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

A chapter of Phi Beta Kappa is active on the Trinity campus. In addition, Trinity University is approved and accredited by the Texas Education Agency and the United States Office of Education. The Department of Chemistry is approved by the American Chemical Society. The Bachelor of Science degree in Chemistry and the Bachelor of Science degree in Biochemistry are certified by the American Chemical Society.

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

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

The Department of Health Care Administration is accredited by the Commission on Accreditation Healthcare Management Education (CAHME) for its health care administration program.

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

Non-Discrimination and Diversity Policy

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

state, or local laws.

Trinity University does not and will not discriminate against any employee or applicant for employment because of race, color, religion, sex, age, national origin, disability (if otherwise qualified for the job), military/veteran status, sexual orientation, or any other status protected by federal, state, or local laws. The University is committed to making employment-related decisions according to an applicant or employee's experience, talent, and qualifications, without regard to his/her race, color, religion, sex, age, national origin, disability (if otherwise qualified for the job), military/veteran status, sexual orientation, 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 Policy and Campus Crime Statistics Act, additional information regarding security policies and crime statistics is available from the Office of the Director of Campus Security, Trinity University, (210) 999-7070. This information is also available at the internet website:

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 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.

Bachelor's Degree Requirement

Graduates holding the bachelor's degree from an institution accredited by the appropriate regional accrediting organization and fulfilling all other requirements listed in this bulletin may be considered for regular admission to graduate study. Graduates of colleges that are not accredited by the appropriate regional accrediting organization may be considered for provision admission. (For students who hold degrees from institutions outside the United States, see Foreign Studies Evaluation, below.)

Prerequisite Course Requirements

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

Requirements for Regular Admission

To be considered for regular admission, an applicant must submit all required documentation and present evidence of the following:

1. A grade point average of 3.00 or better on the last 60 hours of undergraduate level work or a grade point average of 3.00 or better on all courses taken in the undergraduate major or any relevant concentration. (Students who have earned at least 18 hours of graduate level credit must have a GPA of 3.00 or better on all graduate course work attempted. Graduate course work may be considered in lieu of undergraduate course work.)
2. Acceptable scores on the Graduate Record Examination or Graduate Management Admission Test, as articulated by the individual program or department.

In evaluating an application for graduate study, the department chair or program director will consider the applicant's commitment to and suitability for the relevant profession. Applicants who meet the requirements for regular admission may nonetheless be denied admission if significant academic, ethical, or dispositional concerns are identified as part of the admission process.

Requirements for Provisional Admission

Applicants who fail to meet the requirements for regular admission may be considered for provisional admission. Students admitted provisionally are considered to be fully admitted to their respective graduate programs.

The final decision on provisional admission is made by the Office of Academic Affairs after receiving the recommendation of the department chair or program director.

Students admitted provisionally shall be reviewed after completion of their first 6 hours of graduate study. Those with a grade point average below 3.00 shall be dismissed from the graduate program.

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;
-

PP	Pass in a pass/fail course
FF	Failure in a pass/fail course
NC	Non-credit
Pass/Fail	Departments desiring to offer selected courses only on a Pass/Fail basis may do so with prior approval of the Office of Academic Affairs.
W	Withdrawn Graduate students may withdraw from a graduate course with a grade of W any time up to the time that mid-semester grades are due for that semester or during the first two weeks of summer session. Such withdrawal must be filed at the Office of the Registrar. Nonattendance does not constitute withdrawal from a class. Students may withdraw with a grade of W up to final examination week. However, such withdrawal must be approved by the Department Chair or Graduate Program Director in consultation with the instructor.

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

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

Probation and Dismissal:

Probation:

A graduate student will be placed on academic probation following any term in which the student fails to achieve a grade point average of at least 3.00 or receives a grade of F in any course, regardless of the level of courses taken and the cumulative grade point average. A student on probation may not hold a graduate assistantship.

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

Grade Appeals

Trinity University recognizes that students are responsible for maintaining standards of academic performance established for each course in which they are enrolled. However, the Commission will consider the student's academic performance

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.

Withdrawal

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

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

Course Catalog

African American Studies

Faculty

[William T. Burke III, J.D.](#) , Associate Professor, Business Administration

[Anene Ejikeme, Ph.D.](#) , Associate Professor, History

[Carey H. Latimore IV, Ph.D.](#) , Associate Professor, History; Co-Director

[Kimberlyn Montford, Ph.D.](#) , Associate Professor, Music; Co-Director

[David Rando, Ph.D.](#) , Associate Professor, English

[Michael Soto, Ph.D.](#) , Associate Professor, English

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 2304	American Literature: New Realism through the Moderns
ENGL 3371	American Literature of the Nineteenth Century: The Turn of the Century
ENGL 4323	Studies in American Literature: The Circum-Atlantic World
ENGL 4323	Studies in American Literature: Harlem Renaissance

ENGL 4326	Seminars on Individual Authors: Thomas Pynchon and Toni Morrison
ENGL 4325	Seminar in Literary Periods: Turn-of-the-Century African American Literature
HIST 1340	Latin American Cultural Traditions
HIST 1360	The History of the United States Through Reconstruction
HIST 1361	The History of the United States Since Reconstruction
HIST 3300	Gender Matters in African History
HIST 3374	The Old South
HIST 3384	Slavery and the Atlantic Economy (also listed as ECON 3343)
MUSC 1346	Jazz History and Styles
PLSI 3352	Civil Rights and Liberties
SPMT 1312	Sport in Society

II. Additional guidelines for the selection of coursework:

- At least 9 hours of the total shall be upper division courses.
- 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.
- When departments offer a relevant special topics or variable content course, the Faculty

Advisory Committee may designate such a course as meeting a relevant requirement for the minor.

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

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

Courses

AFAM-1310 Introduction to African American Studies

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

AFAM-3310 African American Studies Internship

Supervised on and off campus work in an institution serving the African American community in the greater San Antonio area. The particular institution and internship experience must be arranged and approved by the student,

American Intercultural Studies

Faculty

[William T. Burke III, J.D.](#) , Associate Professor, Business Administration; Director

[Peter O'Brien, Ph.D.](#) , Professor, Political Science

[Richard K. Reed, Ph.D.](#) , 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

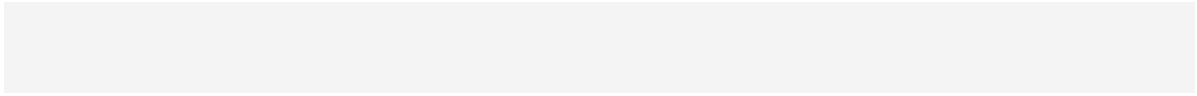
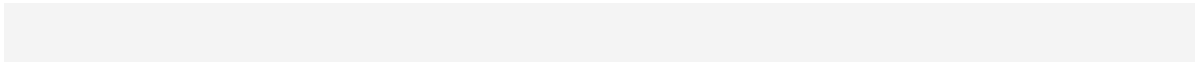
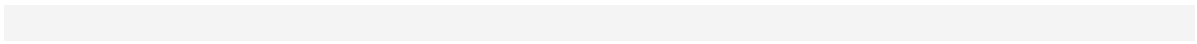
The requirements of the American Intercultural Studies minor are as follows:

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



ENGL 3414	Advanced Exposition and Argument*
ENGL 3335	Rhetorical Analysis*
FREN 3305	Introduction to French Literature I*
FREN 3306	Introduction to French Literature II*
FREN 4304	Topics in French Literature of the Eighteenth Century*
FREN 4305	Topics in French Literature of the Nineteenth Century*
MUSC 3341	Music History 1: Ancient Greece to Mozart*
MUSC 3342	Music History 2: Classical Era to the Present*
PHIL	All upper division courses**
PLSI 3352	Civil Rights and Liberties
PLSI 3361	Classical Political Thought
PSYC 2401	Statistics and Research Methods
PSYC 3451	Clinical Psychology*
RELI 1320	Ethical Issues in Religious Perspective
RELI	All upper division courses*
SOCI 2306	Intro to Social Psychology
SPAN 3321	Spanish Cinema*

Principles of Organizations and Communities

BUSN/HCOM 3362	Organizational Communication
HCOM 1300	Theories of Communication
HCOM 1333	Public Speaking
HCOM 2304	Interpersonal Communication
HCOM 3360	Small Group Communication
HCOM 3364	Communication and Effective Leadership
PLSI 3303	Elections and Campaigns*
THTR 1343	Improvisation

APPLICATIONS

ALE 3301	Grant Writing and Fundraising*
ALE 4-90	Internship
ART 1310	Design
ART 3314	Issues in Contemporary Art*
ART 2314/ENGL 2340/GNED 2340/MUSC 2340/THTR 2340	Creative Thinking and the Artistic Process
BUSN 2301/ECON 2320	Statistics for Business and Economics
BUSN 3335	Entrepreneurship and Venture Planning*
ENTR 2190	Exploring Entrepreneurship Opportunities*
ENTR 3340	Innovation, Design and Entrepreneurship*
ENTR 3341	Entrepreneurial Planning and Strategies*
MKTG 2301	Principles of Marketing
MKTG 3382	Promotion Management*
MUSC 4321	Applied Music Pedagogy
SPMT 3316	Leadership for Sport Professionals
THTR 3227	Stage Management
THTR 3343	Arts Management

**This course has at least one prerequisite.*

***Excluding PHIL 3-90, PHIL 3-91, and PHIL 4-90.*

Distribution Requirement:

No more than six (6) of the elective credit hours used to satisfy the minor requirements may come from any one department. Additionally, ALE minors who are also pursuing any major in the School of Business may not use any Business course other than MGMT 2301 to fulfill this minor.

Certification

The Arts, Letters, and Enterprise Certification gives students an opportunity to build knowledge while also gaining practical experience in an internship off campus. This path requires fewer hours than the Minor. ALE Certification

is especially suited for students pursuing a degree in clinical sciences, engineering sciences, social sciences, or those interested in non-profit management. It requires completion of at least 12 credit hours, as listed below, plus a supervised internship of one-semester duration or the equivalent.

Students may not receive both an ALE minor and certification.

The program offers a certification as a supplement to traditional majors and minors. Students earn the certification by:

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 member's 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*
FREN 4304	Topics in French Literature of the Eighteenth Century*
FREN 4305	Topics in French Literature of the Nineteenth Century*
MUSC 3341	Music History 1: Ancient Greece to Mozart*
MUSC 3342	Music History 2: Classical Era to the Present*
PHIL	All upper division courses**
PLSI 3352	Civil Rights and Liberties
PLSI 3361	Classical Political Thought
PSYC 2401	Statistics and Research Methods
PSYC 3451	Classical Pol2

sector, but the course is also appropriate for students interested in the arts, teaching, and research who anticipate a need for grant & fundraising expertise in their planned careers. Prerequisite: Junior standing.

ALE-4-90 Internship

The internship is to be a structured professional work experience with an accepted employer in the private, public or non-profit sector. To be recognized, the experience must be pre-approved, must include specific learning objectives, and must include an academic component. 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. A maximum of 6 hours of internship credit may be applied to a Trinity degree. Prerequisite: Consent of program director.

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.](#) , Visual Resources Curator, Art and Art History

[Mark B. Garrison, Ph.D.](#) , Alice P. Brown Distinguished Professor of Art History

Jessica H e., M.A. A.

- i. At least 16 hours are to be completed in upper-division studio art courses with at least one advanced level course in one or more of the following areas: Painting/Drawing, Sculpture, Photography/Digital, and Printmaking.
- ii. A minimum of 4 hours are required from at least two of the following areas: Painting/Drawing, Sculpture, Photography/Digital, and Printmaking.

B. ARTH 1408 Art History II: Renaissance to Modern is required. It is strongly recommended that Studio Art majors take ARTH 1405 and ARTH 1406 as a minimum. ARTH 1405 and ARTH 1406 are also required for students who are not majoring in Studio Art.

Admission to Major Status

Art

Prior to the declaration of an Art Major, the student must complete the following three courses with a grade of C or better:

- I. ART 1410 and 2430.
- II. One other ART course at the 1000 or 2000 level.

Art History

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

The Minor in Studio Art

- I. 24 credit hours in Studio Art, including ART 1410 and 2430. At least 16 credit hours are to be completed in upper-division studio courses.
- II. 4 credit hours in Art History.

The Minor in Art History

24 credit hours in Art History including ARTH 1407, 1408, 2 upper-division courses concentrating on art produced before 1800, and 2 upper-division courses concentrating on art produced after 1800.

The Minor in Art and Art History

This interdisciplinary program shared between the Art and Art History programs is designed to help students relate an understanding of artistic creativity to their major field of study.

Requirements:

24 credit hours in Studio Art and Art History, 12 hours of which must be in Art History and 12 hours of which must

be in Studio Art.

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-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

ART-4383 Advanced Game Art

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

Art - Photography

ART-2450 Photography I

A basic course in beginning black and white traditional film/darkroom photographic techniques and issues in

From time to time special topics courses in sculpture will be offered. The course may be taken more than one, as long as the course content changes. (Offered occasionally). Prerequisite: Consent of instructor.

ART-3476 Sculpture: Slip Casting I

Slip Casting incorporates the use of molds and porcelain clay slip to create and shape complex sculptural forms. Issues in contemporary clay sculpture are explored through guided assignments and research. May be repeated up

From time to time special topic courses not described in the Courses of Study Bulletin will be offered. The course may be taken more than once, as long as course content changes. Prerequisite: Consent of instructor.

ART-3-97 Internship

Internships are offered in a variety of professional visual art venues such as museums, galleries and other art institutions. Such work will not exceed 10 hours per week. 1-3 hours per semester, maximum of 6 semester hours. Pass/Fail only. Prerequisites: Junior or senior standing art major or minor and consent of 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 4397 are required in the Senior Year. Prerequisite: Senior standing with major in Studio Art.

ART-4396 Gallery Practicum

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

ART-4397 Senior Studio

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

ART-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.

ART-4399 Honors Thesis

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

Art History - Lower Division

ARTH-1407 Art History I: Prehistoric Through Medieval Art

This course provides an introduction to Art History through a survey of major buildings, archaeological sites, and 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

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.)

instructor, is prerequisite for taking upper-division Art History courses.

ARTH-3322 Greek Architecture

The development of Greek architecture from the Geometric period through the Hellenistic period. The development of the temple is emphasized, but private and public buildings, city planning, and religious sanctuaries are also considered. Prerequisite: Completion of three semester hours of Art History, or sophomore standing, or consent of instructor, is prerequisite for taking upper-division Art History courses.

ARTH-3325 Roman Art and Architecture

This course examines the major monuments and art styles in the city of Rome and the Roman provinces from the Republic to the Imperial period, ending with the reign of Constantine the Great. Prerequisite: Completion of three semester hours of Art History, or sophomore standing, or consent of instructor, is prerequisite for taking upper-division Art History courses.

ARTH-3330 Art and Architecture in the Late Classical World

This course will consider the art and architecture of Roman, Jewish, Christian, and early Islamic communities from the later Roman Empire to the seventh century CE. Prerequisite: Completion of three semester hours of Art History, or sophomore standing, or consent of instructor, is prerequisite for taking upper-division Art History courses.

ARTH-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. (Same as ANTH 3335.)(Offered every other year.)

ARTH-3339 Art at the Courts of Europe, C. 1330 - 1416

This course examines the extensive artistic enterprises undertaken at the papal, imperial, royal, and ducal courts of northern and central Europe in the fourteenth century. Often labeled "International Gothic," the course assesses the validity of this term for a broad selection of artworks and addresses such issues as: taste, display, and luxury; the changing role of female patrons; technical innovation and expertise; and the hierarchies and interrelations of different media. One key theme is the emergence of individual artists; identities and so particular consideration is given to patrons' changing relationships with their court artists, including Simone Martini, Master Theodoric, Claus Sluter, and the De Limbourg brothers.

ARTH-3440 Northern R h6 h6 hy; t| ourteen h cen1416

T 3een h cen ous era

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 GRST 3440.) (Offered every other year.) Prerequisite: Completion of 3 semester hours of Art History, or Sophomore standing, or consent of instructor.

ARTH-3441 Early Renaissance Art in Italy

Netherlands, from c.1500 to c.1600. Artworks in various media are considered in relation to their original contexts, from the workshops of Nuremberg and the markets of Antwerp to the French court at Fontainebleau and the Tudor court in England. Key themes, including the impact of printmaking, the challenge of the Reformation, and the influence of Italian art, are explored through the work of Durer, Grunewald, Holbein, Bruegel, and their contemporaries. Prerequisite: Completion of three semester hours of Art History, or sophomore standing, or consent of instructor, is prerequisite for taking upper-division Art History courses.

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

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 religious contexts of his artworks, and the later history of their reception. (Offered every other year). Prerequisite: Completion of three semester hours of Art History, or sophomore standing, or consent of instructor, is prerequisite for taking upper-division Art History courses.

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

ARTH-3454 Mexico City

This course examines the architectural and urban history of Mexico City, analyzing its founding by the Aztecs in the fourteenth century, its transformation into a center of Spanish colonial splendor, and its re-invention as a booming twenty-first century mega-city. The course will also consider how travelers, artists, and critics have represented this dynamic metropolis throughout its 700-year history. Prerequisite: Completion of three credit hours of Art History, or sophomore standing, or consent of instructor, is prerequisite for taking upper-division Art & Art History courses.

ARTH-3357 History of Photography

This course examines the artistic practices and the critical accounts which constitute the history of photography, from the 1830s to the present. Emphasis is given to the historical contextualization and visual analysis of key technologies, techniques, movements, styles, artists, and artworks, combined with close readings of primary and secondary texts. Prerequisite: Completion of three semester hours of Art History, or sophomore standing, or consent of instructor, is prerequisite for taking upper-division Art History courses.

ARTH-3359 Modernism in the Visual Arts

This course examines the artistic practices and the critical accounts which constitute "Modernism" in the visual arts, from the mid-nineteenth century. Emphasis is given to the historical contextualization and visual analysis of key modernist artworks, combined with close readings of primary and secondary texts. Prerequisite: Completion of three semester hours of Art History, or sophomore standing, or consent of instructor, is prerequisite for taking upper-division Art History courses.

ARTH-3360 Twentieth-Century Art: Cubism to Conceptualism (c.1900-1970)

This course introduces students to the major twentieth century artists, works, movements, and art theories in Europe and the United States, circa 1900 to 1970. While concretely investigating a diversity of art practices, the course also considers the central relationship during this period between art and critical theories of modernism and postmodernism. Prerequisite: Completion of three semester hours of Art History, or sophomore standing, or consent of instructor, is prerequisite for taking upper-division Art History courses.

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

ARTH-3362 Theories and Art of the Russian Avant-Garde

The main artistic movements and artists in Russia from 1880-1930: Symbolism, Primitivism, Futurism, Suprematism, Constructivism. Special attention will be given to the works of Vrubel, Malevich, Kandinsky, Tatlin, and El Lissitzky. Prerequisite: Completion of three semester hours of Art History, or sophomore standing, or consent of instructor, is prerequisite for taking upper-division Art History courses.

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

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

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

ARTH-3393 Museum Studies

This course will focus on specific topics in the history, nature, and operation of the art museum. Specific issues may include: connoisseurship, documentation, the impact of the museum on the development of art, the nature of arts patronage, the function and purpose of the museum, and debates over the issues of censorship and/or community responsibility. Prerequisite: Completion of three semester hours of Art History, or sophomore standing, or consent of instructor, is prerequisite for taking upper-division Art History courses.

ARTH-3395 Colloquium in Museum Studies

This course will provide an experiential overview of the artistic, educational, and commercial functions of the modern art museum in a colloquium setting. Students will have the opportunity to work in the classroom and on-site with museum professionals in San Antonio and the region. Prerequisite: Completion of three semester hours of Art History, or sophomore standing, or consent of instructor, is prerequisite for taking upper-division Art History courses.

ARTH-3-97 Internship

Internships are offered in conjunction with museums, art agencies, and art professionals in the San Antonio community and beyond, or may involve an introduction to visual resources management in the Department's Visual

(Offered occasionally). Prerequisites: consent of instructor

BIMA-3194 Seminar in Biomathematics II

This discussion format course focuses on contemporary subjects in biomathematics chosen by the instructor and students. Students will also be expected to present the results of their own research project, including relevant background from the literature. (Offered every semester) Prerequisite: BIMA 2094 and Consent of instructor

Biology

Faculty

[Gerard Beaudoin III, Ph.D.](#) , Assistant Professor

[Frank Healy, Ph.D.](#) , Associate Professor

[Michele Johnson, Ph.D.](#) , Associate Professor

[Jonathan King, Ph.D.](#) , Professor; Chair

[Kevin Livingstone, Ph.D.](#) , Associate Professor

[Kelly Lyons, Ph.D.](#) , Associate Professor

[Troy Murphy, Ph.D.](#) , Associate Professor

[Gabriela Rennebeck, Ph.D.](#) , Instructor

[David Ribble, Ph.D.](#) , Professor

[James Roberts, Ph.D.](#) , Ruth C. and Andrew G. Cowles Endowed Professor of Life Sciences

[James Shinkle, Ph.D.](#) , 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

The Major

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

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.

Ecology and Evolution.

Guidelines for Acceptance of Majors

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

1. Completion of BIOL 1311, 1111, 2312, and 2112 with grades of C- or better in each class.
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.

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

Honors in Biology

Biology majors are eligible to enroll in the Honors Program if they satisfy the University requirements that are described elsewhere in this bulletin. During their junior year, honors candidates should identify a faculty mentor and meet with the Department Chair. Completion of the Honors Program includes six hours of research courses (BIOL 4398 and 4399). Honors candidates must submit to the Department Chair a written proposal to graduate with Honors in Biology prior to starting BIOL 4398. The decision to confer or not to confer honors will be made by the departmental faculty and will be based on the quality of the written thesis and the oral presentation of that thesis.

Minor in Biology

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

- I. Completion of BIOL 1311, 1111, 2312, 2112, and 2413.

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 mothership. We will explore the tools and technologies used to characterize and analyze complex microbial communities. We will examine how microbial community composition influences such things as autism and diabetes. We will also explore the impact of perturbations to metaorganismal communities on health and well-

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 natural world. His ideas have further shaped the fields of medicine, agriculture, and social policy, and motivated great works of art and literature. This discussion-based course will explore the development of Darwin's revolutionary ideas through a survey of his life, his major written works, and the influence of his writing on modern thinking. (Offered every year).

BIOL-1322 The Ecology and Bioconservation of China

The course will focus on the fundamentals of ecology and how these are important in determining the current distribution and abundance of plants and animals in China. The course will also examine the current human impacts on native biodiversity in China and what conservation practices are in place. Through this course students will engage in a collaborative group project in which they will collect data on a particular element of biodiversity near the United International College (UIC), Zhuhai, China. (Offered Occasionally).

BIOL-2301 Advanced Placement Biology

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

BIOL-2305 The Science of Novel Environments

This course explores the scientific background supporting the literature studied in CMLT 2301, World Literature and the Environment, and CMLT 2350, Science Fiction. Two themes are emphasized: 1) ecological and physical approaches to studying the environment; and 2) the organismal biology, genetics, and molecular biology of crop plants as related to global agriculture and genetically modified organisms. This course is organized around a mixture of lectures and discussion. Hands-on/laboratory experiences are incorporated. Prerequisite or Corequisite:

information about the biotic and abiotic world. Exams and assignments are designed to assess if students have learned how to 1) analyze information across levels of ecological organization and apply what they learn to new 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

This course will survey the history of evolutionary thought, the mechanisms and patterns of evolutionary change,

treatments of Hardy-Weinberg equilibrium and the five evolutionary forces (mutation, migration, selection, drift, and non-random mating). The laboratory will use model systems to investigate these basic principles. Some experiments will require time outside of scheduled lab hours. Prerequisites: BIOL 2413, CHEM 2319, 2119

BIOL-3451 Microanatomy

Structure-function relationships are explored through an analysis of animal histological features. The microscopy-based laboratory examines tissues by means of comparisons of normal and pathological features. Student performance is measured by in-class exams, written reports, oral presentations, and a course project. Computer imaging and analysis are integrated into the fabric of the course along with several case studies. Prerequisites: Biol 2413, Chem 2319, 2119.

BIOL-3457 Neurobiology

Neurobiology focuses on the organization and function of nervous tissues and systems. The course begins with an anatomical overview, followed by an examination of neural system function at the level of signaling and synaptic transmission, sensory systems, and central system integration and control. With this foundation, the course explores brain development and plasticity. Additional hours are required to monitor experiments. (also listed as NEUR 3447). (Offered every year). Additional Prerequisites: BIOL 2413, NEUR 2310, and CHEM 2319, 2119

BIOL-3458 Microbiology

The study of microbial organisms is of tremendous importance in our world today. This course emphasizes the basic biology of bacteria, including their varied morphology, growth and nutritional requirements, cell motility, gene regulation, mechanisms of antibiotic resistance, and bacterial interactions as populations and with other organisms. Other topics covered include viruses and the Archaea. The impact of microbes on medicine, public

This course is a study of the principles of homeostasis with emphasis on major vertebrate organ systems. This course begins with a detailed molecular investigation of excitable membrane physiology (nerve and muscle) followed by a systematic investigation of endocrine, cardiovascular, respiratory, renal and gastrointestinal physiology. Integrative problem sets are assigned to address the complex interactions between organ systems. Laboratory experience involves experimentation with sophisticated physiological equipment and computerized data acquisition systems to reinforce concepts presented in lecture. Lecture examinations, laboratory reports, homework problem sets, and a research paper with presentation will be used to assess student understanding in this course. Prerequisites: Biol 2413, Chem 2319, 2119.

BIOL-3463 Developmental Biology

Through integration of information from various biology subdisciplines, course topics include the following: vertebrate body plan patterning, genetic control of the *Drosophila* body plan, early morphogenesis, cell differentiation, organogenesis, gamete formation, and fertilization. The laboratory follows development using microscopy and through special projects involving several animal systems, including avian. Course assessment includes in-class examinations, oral presentations, and group projects. Additional laboratory hours are required to monitor experiments. Prerequisites: Biol 2413, Chem 2319, 2119.

BIOL-3466 Cell Biology

Cells form the basic working units of organs and the systems that organs comprise. This course is designed to build an understanding of the fundamental processes that govern the operations of cells. Cells face challenges of maintaining boundaries, communicating with neighboring cells, transporting essential components across barrier membranes, generating chemical energy, regulating cell phenotype, and maintaining cell structure. In order to function as part of a specialized tissue or organ, cells elaborate specific subsets of organelles to dedicate themselves to performing specific functions. The course will provide the background to understand the cellular mechanisms of specialized cells, and allow one to predict the underlying cellular physiology of most tissue systems. The laboratory takes an investigative approach, introducing microscopic, molecular, and biochemical tools for studying cells. Grades for the course are to be determined by in-class examinations and laboratory reports. Additional Prerequisite: BIOL 2413, CHEM 2319, 2119; at least one Area B course or CHEM 3330

BIOL-3474 Molecular Biology

The focus of this course is the gene. The lecture portion of the course considers the major topics of gene structure, expression, duplication, and recombination. The laboratory takes an investigative approach and offers experimentation in protein electrophoresis, northern blotting, reporter gene expression, PCR-based gene cloning and sequencing, and microarray screens. Lecture and laboratory principles are reinforced through computer-based problem-solving projects using genome databanks. Grades for the course are to be determined by in-class examinations, the projects, and laboratory reports. 3 lecture hours, 3 laboratory hours a week for one semester. Prerequisites: BIOL 3458, 3466, or CHEM 3330.

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

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

[Laura M. Hunsicker-Wang, Ph.D.](#) , Associate Professor

[Corina Maeder, Ph.D.](#) , Assistant Professor

[Christopher J. Pursell, Ph.D.](#) , Professor; Chair

[Adam R. Urbach, Ph.D.](#) , Professor

[Marilyn D. Wooten, Ph.D.](#) , Instructor

Trinity's MAT program.

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

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.
- C. PHYS 1111, 1112, 1309 or 1311, 1310 or 1312.
- D. EDUC 2203, 3320, 3331.

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

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

Bachelor of Science Degree in Chemistry

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

I. Departmental requirements:

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

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

Bachelor of Science Degree in Biochemistry

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

I. Departmental requirements:

- A. 39 credits in chemistry: CHEM 1318, 1118, 2319, 2119, 2320, 2220, 3330, 2130, 3001, 3101, 3131, 3432, 3334, 3135, 3321, 3121, 4242, 4340, and one course chosen from 3335, 4346, and 4347.
- B. BIOL 1311, 1111, 2312, 2112, 2413.
- C. CHEM 3190 or BIOL 3190.
- D. PHYS 1111, 1112, 1309 or 1311, 1310 or 1312.
- E. MATH 1311, 1312.

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

Bachelor of Science Degree in Applied Chemistry

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

I. Departmental requirements:

- A. 34 credits in chemistry, including CHEM 1318, 1118, 2319, 2119, 2320, 2220, 3330, 2130, 3190, 3001, 3101, 3432, 3334, 3135, 3321, 3121, 3335.
- B. ENGR 2311, 4366, 4357 or 4358, one additional course selected from ENGR 2359, 3323, 4357, 4358, 4341.
- C. One additional advanced elective course selected from CHEM 4340, 4242, 4250 or an upper division engineering science course.
- D. MATH 1311, 1312, 2321, 3316.
- E. PHYS 1311, 1111, 1312, 1112.
- F. ECON 1311.

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

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:

Core Courses. BIOL 1311, 1111, 2312, 2112, 2413, 3474, CHEM 1318, 1118, 2319, 2119, 2320,

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

Emphasis is placed on the development of laboratory skills that are fundamental to experimental chemistry. Laboratory operations include the use of modern potentiometric and spectrophotometric methods of analysis as well as traditional gravimetric and volumetric procedures. Corequisite: CHEM 1318.

CHEM-1190 Research Techniques and Applications

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

CHEM-1300 Introduction to Chemistry

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

CHEM-1301 The Chemistry of Crime

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

Scientific Methods section of the Understanding Natural Science and Technology portion of the Common Curriculum.

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 stoichiometry and mass relationships, properties of solutions, atomic structure, molecular structure and bonding, intermolecular forces, chemical equilibrium, thermodynamics and kinetics. Lecture, 3 hours per week. Credit for the Common Curriculum will not be granted for both CHEM 1300 and CHEM 1318. Prerequisite: Passing the Chemistry Placement exam or CHEM 1300. 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-2305 Chemistry for the Visual Artist

The study of the chemical foundations of the visual arts. Topics range from a study of the historical development of technical innovations and discoveries that impacted the evolution of art, to the chemical and physical properties of artists' materials, to an introduction to conservation, and the analysis of works of art. The course is designed to include both lectures and laboratory experiments during the class period. A minimum of one half of the course meeting times will be laboratory activities. A field trip may be included.

CHEM-3101 Chemistry Seminar II

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

Prerequisite: CHEM 3001

CHEM-3121 Inorganic Chemistry Laboratory

Synthesis, spectroscopic 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 into proteinic processes. acCHEM 3131, 3321, or consent of instructor.

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

Classical Studies

Faculty

[Timothy O'Sullivan, Ph.D.](#) , Professor; Chair

[Erwin Cook, Ph.D.](#) , T. Frank Murchison Distinguished Professor of Classical Studies

[Nicolle Elise Hirschfeld, Ph.D.](#) , Professor

[Thomas E. Jenkins, Ph.D.](#) , Professor; Director of the Collaborative for Learning and Teaching

[Lawrence Kim, Ph.D.](#) , Associate Professor

[Corinne Ondine Pache, Ph.D.](#) , 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](#)

Latin

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

I. Departmental requirements:

A. Completion of the elementary and intermediate sequence of courses (13 hours) or the equivalent in Latin.

B. 26 additional hours of courses chosen from those listed below under Classics Courses in English, Greek, or Latin, including 12 upper division hours of Latin. (Courses in Greek credited towards the Latin major may also be credited towards the minor in Greek.)

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

Classical Languages

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

I. Departmental requirements:

A. Completion of the elementary and intermediate sequence of courses (25 hours) or the equivalent in both Greek and Latin.

B. 22 hours of courses chosen from those listed below under Classics Courses in English, Greek, or Latin, including 15 upper division hours of either Greek or Latin, with at least 6 hours of each.

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

The Minor

Classical Studies at Trinity is highly interdisciplinary in nature, bringing together the fields of history, literature, religion, philosophy, speech and drama, art history, archaeology, anthropology, political science, and so forth. The Department of Classical Studies offers three minors: Ancient Mediterranean Studies, Greek, and Latin. Ancient Mediterranean Studies is a minor in ancient culture and does not require a language, although language courses do

count toward this degree. In addition to the University's regulations for minors, students should complete the following Departmental requirements.

Ancient Mediterranean Studies

The Honors Pro2

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:

Completion of at least 18 hours in Greek and Latin as a minor, of which at least 9 hours must be in the upper division and at least 6 hours must be CLAS hours.

II. Departmental requirements:

The Department of Classical Studies offers an Honors Program in Classics. The requirements for Honors in

An examination of the roles of women and men in the society, religion, and culture of the ancient world. Readings will include historical, religious, medical, legal, philosophical, and literary texts. Representations of men and women in the visual arts will also be considered. (Also listed as HIST 1311.)

CLAS-1308 Daily Life in Ancient Rome

An introduction to the Roman world by way of the daily life of its inhabitants, with a focus on the urban experience. Evidence will include literary texts, inscriptions, epitaphs, graffiti, painting, sculpture, wills, letters, and the art and architecture of domestic space.

CLAS-1309 Pirates, Merchants, and Marines: Seafaring in the Ancient Mediterranean

This course explores how human relations with the sea affected the social, economic, military, political, and technological aspects of life in the ancient Mediterranean littoral. Evidence includes hulls and cargoes of shipwrecks, harborworks, inscriptions, graffiti, wall painting and mosaics, literary texts, and gravestones. A central focus will be an introduction to the methodology and technologies of archaeology, but the subject matter of this course and the nature of the discipline of maritime archaeology incorporate methodologies and substance also from the fields of Anthropology, Ethnography, Physical Sciences, Engineering, Art History, History, and Geography. (Also listed as ANTH 1309.)

CLAS-1310 Daily Life in Ancient Greece

An introduction to the ancient Greek world by way of the daily life of its inhabitants, with a focus on the urban experience. Evidence will include literary texts, inscriptions, epitaphs, painting, sculpture, and the art and architecture of domestic public space.

CLAS-1312 Greeks, Romans, and Barbarians

This course gives students an opportunity to examine the cultures and achievements of peoples labeled "barbarians" by the ancient Greeks and Romans. Students will use a broad selection of historical documents originating from the Near East, Egypt, Greece and Rome, as well as the results of archaeological research, for investigating the social structures and values of these cultures. Critical methods for interpreting ancient and modern evidence about these societies will also be discussed. (Also listed as HIST 1312.)

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

ancient scripts, Hellenistic and Greek Imperial literature, the Byzantine world. May be taken more than once, provided that topics vary. Prerequisite: Sophomore standing or consent of instructor.

CLAS-3302 Greek and Roman Epic

A study of such epics as Homer's Iliad and Odyssey and Virgil's Aeneid, read in English, with attention to changes in concepts of heroism and the self. Discussions will also focus on how the epics reflect cultural and political life. Prerequisite: Sophomore standing or consent of instructor.

CLAS-3403 Greek and Roman Drama

A study of Greek and Roman tragedies and comedies, read in English, with attention to how the plays reflect contemporary and enduring social, theatrical, and political concerns. Students will also produce, adapt, direct, and/or act in a performance of Greek or Roman drama. Prerequisite: sophomore standing or consent of instructor.

CLAS-3404 The Ancient Novel

A study of ancient prose fiction, which focuses largely on love and adventure. Discussions emphasize social, religious, and aesthetic issues raised by individual works, and special attention is paid to the ancient romance's relation to the medieval romance and the modern novel. (Offered every other year). Prerequisite: Sophomore standing or consent of instructor.

CLAS-3405 Antiquity and Modernity

Antiquity and Modernity explores the ways in which the ancient world is constructed through the lenses of modern art, literature, and scholarship, focusing especially on contemporary media. Topics to be covered include the 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-3307 The Homeric Iliad

The Homeric Iliad provides an intensive examination of a fundamental text of antiquity, including its historical, archaeological, and anthropological contexts. All readings are in English translation. Prerequisite: Sophomore standing or Consent of Instructor.

CLAS-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. Common Curriculum: This course will count towards either Visual Arts, Music, Performance, and Aesthetic Production or Literary Studies.

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

CLAS-4-90 Directed Studies

Individual work under supervisor in areas not covered by other courses. May be taken more than once, as content varies. Prerequisite: Consent of the department chair.

CLAS-4-91 Selected Topics

Special study in fields not covered by other courses. Variations in credit according to work performed, from 1-6 hours. May be taken more than once as content varies. Prerequisite: Consent of the department chair.

CLAS-4-97 Museum Internship

Participation in a program of study to be determined by the Department and the Curator of the Ancient Art collection at the San Antonio Museum of Art. The program will focus on conservation, museum administration, original research on holdings in the San Antonio Museum of Art, and object display. Each internship must be directed by a faculty member who will draw up an agreement between the sponsoring institution, the student, and the Department outlining the scope and requirements of the course. One to 3 hours per semester, maximum 6 semester hours. Elective only. Pass/Fail only. Prerequisite: Approval 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.

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 2302, 2303, or the equivalent.

GREK-3402 Attic Prose

Readings in Attic prose writers, especially Plato, Xenophon, and the orators. Prerequisite: GREK 2302, 2303, or the equivalent

GREK-3403 Greek Drama

Readings from Greek drama. Prerequisite: GREK 2302, 2303, or the equivalent.

GREK-3404 Greek Historians

Readings in Greek historians, especially Herodotus and Thucydides. Prerequisite: GREK 2302, 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 2302, 2303, or the equivalent.

GREK-3-90 Directed Studies

Individual work under supervisor in areas not covered by other courses. May be taken more than once, as content varies. Prerequisites: GREK 2302, 2303, or the equivalent, and consent of the department chair.

GREK-4-90 Directed Studies

Individual work under supervisor in areas not covered by other courses. May be taken more than once, as content varies. Prerequisites: GREK 2302, 2303, or the equivalent, and consent of the department chair.

GREK-4-91 Selected Topics

Special study in fields not covered by other courses. Variation in credit according to work performed, from 1-6 hours. May be taken more than once, as content varies. Prerequisites: GREK 2302, 2303, or the equivalent, and consent of the department chair.

Latin - Lower Division

LATN-1301 Elementary Latin I

3 class hours a week for 1 semester.

LATN-1302 Elementary Latin II

3 class hours a week for 1 semester. Spring. Prerequisite: LATN 1301 or the equivalent.

LATN-2301 Intermediate Latin I

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

LATN-2402 Intermediate Latin II

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

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 2402 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 2402 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 2402 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 2402 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 2402 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 2402 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 2402 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 2402 or the equivalent

LATN-3409 The Roman Novel

An intensive investigation of Petronius' *Satyricon* and Apuleius' *The Golden Ass*, with special attention paid to issues of genre, religion, gender, and influence. Prerequisite: LATN 2402 or the equivalent

Comparative Literature

Faculty

[Erwin Cook, Ph.D.](#) , T. Frank Murchison Distinguished Professor of Classical Studies

[Ruben R. Dupertuis, Ph.D.](#) , Associate Professor, Religion

[Stephen Lee Field, Ph.D.](#) , J. K. and Ingrid Lee Endowed Professor of Chinese Language and Literature, Modern Languages and Literatures

[Jinli He, Ph.D.](#) , Associate Professor, Modern Languages and Literatures

[Thomas E. Jenkins, Ph.D.](#) , Professor, Classical Studies

[Timothy O'Sullivan, Ph.D.](#) , Professor, Classical Studies

[Corinne Ondine Pache, Ph.D.](#) , Professor, Classical Studies

[Michael Soto, Ph.D.](#) , Professor, English

[Heather Sullivan, Ph.D.](#) , Professor, Modern Languages and Literatures; Director

[Michael Ward, Ph.D.](#) , Associate Professor, Modern Languages and Literatures

Overview

Comparative Literature is an interdisciplinary program designed for students who want to pursue the study of literature unrestricted by national boundaries and conventional demarcations of culture. Comparative Literature recognizes that all literary texts exist within the framework of world cultures and emphasizes the importance of bringing a multicultural perspective to the understanding of literary traditions. It includes reading literature in the original language as well as in translation.

Completion of this program will be indicated on the student's transcript with the notation Minor in Comparative Literature.

Students interested in a Comparative Literature minor should contact the Chair of the Committee, who will assign a faculty adviser to the student.

Students considering going on to graduate work in comparative literature are strongly encouraged to start studying one or more foreign languages (classical and/or modern) as soon as possible and to continue throughout their undergraduate career.

Requirements

The Minor

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

- I. **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.**

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	

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 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 (REQUIRED)

CMLT 2350 Science Fiction and the Environment

CMLT 3409 Epic Journeys (also listed as CLAS 3409)

ENGL 2305 World Literature

ENGL 3429 Jewish Literature

ENGL 3359 Medieval Literature

ENGL 3375 Postmodern Literature

ENGL 3385	The Continental Novel
ENGL 4427	Literature of the Holocaust
FILM 2301	International Cinema (also listed as ARTH 2301, COMM 2301, and ML&L 2301)
GRST 3311	Fairy Tales
ML&L 2301	International Cinema (also listed as ARTH 2301, COMM 2301, and FILM 2301)
PHIL 2425	Existentialism
PHIL 3460	Philosophy of Literature
PLSI 1332	Film, Literature, and Politics of the Third World
THTR 3335	Greek and Roman Drama
THTR 3336	Modern Drama
THTR 3337	Contemporary Drama

Courses

CMLT-1300 Introduction to Comparative Literature

Examines with a cross-cultural perspective texts from around the world. The course provides an introduction to the interdisciplinary field of comparative literatures.

CMLT-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.)

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

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 3309.) Prerequisite: Sophomore standing or consent of instructor. Common Curriculum: This course will count towards either Visual Arts, Music, Performance, and Aesthetic Production or Literary Studies.

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

Faculty

[William G. Christ, Ph.D.](#) , Professor

[Aaron Delwiche, Ph.D.](#) , Professor

Sarah E. Erickson, Ph.D. , Assistant Professor

[Jennifer Jacobs Henderson, Ph.D.](#) , Professor; Chair

[Robert Huesca, Ph.D.](#) , Professor

[Patrick Keating, Ph.D.](#) , Associate Professor

[Zhaoxi Liu, Ph.D.](#) , Assistant Professor

[Melissa McMullen](#) , Assistant Professor

[Camille Reyes, Ph.D.](#) , Assistant Professor

Requirements

[Major in Communication](#)

- c. Three (3) credit hours in media management (COMM 3360, 3361, 3362, 3363, 3364)
3. Nine (9) credit hours in electives in the Department of Communication
4. Three (3) credit hours in the Communication Capstone Seminar (COMM 4395).

COMM 3322	International Communication
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 3340	Media Writing
COMM 3341	Audio Communication
COMM 3342	Visual Communication
COMM 3343	Print Communication
COMM 3344	Interactive Multimedia Communication
COMM 3-45	Media Communication Workshop
COMM 4350	Advanced Producing

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 Editing

Positions for students in one of the student-managed media organizations that provide news and entertainment services and programming for the campus and San Antonio area 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-1131 Apprenticeship in Communication Center Media: TigerTV production

Positions for students in one of the student-managed media organizations that provide news and entertainment services and programming for the campus and San Antonio area 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-1140 Apprenticeship in Communication Center Media: Webpage Production

Positions for students in one of the student-managed media organizations that provide news and entertainment services and programming for the campus and San Antonio area 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-1150 Apprenticeship in Communication Center Media: Public Relations

Positions for students in one of the student-managed media organizations that provide news and entertainment services and programming for the campus and San Antonio area 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-1160 Apprenticeship in Communication Center Media: Underwriting and Development

Positions for students in one of the student-managed media organizations that provide news and entertainment services and programming for the campus and San Antonio area 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-1170 Apprenticeship in Communication Center Media: Media Management

Positions for students in one of the student-managed media organizations that provide news and entertainment services and programming for the campus and San Antonio area 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-1194 Internship Experience

COMM-3321 Arts Criticism

Integration and understanding of the role of the artist, the audience, and the critic in relation to the arts.

COMM-3322 International Communication

Studies communication as an essential component of international organizations and relations. Surveys major topics in international communication and international decision-making, comparative media systems and national philosophies, and Third World issues and policy development. Prerequisite: COMM 1301 or permission of instructor. (Also listed as HCOM 3374.)

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 journalism, and cultural affairs reporting. May be repeated when topics vary. Will be offered for either 3 or 4 semester hours. Prerequisite: COMM 2302 or consent of instructor.

COMM-3-41 Audio Communication

Understanding and using audio through conceptualizing, gathering information, writing, editing, and producing aural communication. Classes may stress one or more genres, formats, or themes. Past topics have addressed

community radio and alternative communication. May be repeated when topics vary. Will be offered for either 3 or 4 semester hours. Prerequisite: COMM 2302 or consent of instructor

COMM-3-42 Visual Communication

Understanding and using visual communication techniques through conceptualizing, creating, and editing visual media productions. Classes may stress one or more genres, formats, or themes. Past topics have addressed narrative fictional video production, documentary, and theory and practice of montage. May be repeated when topics vary. Will be offered for either 3 or 4 semester hours. Prerequisite: COMM 2302 or consent of instructor.

COMM-3-43 Print Communication

Understanding and using print communication techniques and graphics through conceptualizing, gathering information, writing, editing, and publishing. Classes may stress one or more genres, formats, or themes. Past topics

nationalism, capitalism/consumerism, violence, and civic life. Ethical implications and the impact of social will also

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	Organizational Communication (also listed as HCOM 3362)
HCOM 1333	Public Speaking
HCOM 3362	Organizational Communication (also listed as BUSN 3311)
HCOM 4397*	Human Communication Internship

* As approved by minor adviser.

Computer Science

Faculty

[Seth Fogarty, Ph.D.](#) , Assistant Professor

[Albert Xin Jiang, Ph.D.](#) , Assistant Professor

[Matthew Hibbs, Ph.D.](#) , Associate Professor

[Thomas Hicks, Ed.D.](#) , Associate Professor

[Mark C. Lewis, Ph.D.](#) , Professor

[Berna Massingill, Ph.D.](#) , Associate Professor

[Paul Myers, Ph.D.](#) , Professor; Chair

[Yu Zhang, Ph.D.](#) , Associate Professor

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](#)
- [Minor in Management Information Systems](#)

- Senior Thesis

- 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.

When a thesis receives the honors designation, this designation is so noted on the student's transcript and announced at graduation.

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 1321. tu en for reasoni ata delaO hows r f MATH 13

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 complexity, asymptotic notation, sorting algorithms, graph algorithms, and data structures.

CSCI-3362 Effective Programming Techniques

Effective strategies for programming in contemporary languages, including material on design patterns and other

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, context-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.

East Asian Studies at Trinity

Faculty

Angela Breidenstein, Ph.D. , Professor, Education

Stephen Lee Field, Ph.D.

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 Philosophies 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	Asian Religions

II. The concentration in Chinese studies:

A. Completion of 21 credit hours of upper division Chinese language and literature courses taught in Chinese.

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	Readings in Modern Chinese Literature
CHIN 4322	Readings in Contemporary Chinese Cinema
CHIN 4351	Classical Chinese
CHIN 4390	Reading and Conference

CHIN 4391 Selected Topics

LAC 3114 Zhongguo Gudai Sixiang (Classical Chinese Thought)

or the equivalent study abroad coursework in Chinese.

B. Completion of 9 credit hours of upper division electives. At least one course must be taken from each of the following categories. Courses not focused solely on China must contain at least one-third of their content on the subject of China.

1. Art History, History, Political Science, and Religion

ARTH 3466 Contemporary Chinese Art (also listed as CHIN 3466)

CHIN 3320 The Rise of Modern China (also listed as HIST 3320)

CHIN 3433 Chinese Religions (also listed as RELI 3433)

CHIN 3343 Chinese Foreign Policy (also listed as PLSI 3343)

CHIN 3366 Governance and Public Policy in Contemporary China (also listed as PLSI 3366 and URBS 3366)

CHIN 3466 Contemporary Chinese Art (also listed as ARTH 3466)

HIST 3320 The Rise of Modern China (also listed as CHIN 3320)

HIST 3324 History of Korea

HIST 4420 Seminar in Asian History

PLSI 3341 East Asian Security

PLSI 3343 Chinese Foreign Policy (also listed as CHIN 3343)

PLSI 3366 Governance and Public Policy in Contemporary China (also listed as CHIN 3366 and URBS 3366)

RELI 3413 Religion and Science in Asia

RELI 3432 Buddhist Ecology and URBS 3366

RELI 3433 Chinese Religions (also listed as CHIN 3433)

2. Business and Economics

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

B. Civilization and History

CHIN 2311	Chinese Civilization
HIST 1320	History of China
HIST 1324	Modern East Asia

C. Philosophy and Religion

RELI 1330	Asian Religions
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II. The concentration in an East Asian language:

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

BUSN 4364	Internationalizing Intellectual Property (also listed as CHIN 4364)
CHIN 3320	The Rise of Modern China (also listed as HIST 3320)
CHIN 3330	Global Business Culture (also listed as INTB 3330)
CHIN 3433	Chinese Religions: Unity and Diversity (also listed as RELI 3433)
CHIN 3343	Chinese Foreign Policy (also listed as PLSI 3343)
CHIN 3363	International Business Research (also listed as INTB 3363)
CHIN 3376	Contemporary Chinese Art (also listed as ARTH 3376)
CHIN 4362	International Branding (also listed as INTB 4362)
CHIN 4364	Internationalizing Intellectual Property (also listed as BUSN 4364)
HIST 3320	The Rise of Modern China (also listed as CHIN 3320)
HIST 3324	History of Korea
INTB 3330	Global Business Culture (also listed as CHIN 3330)
INTB 3363	International Business Research (also listed as CHIN 3363)
INTB 3396	Internship in International Business (with adviser approval)
INTB 4362	International Branding (also listed as CHIN 4362)
PLSI 3331	Political Economy of the U.S., Europe, and Japan
PLSI 3341	East Asian Security

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 popular culture.

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.](#) , Associate Professor

[Gina Pieters, Ph.D.](#) , Assistant 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.](#) , Professor of Health Care Administration

[Ben Vaughan](#) , Associate Professor of the Practice of Economics

Requirements

- [Major in Economics](#)
- [Minor in Economics](#)
- [Honors in Economics](#)

The Major

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

I. Departmental requirements:

Economics majors may choose among six separate curricula:

A. General Economics

Students desiring to major in Economics without selecting a concentration must complete 30 credit hours in Economics, including ECON 1311, 1312, 2301, 3325, and 3326. (MATH 1320 or 3355* may be substituted for ECON 2301.)

Recommended: MATH 1311.

B. Concentration in Theoretical Economics

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 designed for students planning to enter graduate schools of business administration. In addition to a solid grounding in Economics, this concentration provides an introduction to many of the basic business subjects that students will encounter in MBA programs.

Departmental Requirements:

1. 30 credit hours in Economics, including:

at uECON 1311, 1312, 2301, 3325, and 3326 (MATH 1320 or 3335* may be substituted for ECON 2301);

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, MIS 2301, 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

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

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

The determinants of market structure and the effects of market structure on firm and industry behavior. The relationship between industry characteristics and desirable economic performance. Frequent applications to particular American industries. Prerequisite: ECON 1311

ECON-3336 Antitrust Economics

The role of antitrust policy in the American economy. Examines the major antitrust statutes and court opinions of the United States as they relate to market structures and business practices. Landmark antitrust cases are discussed and analyzed with economic theory in an effort to gain insight into the implications of business practices encompassed by the antitrust laws. The penalties and remedies for antitrust violations will also be discussed. Prerequisite: ECON 1311

ECON-3338 Government Regulation of Business

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

ECON-3339 Economic Analysis of Law

Economic analysis of such basic legal concepts as property, contracts, torts and crime. Economic theory is also applied to the legal system itself, including an examination of such matters as law enforcement, civil procedure, and the effectiveness of legal sanctions. Prerequisite: ECON 3325

ECON-3340 Economic Growth and Development

An inquiry into the desirability, the methods of measurement, alternative strategies for, and the impact of individuals and groups within society on economic development. A survey of theories of economic development. Case studies in comparative perspective. Prerequisites: ECON 1311 and 1312.

ECON-3341 Economic Development of Mexico

Economic aspects of Spanish colonialism; the transition to national independence; difficulties associated with the period through 1876; industrialization and development through the Revolution; the takeoff of the modern economy after 1940; contemporary issues. Prerequisite: ECON 1311 and 1312.

ECON-3342 Latin American Economic History

A selective survey of the principal currents of economic growth and change in Latin America since the sixteenth century. Special attention given to the uneven formation of market economies and to problems associated with colonialism and neo-colonialism; with international financial crises and adjustment; and with ideologically diverse

models of development. (Also listed as HIST 3348.) Prerequisites: ECON 1311 and 1312.

ECON-3343 Slavery and the Atlantic Economy

Interdisciplinary analysis of the Atlantic market joining Europe, Africa, and the Americas from the sixteenth through the nineteenth centuries, with particular emphasis upon slavery, the slave trade, and the development of the "plantation complex." Makes explicit use of economic theory to explain historical change. (Also listed as HIST 3384.) Prerequisites: ECON 1311 and HIST 1354 or HIST 1380 or consent of instructor.

ECON-3344 Economic and Business History of the United States to 1865

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

ECON-3345 Economic and Business History of the United States Since 1865

A study of the development of American business and the economy from the U.S. Civil War to the present. (Also listed as BUSN 3345 and HIST 3361.) Prerequisites: ECON 1311 and 3 hours of U.S. history or consent of instructor.

ECON-3346 La economía española y la Unión Europea (The Spanish Economy and the European Union)

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

ECON-3347 International Trade

A study of the economic theory of international trade and the development of the practices of commercial policy. Emphasis is on the economic analysis of a variety of protectionist policies, the international institutions involved in trade and protectionist issues, the importance of trade for development, issues in international capital flows, and multinational corporations. Practice is provided in reading and understanding published sources of data and analysis. Prerequisite: ECON 1312 and 3325

ECON-3348 International Monetary Systems

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

ECON-3351 Development of Economic Thought

A survey of the "Great Books" of Economics from Adam Smith's *Wealth of Nations* to John Maynard Keynes's *General Theory*. The course is intended to acquaint students with the ideas of the creators of economic theory in an effort to understand the intellectual forces that have shaped modern economic thought. Classical, Marxian, Neo-Classical, Institutional and Keynesian theory will be studied and analyzed against the backdrop of the times in which the ideas were developed. Prerequisite: ECON 1311 and 1312

ECON-3356 Financial Institutions and Markets

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

ECON-3361 International Finance

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

ECON-3362 The American Corporation

This course acquaints the student with organization theory, corporate decision-making, and the role of the corporation in society. Contemporary corporate issues are discussed and analyzed through readings and the application of fundamental principles to case studies. (Also listed as BUSN 3313) Prerequisite: ECON 1311

ECON-3365 Behavioral and Experimental Economics

Uses experimental findings to test existing theories and motivate the development of new ones. Students participate in both the design and running of experiments. Analyzes the impact of behavioral theories on such topics as trust, reciprocity, time discounting, portfolio choice, and altruism. Behavioral Economics incorporates psychological findings into both traditional economic and game theoretic models of decision making. Experimental Economics studies the design and methodology of economic experiments. Prerequisite: ECON 3325 or permission

of the instructor.

ECON-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 URBS 3367, CHIN 3367, and BUSN 3367).

ECON-3-71 Internship

Internships are arranged with businesses, for-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 submit a report on the internship. This is a minimum of 100 hours of work. This is a student

ECON-4349 Seminar in Economic Issues

Use of economic analysis and reasoning to better understand current economic issues. Topics vary. Representative selection includes economics of the stock market, Social Security, welfare reform, and topics selected by students from articles in the Journal of Economic Perspectives. Emphasis is on oral and written analysis of economic issues, class discussion and debate, and reading of articles by leading economists from sources other than textbooks. Focus is on the questions being asked by economists and the approaches taken to address these questions - that is, what economists do and how they do it. Prerequisites: Six hours of upper-division Economics and Junior standing.

ECON-4365 Game Theory

The science of strategic thinking. A study of the strategic aspects of situations in which a person's choice depend critically on what other people may choose. Topics include static games with complete information, dynamic games, games with uncertainty and games with incomplete information. Emphasizes the application of game theoretic tools to a broad array of economic issues. Prerequisites: ECON 3325, MATH 1312, and ECON 2320 (or equivalent) or consent of instructor

ECON-4367 Advanced Microeconomic Theory

This course acquaints the student with classical microeconomic theory and enables him or her to construct mathematical economic models. Topics include: consumer theory; theory of the firm; multimarket equilibrium; decision-making under certainty; optimization over time; theoretical and applied welfare economics. Prerequisite: ECON 3325 and MATH 2321

ECON-4370 Econometrics

The development of statistical techniques of measurement and inference especially suited to empirical economics. The course covers linear regression, maximum likelihood estimation, and significance tests. The main emphasis is on the proper formulation and testing of hypotheses. Prerequisites: ECON 1312, ECON 3325; ECON 2320 (or equivalent), and MATH 1312 or permission of instructor.

ECON-4397 Seminar in Economics

Study of theoretical and empirical work in economics from scholarly books and periodicals. Independent research and group discussion. May be repeated when topics differ. Topic A: Microeconomics Topic B: Macroeconomics Topic C: Labor Economics Topic D: Selected topics Prerequisite: Permission of instructor.

ECON-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.

Education

Faculty

[Shari Albright, Ph.D.](#) , Norine R. Murchison Professor of the Practice of Education; Chair

[Laura Van Zandt Allen, Ph.D.](#) , Professor

[Ellen Barnett, Ph.D.](#) , Assistant Professor

[Angela Breidenstein, Ph.D.](#) , Professor

[Courtney Crim, Ph.D.](#) , Associate Professor

[Rocio Delgado, Ph.D.](#) , Associate Professor

[Patricia Norman, Ph.D.](#) , Associate Professor

[Laurie McGarry Klose, Ph.D.](#) , Associate Professor

[Heather Haynes Smith, Ph.D.](#) , Assistant Professor

Overview

Overview

The Department of Education offers select undergraduate coursework, including a minor in Education, that allows students to explore teaching as a profession and fulfills the prerequisites for admission to the Master of Arts in

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 Psychology

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.

Requirements

- [Minor in Teaching](#)
- [Admission to the Master of Arts in Teaching \(M.A.T\) Program](#)
- [Admission to the Master of Education in School Leadership](#)
- [Master of Education In School Leadership Requirements](#)

- [Admission to the Master of Arts in School Psychology](#)
- [Master of Arts in School Psychology Requirements](#)
- [Application for Certification](#)
- [Certification for Elementary Education](#)
- [Certification for Secondary Education](#)
- [Certification for All-level Music](#)

EDUC 3301	Field Seminar in Elementary Literacy EDUCATION 161
EDUC 3341	Teaching Science in Elementary School
EDUC 3351	Mathematics in Elementary School

B. Secondary Pathway: (8 required hours)

EDUC 2202	Practicum: Secondary Teaching Exploration
EDUC 3302	Field Seminar in Secondary

Plus 3 additional hours of electives from among the following courses:

EDUC 4102	Secondary Advanced Field Seminar (up to 3 hours of credit allowed)
EDUC 1310	Seminar on Urban Education Policy and Practice
EDUC 4338	Teaching Reading in Secondary Schools
EDUC 3342	Teaching Science and Mathematics in Secondary Schools
HIST 3388	Methods of Instruction in History

Other ESL or Special Education courses not taken for the concentration (above)

Requirements

Admission to the Master of Arts in Teaching (M.A.T.) Program

Students apply to the M.A.T. program in mid-January of their senior year (by the published deadline) or as post-baccalaureate candidates if they have an earned bachelor's degree or higher. Candidates submit a single, combined electronic application for admission to both the M.A.T. program and Trinity University Graduate Studies. The online application is available at <https://www.applyweb.com/apply/trinity/>.

In addition to completing the online application, other items required for consideration for entry to the program include:

- I. Required Education courses for the elementary program are: EDUC 1331, 3320, 2201, 3301, 3341, 3351, and CSCI 1300-7 or equivalent. Required Education courses for the secondary program are: EDUC 1331, 3320, 2202, 3302, and CSCI 1300-7 or equivalent. Required Education courses for the All-Level Music program are: EDUC 1331, 3320, 2204, 2205, and CSCI 1300-7 or equivalent. Please note that students may apply without all prerequisite coursework completed; however, all requirements must be completed by

July 1st before the M.A.T. program begins.

II. Official transcripts documenting a cumulative grade-point average of 3.0 or higher overall, and/or on the

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 bachelor's degree from an accredited college or university. An undergraduate major of psychology or

Note: An asterisk (*) indicates a course that fulfills a common curriculum requirement.

I. Education Course of Study

A. EDUC 1110 and 1210 (recommended).

B. EDUC 1331*, 2201, 2202, 3301, 3320*, 3341, and 3351 are required. EDUC 3302 is recommended.

C. CSCI 1300-7* or equivalency is required.

II. Recommended Courses: In preparation for certification as an EC-6 Generalist, students are strongly encouraged to take as many of the courses listed below as possible.

SOCI 1301*	Introduction to Sociology
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SOCI 1316*	Places and Regions and Global Context (also listed as URBS 1316)
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Certification for Secondary Education

Students seeking certification to teach at the secondary grades (grades 7-12) in Texas should complete the following undergraduate requirements: Note: An asterisk (*) indicates a course that fulfills a common curriculum requirement.

I. Education Course of Study

- A. Teaching Core Courses (required): EDUC 1331 and EDUC 3320.
- B. Secondary Teaching Pathway Courses (required): EDUC 2202 and 3302.
- C. echnology 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, SOCI 3331, LING 1300, and PSYC 2330 are recommended but not required.
- **French Early Childhood Grade 12 Certification**
 - **French Major**
 - **All language candidates must pass an oral proficiency exam given by the Education Department for program admission.**
- **German Early Childhood Grade 12 Certification**
 - **German Major**, including GERM 3305*
 - **All language candidates must pass an oral proficiency exam given by the Education Department for program admission.**
- **History 7-12 Certification**
 - **History Major**, including HIST 3376 and 3388, plus 1 course from U.S. History, 1 course from European History, and at least 1 course each from 3 of the following 4 fields: African History, Asian History, Latin American History, and Middle East History
 - URBS 1316/SOCI 1316 (recommended)
- **Journalism 7-12 Certification**
 - **Communication Major**, including COMM 3340; two (2) of the following courses: COMM 3341, 3342, 3343, 3344; and two (2) of the following: COMM 3321*, 3322, 3326, 3328, 3362, 3364

Latin Early Childhood Grade 12 Certification

equal 24 hours total in Biology, plus EDUC 3342

- **Mathematics 7-12 Certification**

- **Mathematics Major**, including MATH 3334, plus EDUC 3342 (MATH 3341, 3343, and 3355 are strongly recommended, but not required)

- **Physical Science 6-12 Certification (Student is certified to teach Chemistry and Physics)**

Select from one of the following options:

Chemistry Major

Plus Physics [PHYS 1111*, 1309*, 1112*, 1310*, 3323 (prerequisite waived)]

Plus Geoscience [GEOS 1304* or 1407*; and 2401* (lab prerequisite required)]

Plus EDUC 3342

Physics Major

Plus Chemistry (CHEM 1118*, 1318*, 2119*, 2319*; 2220, and 2320)

Plus Geoscience [GEOS 1304* or 1407*; and 2401* (lab prerequisite required)]

Plus EDUC 3342

Geoscience Major

Plus Chemistry (CHEM 1118*, 1318*, 2119*, 2319*; 2220, and 2320)

Plus Physics [PHYS 1111*, 1309*, 1112*, 1310*, 3323 (prerequisite waived)]

Plus EDUC 3342

- **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:

- **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

a minimum of 72 credit hours in music. Students may choose from a choral or an instrumental option.

- *Choral emphasis*: 1000 (7 semesters), 1203, 1103, 1113, 1204, 1104, 1114, 2203, 2103, 2113, 2204, 2104, 2114, 3121, 3223, 3225, 3341, 3342, 4301; 18 credits of applied music in one area (14 of which must be at the level of 22– or above); four (4) credits of applied music in a secondary area; 8 credits of large ensemble, 1161, 3162, 4321, 4361, 4363; and 1 credit of music electives.
- *Instrumental emphasis*: 1000 (7 semesters), 1203, 1103, 1113, 1204, 1104, 1114, 2203, 2103, 2113, 2204, 2104, 2114, 3121, 3223, 3224, 3341, 3342, 4301; 18 credits of applied music in one area (14 of which must be at the level of 22– or above); 1122 (or 1 credit of applied music in a secondary area); 8 credits of large ensemble, 1161, 2161, 2162, 2163, 2164, 4264, 4361, 4362; and 2 credits of music electives.
- *Elementary emphasis*: 1000 (7 semesters), 1203, 1103, 1113, 1204, 1104, 1114, 2203, 2103, 2113, 2204, 2104, 2114, 3121, 3223, 3224 or 3225, 3341, 3342, 4301, 18 credits of applied music in one area (14 of which must be at the level of 22– or above) and 4 credits of applied music in a

secondary area, 8 credits of large ensemble, 1161, 3162, 4321, 4361, 4364, and 1 credit of music electives.

Supplemental Certification for English as a Second Language (ESL) and Special Education

Our program offers courses leading to supplemental certificates in special education and/or ESL..

I. Special Education

Students may add a supplemental certificate in Special Education by completing the following undergraduate courses (EDUC 1331*, 3330, and 3332/3335) and specialized courses during the graduate 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

Master of Arts in School Psychology

Trinity University offers a 60-credit hour specialist program in school psychology that is approved by the National Association of School Psychologists (NASP). The Master of Arts in School Psychology is awarded after completing 60 credit hours including two years of full-time study and a third-year internship.

The third-year internship (6 credit hours) consists of a minimum of 1200 clock-hour placement in a school setting. This full-time experience occurs over two consecutive semesters (Fall and Spring) and provides interns with opportunities for supervised work in assessment, counseling, consultation, and program evaluation.

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 taken more than once provided project differs. Prerequisite: Departmental Chair approval required.

EDUC-1310 Seminar in Urban Education Policy and Practice

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 pre-kindergarten or elementary music classroom.

EDUC-2205 Practicum: Music 5-12

An introduction to music in the middle schools and high schools in conjunction with a field placement in a middle or high school band, orchestra, or choral music program.

EDUC-3301 Field Seminar in Elementary Literacy

EDUC-3320 Child and Adolescent Development

The cognitive, emotional, and social factors influencing children and adolescents in contemporary society will be explored. Emphasis will be placed on practical application of current theories in human development and learning related to the family, school, and peer groups. (Offered Every Semester)

EDUC-3321 Schooling in America

A study of the American school and its role in contemporary society. Includes an analysis of the literature related to effective schools and successful teaching and learning practices.

EDUC-3330 Teaching Students With Learning and Behavior Problems

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

research, and the on-going development of a portfolio. Students will have the opportunity to work closely with a faculty member and peers to organize, integrate, and extend their knowledge of schooling in the United States. This course fulfills the Senior Experience requirement of the University's Common Curriculum. Prerequisite: Senior Standing.

EDUC-4102 Secondary Advanced Field Seminar The size ve crement ofrent s Cuon Curricu Pre itxp

The course provides students who have completed the Secondary Field Seminar (EDUC 3302) the opportunity for additional school-based experience via a placement with a secondary teacher. This course can be repeated for up 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 Leveling. (Offered every semester)

EDUC-5336 Clinical Practice in Special Education

Exploration of programming techniques appropriate for students with learning problems. Topics include interpretation of assessment as it relates to learning styles, individualization of instruction, classroom management, and interaction with teachers, administrators, and aides. On-site observation and participation. Fall semester.

EDUC-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

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-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-5340 Advanced Seminar in Special Populations

This course supplements M.A.T. interns' clinical practice for those pursuing supplemental certificates in special education and/or English as a second language (ESL). The course provides an opportunity for students to experience the continuum of placements in which special populations receive services.

EDUC-5342 Diagnosis and Remediation in Reading

Methods of diagnosing and remediation of reading disabilities in individual pupils. Remedial reading is considered from the viewpoint of prevention as well as correction.

EDUC-5-45 Independent Study

Independent study in selected areas. One to six semester hours. Approval of advisor and instructor.

EDUC-5346 Music Pedagogics

A field-based course dealing with music education in the elementary, middle and high schools.

EDUC-5647 Clinical Practice in Music

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 study of the content taught in public schools focusing on Early Childhood - Grade 6, Grades 4-8, or Grades 8-12.

EDUC-5351 Teaching Inquiry and Practice

An analysis of the research on teaching and models of teaching, contingency theories of teaching, the role of the teacher as decision maker and the nature of reflective practice. Emphasis is given to how scientific knowledge and context-specific knowledge can be used to inform professional judgment and to create knowledge in use.

EDUC-5352 School Leadership, Supervision and Evaluation

A study of basic concepts, techniques and practices for understanding school leadership as it affects teacher professionalism and school improvement. Emphasis is given to the teacher's leadership role in collegial and clinical supervision, mentoring, staff development and evaluation. Concepts and practices are examined from political and nonrational perspectives of how schools as organizations work.

EDUC-5360 Pedagogics: Early Childhood-Grade 6

The study and application to teaching and learning of elementary school curriculum and methodology. Experiences in the university and the public schools are used to interpret, apply, and evaluate elementary school teaching and learning practices. Planning and teaching through various modalities and techniques is researched and developed to enhance individual teaching and learning styles.

EDUC-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 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 in the form of a .

school administration, and conduct field studies.

ELED-6390 School Law and Policy Analysis

This class focuses on the laws, rules, structures and processes that define education in Texas and how to change them through analysis and argumentation. Students will: 1) explain the constitutional, statutory and organizational framework of the Texas public education system; 2) apply their understanding of school law in response to common demands made on school administrators by parents, students, school employees and other stakeholders; 3) analyze and develop arguments for changes in education policies and administrative structures, processes and programs; and 4) research school related court cases, statutes and administrative policies.

ELED-6391 Advanced Problems in Administration

Problem solving and inductive inquiry themed to live and persistent problems of administrative practice through case study and simulation.

ELED-6392 Supervision and Evaluation of Teaching

Emphasis is on supervision as a means to improve teaching by promoting reflection, action research, and enhanced staff development. Students review the research on teaching and examine philosophical and moral issues. Clinical supervision, portfolio development, and other evaluation techniques are developed and practiced.

ELED-6393 Community Building and Civic Engagement

It is no longer sufficient for school leaders to solely focus on the operations of their school. They must interact with and form partnerships with the varying constituencies that impact their schools across the community, region and nation. This course will focus on the examination of these constituencies and will analyze successful school programs across the nation and beyond that leverage community and civic partnerships to add value to the educational experience for students and the success of the school in general.

ELED-6693 Clinical Practice - Advanced Internship

Field work in school administration under the direction and supervision of both a public school administrator and a university staff member.

ELED-6394 Systems Design & Implementation

This course is designed to introduce a variety of school design and redesign structures and processes to equip prospective principals 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

A consideration of the major contribution of scientific research to an understanding of human development and learning. Emphasis on the biological, social, cultural, and psychological factors determining individual differences in children and adolescents. The major learning theories are studied in relation to their implications for teaching, and counseling and assessment.

EPSY-5181 Human Development and Learning Lab

Practice in the application of human development and learning theories. The lab project addresses a selected case study's theoretical development stage and the construction of an intervention from learning theories. Monitoring, graphing, and development conclusions will be conducted throughout the semester. Must be taken in conjunction with EDUC 5381.

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-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-6380 Consultation Theory and Methods

The types of school and mental health consultation are presented. The role of the consultant at all phases of the consultation process is studied. Specific techniques for case, program, and consultee-centered consultation are discussed and simulated.

EPSY-6381 Research Methods II: Design and Application

The second course in the sequence focuses on issues related to research methods for applied settings and the practice of making empirically-supported decisions related to underlying psychological and educational research. Topics addressed include: 1) the philosophy of science underlying research; 2) ethical issues in research, 3)

Presentation of methods and theory in the developmental/psychoeducational assessment of infants and young children. Mastery of skills to administer and interpret psychological tests to identify cognitive, language, motor, adaptive, and socioemotional problems in the birth-5 age group (with an emphasis on children ages 3-5). Community/family/school collaboration and educational/behavioral interventions for young children will be discussed. Must be taken in conjunction with EDUC 6185.

English

Faculty

Victoria Aarons, Ph.D.

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. Upper-division requirements:

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

1. At least two (2) courses covering literary periods before 1800;
Courses pre-1800 include: 3358, 3359, 3362, 3363, 3364, 3370, 3456, 3457, 4302, 4304, 4401, 4403, 4420, 4421, 4460.
2. At least two (2) courses covering literary periods after 1800; and
Courses post-1800 include: 3367, 3372, 3375, 3381, 3383, 3427, 3429, 3466, 3471, 3480, 3484, 4322, 4423, 4427.
3. At least two (2) additional upper-level elective courses, with a maximum of one (1) course in creative writing.

II. University requirements:

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

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 341GL ovanced PIn-Fiction 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.
- V. Declare his or her intention to be considered for Honors by submitting a written application to the chair of the department, along with a formal recommendation from the thesis adviser.

Submit a completed draft of the thesis to the Chair of the Honors. ea fo

analysis, and judgment.

ENGL-1303 Intermediate Writing

Students who have exempted from ENGL 1302 with a score of 4 or 5 on the Language and Composition AP

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, thematic, 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.

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,

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

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 one 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

ENGL-3457 Medieval Christian Mysticism

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-4421 Studies in Restoration and Eighteenth-Century British Literature

A study of selected topics in the literature and culture of Restoration and eighteenth-century Britain in the context of current critical theory and debate. May be repeated when topics vary. (Offered every year). Prerequisite: at least one course in ENGL at the 2000-level or higher.

ENGL-4422 Studies in 19th-Century British Literature

ENGL- 422 Studies in Literature

vary. Prerequisite: At least one ENGL course at the 2000 level or higher.

ENGL-4425 Seminars in Literary Periods

Examines issues and authors within their specific historical periods. May be repeated when topics vary. (Offered every year). Prerequisite: At least one ENGL course at the 2000 level or higher.

ENGL-4426 Seminar on Individual Authors

In-depth study of one or more major figures. May be repeated when authors vary. (Offered every year). Prerequisites: At least one ENGL course at the 2000 level or higher or consent of instructor.

ENGL-4427 Literature of the Holocaust

Examines cultural, generational, and literary perspectives of the Holocaust.

ENGL-4330 Studies in Literary and Cultural Theory

Selected topics and issues in contemporary theory, examining major texts of feminism, new historicism, marxism, deconstructionism, psychoanalysis, and literary canons and traditions. May be repeated when topics vary. Prerequisite: ENGL 2311 or consent of instructor.

ENGL-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 Thesis. To be taken only by Senior Honors students in the first semester of their senior year. Prerequisite: Consent of instructor.

ENGL-4399 Senior Thesis II

Individual research and scholarly investigation under faculty supervision leading to the preparation of a Senior Thesis. To be taken only by students in the second semester of their senior year. This course fulfills the Senior Experience requirement of the University's Common Curriculum. Prerequisite: ENGL 4398

Engineering Science

Faculty

[Farzan Aminian, Ph.D.](#) , Professor; Chair

[Johann Dorfling](#) , Visiting Professor

[Diana Glawe, Ph.D., P.E.](#) , Associate Professor

[Peter Kelly-Zion, Ph.D.](#) , Professor

[Jack Leifer, Ph.D.](#) , Associate Professor

[Kevin Nickels, Ph.D.](#) , Associate Professor

[Dany Munoz Pinto, Ph.D.](#) , Assistant Professor

[Joshua D. Schwartz, Ph.D.](#) , Associate Professor

[Wilson Terrell Jr., Ph.D.](#) , Associate Professor

[Mahbub Uddin, Ph.D.](#) , Professor

Deryck Young , Visiting Professor

Overview

Mission

The mission of the Engineering Science Department at Trinity University is to provide students with a broad-based undergraduate engineering education by offering a design-oriented, multi-disciplinary engineering science curriculum in the context of the University's traditions of the liberal arts and sciences.

Objectives

The Engineering Science Department graduates are expected to attain the following objectives within a few years after graduation:

1. Successful practice of engineering design and analysis in their field;
2. Application of a broad background in liberal arts and sciences when solving engineering problems with humanistic dimensions in their professional practice;
3. Advancement in their engineering careers with increased responsibility and leadership roles;
4. Effective oral and written communication with diverse groups of people;
5. The pursuit of continuing or advanced education relevant to professional interests.

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.

II. Electives necessary to bring the total credit hours earned for the degree to 129.

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	

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

ENGR-2320 Electric Circuits

An introduction to the techniques of analysis and design of elementary linear electric circuits. Topics include mesh, node and equivalent circuit analyses, DC resistive circuits, operational amplifiers, modeling of RLC circuits using differential equations, transient responses and AC steady state. Prerequisite: MATH 1312 Corequisite: ENGR 2120.

ENGR-2120 Electric Circuits Laboratory

Laboratory course accompanying ENGR 2320. An introduction to the measurement of voltage and current, uses of simulation and experimentation for analysis and design, and the design of elementary electric circuits. The writing of technical reports and the interpretation and documentation of experimental results is emphasized. Corequisite: ENGR 2320.

ENGR-2359 Fundamentals of Environmental Engineering

Engineering analysis and design of treatment processes for industrial pollution of air, water, and soil. Topics include contaminants, their sources, and cleanup. Economic and legal consideration. (Offered every other year). Prerequisite: CHEM 1318 and Sophomore standing.

ENGR-2364 Electronics I

An introduction to the techniques of analysis, design, and understanding of elementary electronic devices and circuits. Modeling of linear and non-linear electronic devices and systems such as diodes, bipolar junction, and field effect transistors, operational amplifiers, and digital logic devices. Analysis and design of circuits using device and system models. An introduction to digital logic, including analysis and design techniques. Prerequisite: ENGR 2320. Corequisite: ENGR 2164.

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

Builds on the students' background in electrical engineering with emphasis on the design of digital logic based systems. Supporting topics include combinatorial and sequential circuits, programmable logic, finite state machines, microprocessor-based systems, introductory programming, and functional block diagrams. (Offered every year). Prerequisites: ENGR 2364 and 2164.

ENGR-3182 Engineering Design VI

Builds on the students' background in thermodynamics/fluids with the introduction of a competitive thermal-fluids design project. Supporting topics include thermal-fluids instrumentation and measurements; and computerized data acquisition, analysis, and visualization. Application of uncertainty analysis and design of experiments. Oral and written reports and design journals are required. Prerequisite: MATH 3320 Corequisites: ENGR 3323 and 3123.

ENGR-3321 Signals and Systems

The analysis of signals and linear systems in the time and frequency domains using transform methods. Topics include: methods of modeling signals and systems, convolution, frequency response, impulse response, the Fourier and Laplace transforms, and transfer functions as applied to circuits and general linear systems. Prerequisites: ENGR 2320 and MATH 3316.

ENGR-3121 Signals and Systems Laboratory

Laboratory to accompany ENGR 3321. A mix of experiments and short design projects intended to motivate, illustrate, and apply concepts from ENGR 3321. Modern methods of simulation and computer-aided design of linear systems are introduced. Corequisite: ENGR 3321.

ENGR-3323 Fluid Mechanics I

An introduction to the fundamentals of fluid mechanics, including hydrostatics, conservation of mass, momentum, and energy for a control volume, dimensional analysis and similarity, flow measurement, and pipe flow. Prerequisites: ENGR 3327 and 2314. Corequisites: ENGR 3123 and MATH 3357.

ENGR-3123 Fluid Mechanics I Laboratory

Experimental investigations in fluid mechanics including instrumentation and measurements, analysis, design, and

reporting of results. Corequisite: ENGR 3323

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

Small-scale and medium scale integrated circuits as well as several varieties of programmable logic are used as design components. Includes a case study of complex sequential circuit such as a microprocessor.

ENGR-4165 Digital Logic Design Laboratory

Laboratory to accompany ENGR 4365. A series of short design projects intended to motivate, illustrate, and apply design techniques taught in ENGR 4365. Projects are implemented using various programmable logic devices. Corequisite: ENGR 4365.

ENGR-4366 Unit Operations

Mass transfer in multi-component systems and its relationship to fluid mechanics and heat transfer. Techniques of 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 finite-element 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-4375 Structural Dynamics

Free and forced vibrations of single and multiple degree of freedom systems with and without damping, structural response to dynamic loads, eigenvalue problems, energy methods, differential equation methods, forcing functions, and numerical analysis. Prerequisites: ENGR 2314 and MATH 3316

ENGR-4377 Electronics II

Analysis and design of digital electronic circuits using MOS transistors; analysis and design and operational amplifiers; feedback amplifiers and frequency response of amplifiers. Prerequisite: ENGR 2364.

ENGR-4177 Electronics II Laboratory

Laboratory to accompany ENGR 4377. Computer-aided design of integrated circuits and verification of design using simulation and/or laboratory experimentation. Corequisite: ENGR 4377.

ENGR-4381 Engineering Design VII

A capstone design experience with small groups of students, each group advised by a designated faculty member. Includes the establishment of objectives and criteria, modeling, analysis and synthesis, and synthesis, and aesthetics for the preliminary design stages of each group's project. Projects will involve realistic design constraints such as ethics, health and safety, manufacturability, sustainability, economics, the environment, and social and political issues. Oral and written reports and design journals are required. Prerequisite: Consent of Department Chair.

ENGR-4382 Engineering Design VIII

The capstone experience continued, including final design, construction, testing, and evaluation of the projects started in ENGR 4381. Oral and written reports and design journals are required. Prerequisite: ENGR 4381 or consent of Department Chair.

ENGR-3-90 Directed Research

Individual research conducted under faculty supervision. Oral and written communication of results is required, including an end-of-semester written report. Credit may vary from 1 to 3 hours. The course may be repeated for additional credit. Prerequisites: Consent of instructor and the department chair.

ENGR-1-90 Directed Research - Introductory Level

Individual research conducted under faculty supervision. Oral and written communication of results is required, including an end-of-semester written report. Credit may vary from 1 to 3 hours. The course may be repeated for additional credit. Prerequisites: Consent of instructor and department chair.

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.

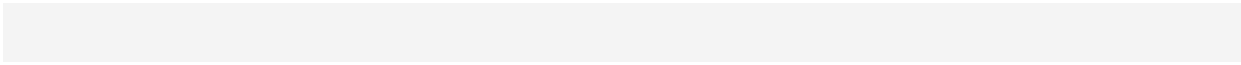
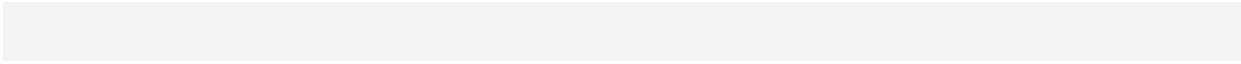
Requirements

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-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 su

Consent of Instructor

Environmental Studies

Faculty

[Diana Glawe, Ph.D., P.E.](#) , Associate Professor, Engineering Science

[Glenn Kroeger, Ph.D.](#) , Associate Professor, Geosciences

[Kelly Lyons, Ph.D.](#) , Associate Professor, Biology

Jennifer P. Mathews, Ph.D.

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

PHYS 1309 or PHYS 1311	General Physics I
PHYS 1310 or PHYS 1312	General Physics II
PHYS 2311	Introduction to Biophysics
PHYS 3312	Geophysics
PHYS 3321	Statistical Physics and Thermodynamics
PHYS 3322	Classical Mechanics and Nonlinear Dynamics

4. Engineering (4 of the following):

ENGR 2311	Mass and Energy Balances
ENGR 2359	Fundamentals of Environmental Engineering
ENGR 3327	Thermodynamics I

One course from the courses listed above for the Environmental Science concentration in Biology, Geosciences, or Physics.

B. Environmental Policy: (18-19 credit hours)

The **Environmental Policy** concentration is intended for students seeking an interdisciplinary approach to the evaluation of environmental policy, environmental justice, and environmental issues. It prepares students for graduate programs in public policy and other social sciences and for careers in nonprofit, education, government, and consulting organizations.

ENVI 2301	Environmental Science Methods and Analysis
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And 1 course from each of the following areas:

1. Analytical Approaches: Economics:

BUSN 3338	Government Regulation of Business (also listed as ECON 3338)
ECON 3323	Economics of the Government
ECON 3334	Urban Economics (also listed as URBS 3334)
ECON 3338	Government Regulation of Business (also listed as BUSN 3338)
URBS 3334	Urban Economics (also listed as ECON 3334)

2. Analytical Approaches: Political Science

PLSI 3313	Policy Analysis and the Policymaking Process
PLSI 3316	Urban Politics
PLSI-3366	Governance and Public Policy in Contemporary China

3. Perspectives: Case Studies I

ANTH 3367	South American Indigenous Peoples
ANTH 3464	Morality in the Marketplace
ANTH 4354	Seminar on Primatology

4. Perspectives: Case Studies II

ENVI 4309	Special Topics in Environmental Policy
SOCI 3340	Urban Geography
ANTH/SOC 3345	International Issues in Health and the Environment
SOCI 4362	Globalization and International Development

5. Applications:

ENVI 4395	Environmental Internship
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C. Environmental Arts and Humanities (18 credit hours)

The Environmental Arts and Humanities concentration offers students the opportunity to develop their interpretive, expressive, and critical skills and talents in areas of art, literature, and the humanities in the context of environmental issues.

ENVI 2301	(Environmental Science Methods and Analysis)
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And 5 courses from the following (* These classes may be taken as Concentration Courses if not included as a Required Foundation Course.):

ART 2495*	Outdoor Studio
ARTH 3452	Nineteenth-Century Architecture and Urbanism
ARTH 3354	Architecture of Mexico
ARTH 3464	Twentieth-Century Architecture and Urbanism
CMLT 2301*	World Literature and the Environment

CMLT 2350	Science Fiction and the Environment
ENGL 2303	American Literature: Colonization to 1900
ENGL 3365	Nineteenth-Century British Poetry
ENVI 4395	Environmental Internship
GNED 3391*	Special Topics in General Education: Literature and the Environment
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

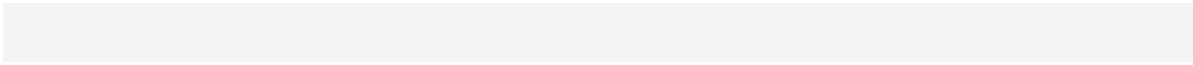
The Environmental Studies minor is an interdisciplinary study of the Earth's environment and human interaction with that environment. The required courses address environmental issues from natural science, economic, and sociocultural perspectives. At least nine hours need to be upper-division courses. 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



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 opportunity to study the wide-ranging interdisciplinary questions relating to the environment and sustainability through a variety of courses while they pursue any major at Trinity. The program offers a certification as a supplement to traditional majors and minors.

Students earn the certification by successfully completing a minimum of five of the "Green Leaf" courses accepted by the program. ("Green Leaf" courses are noted in the class schedules in the text under the course title.)

At least one class of the five must be taken from each of the three categories:

- I. Sciences and engineering;
- II. Humanities and arts;
- III. Social sciences and business.

No more than two courses can be in the student's major.

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
GEOS 1307	Exploring Earth
GEOS 1405	Oceanography
GEOS 3411	Hydrology
PHYS 1303	The Earth's Changing Environment
PHYS 3348	Atmospheric Physics

II. Humanities and Arts:

ART 2495	Outdoor Studio
ARTH 3452	Nineteenth-Century Architecture and Urbanism
ARTH 3464	Twentieth-Century Architecture and Urbanism
ARTH 3365	Contemporary Architecture
CLAS 1304	Introduction to Archeology of the Aegean, Classical, and Roman Worlds
CMLT 2301	World Literature and the Environment
ENGL 3365	Nineteenth-Century British Poetry
ENGL 3371	American Literature of the Nineteenth Century: Realism and Naturalism
HIST 3337	Technology and Culture
HIST 3344	Modern Brazil

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

This course analyzes the environment from three related perspectives: the natural sciences, social policy and aesthetic appreciation. The course perspectives including biology, geosciences, policy, art and ethics. In addition

to lectures and laboratory work, the course uses field and site trips to investigate the real world conditions for environmental understanding and action.

ENVI-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-2-10 Environmental Studies Field 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

ENVI-4398 Thesis Research

Film Studies

Faculty

[Aaron Delwiche, Ph.D.](#) , Professor, Communication

[Nina C. Ekstein, Ph.D.](#) , Professor, Modern Languages and Literatures

[Jennifer Jacobs Henderson, Ph.D.](#) , Professor, Communication

[Rachel Joseph, Ph.D.](#) , Assistant Professor, Human Communication and Theatre

[Patrick Keating, Ph.D.](#) , Associate Professor, Communication; Director

[Curtis Swope, Ph.D.](#) , Associate Professor, Modern Languages and Literatures

[Rita E. Urquijo-Ruiz, Ph.D.](#) , Associate Professor, Modern Languages and Literatures

[Michael Ward, Ph.D.](#) , Associate Professor, Modern Languages and Literatures

Overview

The Minor

The minor in Film Studies is an interdisciplinary program that explores film as a cultural, artistic, and commercial product. Students will have the opportunity to study film principles through theory, history, and practice.

Requirements

Requirements

The requirements for a minor in Film Studies are as follows:

I. Complete 21 credit hours in the following distribution:

- A. FILM 1301 (Introduction O 1 ce.

ART 2450	Beginning Photography
ART 3350	Intermediate Photography
ART 4-50	Advanced Photography
ART 2352	Beginning Digital Photography
ART 3352	Intermediate Digital Photography
ART 4-52	Advanced Digital Photography
ART 2380	Digital Art
ART 3380	Advanced Digital Art
COMM 3340	Media Writing: Scriptwriting
COMM 3342	Visual Communication: Narrative Video Production
COMM 3342	Visual Communication: Theory and Practice of Montage
ENGL 3402	Fiction Writing
THTR 1320	Introduction to Production Techniques
THTR 1352	Acting I
THTR 2310	Principles of Design
THTR 2314	Principles of Stage Lighting
THTR 2352	Acting II: Scene Study
THTR 3340	Directing
THTR 3360	Playwriting

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 visions of human experience; while others are selected for their political, ideological, or sociological significance. Students should develop an awareness that the medium of film has a history and that its history is not confined to national boundaries. (Also listed as COMM 2301).

Geosciences

Faculty

[Thomas W. Gardner, Ph.D.](#) , Imogene and Harold D. Herndon Distinguished Professor of Geology

[Glenn Kroeger, Ph.D.](#) , Associate Professor

[Dan Lehmann, Ph.D.](#) , Gertrude and Walter Pyron Professor of Geosciences

[Diane Smith, Ph.D.](#) , Murchison Term Professor of Geosciences

[Benjamin Surpless, Ph.D.](#) , Associate Professor

[Kathleen Surpless, Ph.D.](#) , Professor; Chair

Overview

- [Bachelor of Arts Degree in Earth Systems Science \(ESYS\)](#)
- [Bachelor of Science Degree in Geosciences](#)
- [Guidelines for Acceptance of Majors](#)
- [The Minor](#)
- [Honors in Geosciences](#)

Bachelor of Arts Degree in Earth Systems Science (ESYS)

The Bachelor of Arts program prepares students interested in careers or disciplines (e.g., environmental science, secondary education, law, geography) that require a fundamental understanding of earth systems. This program offers flexibility, allowing students to pursue intensive study in other disciplines. The requirements for the degree of Bachelor of Arts with a major in Earth Systems Science are:

I. Departmental requirements:

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

1. One of GEOS 1303, GEOS 1304, GEOS 1405, GEOS 1307, or GEOS 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, 2412, 2305, 3434; BAT/ECON2301; CHEM 1318, 1118, 2319, 2119; MATH 1311, 1312, 1320, 2308; CSCI B.) .

Honors in Geosciences

Requirements

Six hours of Thesis credit, GEOS 4395 and 4396, must be completed over two semesters. Students may enroll for thesis credit only with the permission of the thesis director. A formal written thesis proposal must be submitted to the geosciences faculty before the end of the fourth week of classes during the first semester of enrollment for thesis credit. The student may become a formal candidate for Departmental Honors by addressing a written request for consideration, accompanied by a letter of support from the student's thesis director, to the Chair of the department. Achievement of Department Honors will be determined by the quality of the thesis research, the written and oral presentations, and satisfaction of University requirements.

Courses

GEOS-1303 Volcanology

The study of volcanoes with emphasis on volcanic morphology, eruptive mechanisms, rock types, and magmatic properties and processes. Volcanoes will be examined in the context of plate tectonic theory. Natural resources produced by volcanic processes and geologic hazards associated with volcanism will be discussed. Field trip may be required; field trip costs must be paid by each student.

GEOS-1405 Oceanography

A 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-1304 Environmental Geology

A study of the environment that humans inhabit on Earth. Topics include geologic hazards such as volcanism, earthquakes, mass wasting and flooding; geologic resources such as soils, groundwater, mineral resources and fossil fuels; and the interaction of human activities with the geologic environment including urban development, flood control, agriculture, and climate change. Field trip is required; field trip costs must be paid by each student.

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 process 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. Only one of GEOS 1409 and GEOS 1304 may be taken for credit. (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).

Prerequisites: One lower division GEOS Course or fulfillment of the Natural Sciences Approach of the Pathways curriculum.

GEOS-2401 Earth History

A study of the significance of time as reflected in the rock and fossil record, with emphasis on understanding geological processes within a time framework. An analysis of time concepts, stratigraphic principles, and the fundamentals of sedimentary geology including the historical development of geological concepts and the recognition and reconstruction of ancient environments. Laboratory: study of minerals, rocks, and fossils; interpretation of surface features and time relationships through the use of topographic and geologic maps, cross sections, correlation diagrams, and aerial photos. Three class hours and three laboratory hours a week. Field trips

are required; field trip costs must be paid by each student. Prerequisites: GEOS 2400

GEOS-2304 Earth Surface Processes

A survey of the important processes that create landforms on the Earth's surface. Emphasis will be on chemical and physical weathering, running water, wind, ice, and the resulting erosional and depositional landforms. The laboratory component will emphasize data collection and analysis techniques, including topographic maps, surveying and field trips. Two class hours and three laboratory hours per week for one semester. Field trips required; field trip costs must be paid by each student. Prerequisite: GEOS 2400

GEOS-3400 Earth Materials

An introduction to the origin, classification, and identification of minerals and rocks, including topics related to crystal systems and structures, bonding, mineral chemistry, the nature of magma, solidification of magma, magma

GEOS-3307 Planetary Geology

An introduction to the geologic processes that operate on the surfaces and within the interiors of rocky ice-rich objects in the Solar System. Earth analogues, remote sensing, and the latest results from the robotic planetary exploration are used to investigate the origin and geology of the solar system. Topics include nebular materials and processes in the early solar system, orbital dynamics, meteorites and impact cratering, formation and evolution of lithospheres and atmospheres, volcanism and tectonics, weathering phenomena, planetary environments, space missions and the data sets they collect. Prerequisite: GEOS 2400

GEOS-3309 Tectonics

Study of the tectonic processes of the Earth with emphasis on the historical development of tectonic theory and current research in tectonics. Topics include: geophysical and geochemical characterization of the Earth's interior, plate kinematics and dynamics, earthquake mechanisms, the nature and origin of continental crusts and margins, and the relationship between tectonics and rock-forming processes. Prerequisite: GEOS 3400

GEOS-3310 Global Climate Change

An intermediate-level study of the fundamental science of global climate change. Topics include an introduction to the global climate system, a review of the fundamentals of energy transfer between earth systems, investigation of the geologic evidence of natural climate change, and evidence for anthropogenic climate change. The course will also delve into the present and future impacts of climate change on natural systems and human activities, and students will investigate potential viable solutions to global climate change. (Offered every Spring) Prerequisites: One lower division GEOS course.

GEOS-3411 Hydrology

A description of the terrestrial hydrologic cycle and its fundamental components including precipitation, evapotranspiration, infiltration, hillslope hydrology, runoff, flood hydrology and groundwater flow. Emphasis will be placed on physical principles governing the movement of water across and through the Earth's surface. Human interaction with all aspects of the hydrologic cycle will be addressed. The laboratory component of the course will focus on data collection, analysis and manipulation, and involve a significant field component. Three class hours and three laboratory hours a week. Field trips are required; field trip expenses must be paid by each student. Prerequisites: GEOS 2304; PHYS 1309/1111 or Phys 1311/1111 or equivalent.

GEOS-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. (Same as PHYS 3412) Three class hours and three laboratory hours per week. Field trips are required; field trip expenses must be

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

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 multiple sections linked by a common syllabus and a weekly common learning experience for all students and faculty. Each section is taught by two instructors and is the equivalent of two three-hour courses.

GNED-1300 First Year Seminar

An interdisciplinary seminar focusing on various themes, required of all first-year students.

An examination of key issues bearing upon nature and our place in the universe from the sciences, literary and

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 for curriculum design. Requirements: Consent of Instructor

GNE-2110 McNair Tutorial - Sophomore Level

An examination of research design, research ethics, the presentation of research findings, and related issues for sophomore level participants in the McNair Scholars Program. May be repeated for a maximum of two hours credit. Pass/Fail only. Prerequisite: Admission to the McNair Scholars Program and consent of instructor.

GNE-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

GNE-3326 U.S. Latino Culture and Artistic Expression

An examination and evaluation of U.S. Latino 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.

GNE-3328 The Peer Tutor

Course for peer tutors to First-Year Experience.

GNE-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.

GNE-4110 McNair Tutorial - Senior Level

An examination of research design, research execution, and 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.

GNE-4300 Senior Interdisciplinary Seminar

An Interdisciplinary Seminar focusing on various themes drawn from the humanities, social sciences, natural sciences, and/or quantitative reasoning. Prerequisites: Admission to the University and Nondepartment-s

Health Care Administration

Faculty

Admission Requirements

Any undergraduate major is carefully considered. The following items are required for admission to the program: completed application for admission to graduate study and a \$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 or B. (C grades will be evaluated on an individual basis.)
- II. Individual petition to the Admissions Committee for any exceptions.

An advance deposit of \$200, which will be applied toward tuition, is required of applicants who have been accepted for admission. Checks should be made payable to Trinity University and directed to the Health Care Administration Department. Consult the Tuition and Fees section for details.

Course of Study

A Master of Science in Health Care Administration will be conferred by Trinity University upon completion of a course of study that includes 16 months of on-campus study and an administrative residency, usually of 12 months. A class is admitted in the fall semester. Degree requirements may be met under either a thesis or non-thesis alternative. Each plan requires 50 credit hours during the on-campus portion of the program, but the non-thesis alternative substitutes 6 hours of coursework for 6 hours of thesis credit. Both plans require an administrative residency that carries 6 hours of graduate credit. The specific courses for either of these plans shall be determined by the student's adviser and Chair of the Department of Health Care Administration after

consideration of the student's academic background and experience.

The following courses are recommended:

HCAD 5101	Seminar in Professional Development for Health Care Executives
HCAD 5102	Physicians and Physician Relations
HCAD 5220	Statistical Analysis in Health Care Organizations
HCAD 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
HCAD 5383	Health Care Institutional Management
HCAD 5387	Health Information and Data Analytics
HCAD 5390	Problems: Performance Improvement in Health Care Organizations
FNCE 5351	Financial Analysis for Decision Making

Executive Program

Trinity University's Health Care Administration Executive Program is designed to meet the educational needs of those individuals currently holding responsible positions in a health care organization. The Executive Program is a part-time, distance-learning experience designed for individuals employed full-time in the health care field. Because students must have prior management-level experience, the program fosters learning opportunities that integrate the theory and principles of health care administration with the richness of each participant's practice setting. A

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

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health care services, styles and their application in the health care industry, methods and techniques that can be used to manage conflict within organizations, and exposure to current trends and conceptual models of leadership and conflict management.

HCAD-5373 Health Administration Ethics

An analysis of health care issues through lecture, case study, and practitioner involvement. Emphasis on overseeing the moral mission of health institutions while at the same time maintaining the economic viability of those institutions.

HCAD-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-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 problems of health care institutions.

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 in Health Care Organizations

This course covers topics in basic applications of operations research techniques to health care planning, control, and decision making, including deterministic and random models, mathematical programming, queuing, simulation, forecasting, and quality improvement. Emphasis is placed on model formulation and computer solution of decision models.

HCAI-5231 Health Care Organization Theory and Management

Cases, concepts, and research findings in health care organizational behavior and administration. Analysis of the

impact of individuals, groups, and organizational structure and environment on management performance. The topics of power and leadership are covered in other required courses. Available only to two-year Executive Program students.

HCAI-5233 Information Technology and the Management of Health Care Organizations

As information systems and information technology continue to evolve, health care managers must have a conceptual and operational understanding of the ways that technology can enhance both the delivery and management of health care services. This course will explore how health care organizations can utilize information systems and technology to integrate strategic management with clinical and web-based functions, assess organizational effectiveness, improve clinical care, and achieve patient safety goals.

HCAI-5270 Health Administration Ethics

An analysis of health care issues through lecture, case study, and practitioner involvement. Emphasis on overseeing the moral mission of health institutions while at the same time maintaining the economic viability of those institutions. Available only to two-year Executive Program students.

HCAI-5301 Managerial Accounting

Concepts and techniques of managerial accounting for generalist health care administrators. Emphasizes managerial accounting applications for using financial data as a tool for management planning and decision making in health care. Topics covered include financial accounting, cost accounting, source of revenues, budgeting and control, pricing, and profitability determination. Available only to two-year Executive Program students.

HCAI-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-effective analysis. Emphasis on use of economic analysis for strategic planning.

HCAI-5330 Health Services Organization and Policy

An overview of the organization, delivery, financing, and evaluation of the U.S. health care system. Emphasis is on major system components and their inter-relationships. Key concepts include social values, health personnel, health facilities, major financing mechanisms, and health policy.

HCAI-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

Human Communication & Theatre

Faculty

[Stacey Connelly, Ph.D.](#) , Associate Professor, Theatre

[Timothy Francis, M.F.A.](#) , Technical Director and Lighting Designer, Theatre

[Kyle Gillette, Ph.D.](#) , Associate Professor, Theatre; Director of Theatre

[Andrew Hansen, Ph.D.](#) , Associate Professor, Human Communication; Chair

[Rachel Joseph, Ph.D.](#) , Assistant Professor, Theatre

[Jodi Karjala, M.F.A.](#) , Costume Designer/Costumer, Theatre

[John McGrath, Ph.D.](#) , Professor, Human Communication

[William Mosley-Jensen](#) , Assistant Professor, Human Communication; Director of Debate

Scott Neale, M.F.A. , Assistant Professor, Theatre

[Roberto Prestigiaco, M.F.A.](#) , Associate Professor, Theatre

Nathaniel Stith, Ph.D. , Assistant Professor, Human Communication

[Erin M. \(Bryant\) Sumner, Ph.D.](#) , Assistant Professor, Human Communication

[Jamie Thompson, M.Ed.](#) , Director, Student Involvement

Amanda Zuckman, B.A. , Coordinator of Theatre Arts, Theatre

Requirements

- [The Major](#)
- [The Minor](#)
- [The Honors Program](#)

The Major

The requirements for the degree of Bachelor of Arts with a major in Human Communication or Theatre are as follows:

I. Departmental requirements:

A. The Human Communication major consists of 30 credit hours to be taken as follows:

1. Required core consists of 15 credit hours.

a. Within Human Communication (12 credit hours):

HCOM 1300	Theories of Human Communication
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HCOM 2304	Interpersonal Communication
HCOM 3334	Persuasion
HCOM 3350	Rhetorical Criticism (also listed as ENGL 3334)

b. Select one of the following in quantitative research methods:

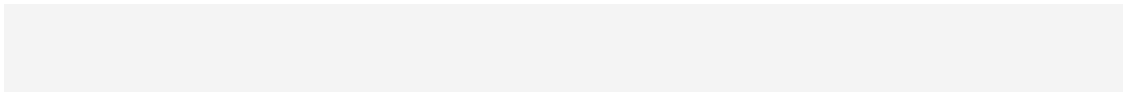
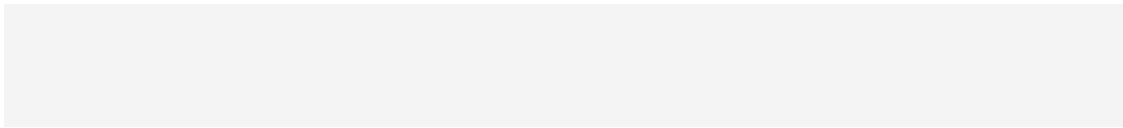
HCOM 3354	Quantitative Research Methods (also listed as COMM 3354)
BAT 2301	Statistics for Management and Economics
MATH 1320	Statistical Methods
PSYC 2422	Statistics and Methods I
SOCI 3460	Research Methods: Social Statistics

2. Controlled electives consist of 9 credit hours. At least 3 credit hours must be chosen from each of the following areas:

a. Public Communication

HCOM 1333	Public Speaking
HCOM 2140	Forensics
HCOM 3374	International Communication (also listed as COMM 3322)
HCOM 4350	Political Communication (also listed as PLSI 3304)
HCOM 4391	Special Topics in Public Communication

3. General Human Communication Electives consist of at least 6 more hours of Human Communication



THTR 3331	History of Theatre I: The Classical Stage to the Theatre of the Enlightenment OR
THTR 3332	History of Theatre II: Romanticism to Performance Art
THTR 3337	Contemporary Theatre

f. 9 additional hours of Theatre electives of which no more than 3 credit hours of directed studies or special topic courses may be applied toward the required 37 hour major.

g. At least 18 hours of the Theatre major must be upper-division coursework.

h. Additional courses in Theatre may be taken, but not substituted for those listed to fulfill the major requirements.

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

The Minor

Two minors are available in the Department of Human Communication and Theatre. In both minors at least 9 hours must be upper-division coursework.

Human Communication: Minor consists of 18 credit hours to be taken as follows:

- I. 6 of the 18 hours must be selected from the required core of Human Communication courses for the major.
- II. 3 hours must be selected from each of the three controlled elective areas of the major.

Theatre: The Theatre Minor consists of 20 hours to be taken as follows.

- I. Required core consists of 11 credit hours.

THTR 1100	University Theatre Company I (two semesters for a total of two credit hours)
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An additional 9 hours to be selected from the following courses:

THTR 1304	Introduction to Theatre
THTR 1314	Introduction to Dramatic Literature
THTR 1320	Introduction to Production Techniques
THTR 1330	Principles of Costume Technology

THTR 1350 Introduction to Acting

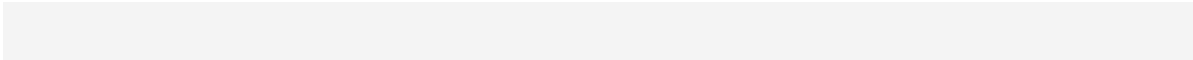
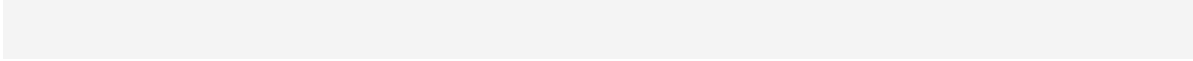
THTR 2100 Stage Makeup Design

THTR 2310 Principles of Design **OR**

ART 1410 Design

THTR 2332 Play Structure and Analysis

THTR 2354



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 contexts.

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

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, focusing on the works of such leaders as Locke, Campbell, Richards, Burke, and Perelman. Also, studies associated movements such as epistemology, form and genre, and dramatism.

Human Communication - Upper Division

HCOM-3330 Argumentation

A study of the theoretical basis of argument as a rhetorical device for critical decision-making. Includes, but is not limited to, consideration of the types of propositions; questions of definition; uses of evidence; reasoning and delivery; and procedural issues including the burden of proof, and the nature of the decision to be made.

HCOM-3332 Computer Mediated Communication and Social Relations

This course examines the role of computer-mediated communication in social relationships. Students will gain practical and theoretical understanding of how communication technologies (e.g., email, social media, and mobile devices) are utilized to initiate, develop, maintain, and dissolve interpersonal and group communication. Additionally, students will gain knowledge regarding how traditional interpersonal communication concepts can be

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. Included are performance, assistant directing, dramaturgy, choreography, and a weekly course meeting. May be repeated for three credit hours. Students working in University Theatre Productions who are neither theatre majors nor minors are encouraged to enroll in THTR 1100 but are not required to do so.

THTR-1101 University Theatre Company II

Course focuses on specific responsibilities assigned by faculty and staff regarding University Theatre Productions. Included are performance, construction, running and operating crews, assistant stage management, and a weekly course meeting. May be repeated for four credit hours. Students working in University Theatre Productions who are neither drama majors nor minors are encouraged to enroll in THTR 1101 but are not required to do so.

THTR-1154 Dance for Theatre

Dance for theater is for students of various levels of expertise in dance, ranging from beginner to advanced, to acquire and polish their skills and convey character through dance. The topic varies based on production needs within the department, but all courses will be primarily skill-based and performance oriented, with short choreography and dance appreciation segments. Topics may include: jazz, tap, modern, ballet, choreography, and other pertinent dance forms. Course is repeatable for up to six credit hours.

THTR-1304 Introduction to Theatre

A hands-on approach to the fundamentals of theatre including literature, acting, directing, and design. Intended as a survey, this course will provide an overview of theatre's numerous components, from the page to the stage, so that the beginning student may better understand the theatrical world.

THTR-1306 Oral Interpretation

Examines the performative and other critical approaches to the study of literature. Investigates and explores critical methods for analyzing texts and their application to the oral study and performance of a variety of literary genres. (Same as HCOM 1323)

THTR-1314 Introduction to Dramatic Literature

A survey of dramatic literature in the western canon from Ancient Greeks to the contemporary era. Students will read and discuss a significant number and range of plays in their theatrical, social, and cultural contexts.

THTR-1320 Introduction to Production Techniques

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-2314 Principles of Stage Lighting

An introductory course that explores the use of light as an artistic medium in theatrical productions. This overview

Sophomore standing or permission of instructor.

THTR-2354 Vocal Performance for the Actor

Provides fundamental concepts and techniques of vocal production, voice and diction, and vocal performance training. Various modes of body/voice exploration are employed. Voice and body work are developed through multiple performance opportunities that seek to increase the performer's vocal clarity, power, flexibility, and range. (Also listed as HCOM 2313).

THTR-2356 Physical Theatre Laboratory

Drawing together movement, dance, text, mask, song, fiction, and design, students will develop a creative vocabulary that will lay the foundation of a physical approach to theatre. By recalling the traditional popular theatre forms of commedia dell' arte and clowning, as well as mask performance and puppetry, the students will explore the creation of a performance which breaks the boundaries of individual disciplines.

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

Costume design for theatrical productions. This course acquaints the student with the artistic techniques and principles used to create costume designs. Students will analyze play scripts in terms of their dramatic components and visual environment and use this information to create appropriate theatrical costume designs. Emphasis is placed on the visual interpretation of literary works using character study, period research, and script analysis. Prerequisite: ART 1310 or THTR 2310 or consent of instructor.

THTR-3313 Scene Design

Rooted in the discipline of theatre, this course explores the art of conceptualization, visualization, and creativity. Problem solving activities include the use of metaphor to communicate literature for live performance, the creation of sculptural installations for plays and poetry, and the management of scenic design projects. The course examines the various means necessary to communicate a design to a producer, director, or client (sketching, drafting, painter elevations, and model making). Prerequisite: ART 1310 or THTR 2310 or consent of instructor.

THTR-3215 Design Project

Students design costumes, lights, or scenery which is actualized in a university mainstage production Admission to course by consent of Theatre Faculty and Staff.

THTR-3315 Theatrical Scene Painting

A study of color theory, scenic techniques, and painting styles introducing the student to the art of theatrical scene painting.

THTR-3320 Advanced Production Techniques: Computer Aided Design

Course will explore the increasing use of computer technology in the theatrical production. The course will acquaint tducing the n g the ng the n o cng t to the art ofn cos ng the n o cng ttee course will

THTR-3332 History of Theatre II: From Romanticism 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 GRST 3332.) (Offered every Spring.)

THTR-3335 Greek and Roman Drama

Study of trends in Greek and Roman dramatic literature, with attention to social, cultural, and political contexts. Topics will include the development of dramatic conventions and traditions of reception and performance. (Also listed as CLAS 3303) Prerequisite: Sophomore standing or consent of instructor

THTR-3336 Modern Theatre

Study of trends in dramatic literature from Realism to the present.

THTR-3337 Contemporary Theatre

Study of trends in dramatic literature from World War II through the present as manifested in the United States, Great Britain, Europe, and representative Third World Countries.

THTR-3340 Directing

This course will teach and develop the skills necessary for directing. These include: reading a script, casting, rehearsing, and staging. Class time will be divided between lecture/discussion and presentation of student prepared scenes. Prerequisites: DRAM 1350 or 1352 and 2332 or consent of instructor

THTR-3342 Stage Management

A study of the art of stage management, from the organizational paperwork to the running of a theatrical production. This course examines the necessary project management skills to communicate effectively with producers, directors, actors, designers, and technical staff. This class will identify and discuss the various responsibilities of theatrical stage managers and effective stage management techniques. Students will understand the working relationships with other theater professionals and unions, and learn proper stage management procedures for Trinity University Theater and other theater organizations.

THTR-3343 Arts Management

Principles of Art Management is an introductory course designed to acquaint students with essential behind-the-

scenes and administrative responsibilities necessary for theater, opera, and museum management. The course is recommended for Business, Theater, Art and Music majors who are interested in understanding professional opportunities beyond performance. The course will also introduce to Business and other majors new venues and opportunities where their talents and interests may be applied.

THTR-3352 Advanced Acting: Verse Drama

Verse Drama offers the advanced student scene work in plays from Classical antiquity, Elizabethan drama, Seventeenth Century drama, and other verse dramas from various periods and styles. Exercises explore scansion,

participating faculty member prior to registration. Credit may vary from 1 to 3 hours depending on the scope of the

Independent work under faculty supervision. The nature of the project will be agreed upon by the student and participating faculty member prior to registration. Credit may vary from 1 to 3 hours depending on the scope of the project. Maximum credit three hours. Prerequisite: 15 hours in Theatre, documentation of ability to undertake study, consent of instructor.

THTR-4-91 Special Topics in Design

An in-depth study of select design topics. May be repeated once when subject varies. Maximum credit is six semester-credit hours.

THTR-4-92 Special Topics in Performance

An in-depth study of select performance topics. May be repeated when subject varies. Maximum credit is six credit hours.

THTR-4393 Capstone for Theatre Majors

Theatre majors with senior standing will create a portfolio of Theatre coursework and production experiences, research career opportunities for the potential application of this portfolio, and present this synthesis to the

Thesis. To be taken only by senior Honors students in both semesters of their senior year.

History

Faculty

Anene Ejikeme, Ph.D. , Associate Professor

Jason Johnson, Ph.D. , Assistant Professor

Carey H. Latimore IV, Ph.D. , Associate Professor; Chair

David Lesch, Ph.D.

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.
- 3.66 average in th

Courses

Lower Division - African History

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 onasm; and; ona

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

HIST-1370 The African American Experience Through Reconstruction

This course focuses on the social, cultural, and political history of African Americans from approximately 1619 to 1877. Topics may include the genesis and ns S S 7 -1 S isS n C S S 7 C C 7. Topics may

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.

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 the battle of Actium (323-31 B.C.).

HIST-3318 The Roman Empire

A study of the early Roman Empire (31 B.C. - A.D. 235), with emphasis on the work of Augustus, the social and economic development in Italy and the provinces, the condition of the Roman world in the Antonine Age, and the rise of Christianity.

HIST-3319 The World of Late Antiquity

A study of the political, cultural, and religious life of the Roman Empire from the second to the fifth centuries CE—a vital transitional period between the classical and medieval worlds. Beginning with the "golden age" of the Antonine emperors, this course examines the military and political "crisis" of the third century, the Christianization of the empire in the fourth, and the religious and cultural conflicts that accompanied the fragmentation of power in the fifth. (Also listed as CLAS 3319.) Prerequisite: Sophomore standing or Consent of Instructor

HIST-3331 The Anglo-Saxons: Scholars, Saints, and Warriors

This course explores the history and culture of the Anglo-Saxons, who ruled England from 500 through 1066. Themes may include Anglo-Saxon warrior culture, foreign invasion and conquest, the development of kingship and

government, and the spread of Christianity. The discussion driven course will focus on the analysis of primary texts, works of art, and archaeological evidence.

Upper Division - Asian History

HIST-3320 The Rise of Modern China

Studies of modern Chinese history since 1800, with emphasis on the processes of modernization, the major phases of the Chinese revolution from the experience with Western imperialism through the Republican period and the emergence of the People's Republic of China. Class methods emphasize reading primary sources in translation and research and writing. Course taught in English. (Also listed as CHIN 3320) Prerequisite: HIST 1320 or consent of instructor.

HIST-3324 History of Korea

A survey of Korean history from the archaeological record through source materials on the development of the Korean state, the Confucian culture of the Chosen kingdom, and the multiple ordeals of modernization in the twentieth century.

HIST-3326 Race and Ethnicity in East Asia

This course progresses chronologically from Gallo-Roman Paris to present, and explores the continuation and changes in these 2000 years of Parisian history. Students will be introduced to social movements, revolutions, wars, painting, sculpture, architecture, graphic art, music and literature as well as the geography and history of the city. Students will read representative texts from every period. (Offered every other year.)

HIST-3334 Modern Germany

History of Modern Germany, including the Second Empire, Weimar Republic, National Socialism, two post-World War II German states, and the unified Federal Republic. (Also listed as GRST 3334)

HIST-3335 The Enlightenment

This course examines the Enlightenment as both an intellectual and cultural watershed moment in the eighteenth century life in the West. Students will explore the social and political thought of the period, looking at a variety of topics such as natural law theory, religious toleration, and the critique of absolute monarchy. Time will also be devoted to examining the emerging cultural institutions in which such ideas took form and circulated from the second half of the seventeenth century to the French Revolution. Prerequisite: HIST 1334 or consent of instructor.

HIST-3336 French Empire in the Americas, 1500-1800

Examination of French exploration and settlement in the Americas from the fifteenth century to the reign of Napoleon. Topics may include political, economic, and cultural explanations for exploration, interaction with indigenes and slaves, daily life in the colonial era, and the growing tensions between France and other imperial powers. Prerequisites: HIST 1334, 1360, 1370, or 1375 or consent of instructor.

HIST-3337 Early Modern France

History of France from the Wars of Religion to the French Revolution. The course will focus on the struggles between Protestants and Catholic, rural and urban life, the rise of the nation-state, the Enlightenment, and will conclude with a consideration of the political, economic, and cultural origins of the French Revolution. (Offered every other year.)

HIST-3338 History of the Holocaust

This course explores the O

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 from 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. 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 the Ottoman period through the present, including Syria's vital role in the disposition of the Middle East during and after World War One, the French Mandate, the post-World War Two rise of Arab nationalism intertwined with the Arab and superpower cold wars, the Arab-Israeli conflict, and post-cold war peace efforts and political transitions in

or consent of instructor.

Upper Division - United States History

HIST-3360 Economic and Business History of the United States to 1865

A study of the development of American business and the economy through the U.S. Civil War. (Also listed as ECON 3344 and BUSN 3344.) Prerequisites: ECON 1311 and 3 hours of U.S. history or consent of instructor.

HIST-3361 Economic and Business History of the United States Since 1865

A study of the development of the American economy from the U.S. Civil War to the present. (Also listed as ECON 3345 and BUSN 3345.) Prerequisites: ECON 1311 and 3 hours of U.S. history or consent of instructor.

HIST-3362 History of Early British America

The history of early British America from the sixteenth through the eighteenth centuries, concentrating on the establishment and development of indigenous if disparate polities, societies and economies. Prerequisites: At least one lower-division course in U.S. history through Reconstruction, or consent of instructor.

HIST-3363 Early American Social History

Discussion-oriented course focusing on the everyday life of ordinary people from the initial cultural contacts among Europeans, Native Americans, and Africans brought to the New World down through the Revolutionary period. Emphasis on the development and maturation of diverse mainland and island communities in British North America, as well as regional and temporal variations in gender, race, and class relations. Prerequisite: At least one lower-division course in US History through Reconstruction or Consent of Instructor.

HIST-3365 The American Revolution

Historical interpretations of the period 1763-1793 with focus on the Stamp Act crisis, the final break and war with Great Britain, and state and national constitution-making. Prerequisite: At least one lower-division history course in US History through Reconstruction or Consent of Instructor.

HIST-3465 The American Revolution

Historical interpretations of the period 1763-1793 with focus on the Stamp Act crisis, the final break and war with Great Britain, and state and national constitution-making. Prerequisite: At least one lower-division history course in US History through Reconstruction or Consent of Instructor.

Confederacy. Attention will be given to issues of race, class, gender, identity, and political ideology. Prerequisite: At least one lower-division US History course, or Consent of Instructor.

HIST-3375 The Civil War and Reconstruction

This course focuses on the Civil War and Reconstruction as dramatic and defining episodes in American history. Student will examine the emerging sectional conflicts that led up to the war, the military and social history of the war itself, and Reconstruction, with particular attention given to the construction of "freedom" following the upheaval. The class will focus on race, class, gender, and the shaping of individual and collective identities. Prerequisite: At least one lower-division US History course, or Consent of Instructor.

HIST-3376 History of Texas

Spanish and Mexican periods; revolution and the Republic; social, political, and economic changes since statehood.

Historiography, Thematic, and Comparative History

Interdisciplinary analysis of the Atlantic market joining Europe, Africa and the Americas from the sixteenth through nineteenth centuries, with particular emphasis upon slavery, the slave trade, and the development of the "plantation complex." Makes explicit use of economic theory to explain historical change. (Also Listed as ECON 3343) Prerequisites: ECON 1311 and HIST 1334 or HIST 1340, or consent of instructor.

Special Topics and Honors

HIST-1392 Topics in History

From time to time, the department will offer lower division courses not described in the Courses of Study Bulletin. May be repeated on different topics

HIST-3-90 Independent Study

Independent study in selected areas. 1 to 6 semester hours. Prerequisites: 6 advanced hours in history and consent of instructor.

HIST-3388 Methods of Instruction History

Examination of various ways to teach history at the elementary, secondary, or college levels with special emphasis on the inquiry process. Students will work with both original and secondary sources and develop an extensive teaching unit as a final project. Topics may include Texas, U.S., or world history.

HIST-3-92 Special Topics in History

From time to time the department will offer special topic courses not described in the Courses of Study Bulletin. Announcement of such courses will be by special prospectus. May be repeated on different topics.

HIST-4498 Honors Thesis

Individual research and scholarly investigation under faculty supervision leading to the preparation of an Honors Thesis. To be taken only by Senior Honors students in their first semester of their senior year.

HIST-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

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.

- 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

[Rosa Aloisi, Ph.D.](#) , Assistant Professor, Coordinator, International Affairs

[Rosana Blanco-Cano, Ph.D.](#) , Associate Professor, Modern Languages and Literatures; Coordinator, Mexico, The Americas, and Spain (MAS) Program

[Anene Ejikeme, Ph.D.](#) , Associate Professor, History; Coordinator, African Studies

[Stephen Lee Field, Ph.D.](#) , J. K. and Ingrid Lee Endowed Professor of Chinese Language and Literature, Modern Languages and Literatures

[Robert Huesca, Ph.D.](#) , Professor, Communication

[Nanette C. Le Coat, Ph.D.](#) , Associate Professor, Modern Languages and Literatures; Coordinator, European Studies; Director of International Studies

[Alfred Montoya, Ph.D.](#) , Associate Professor, Sociology and Anthropology

[Tahir H. Naqvi, Ph.d.](#) , Associate Professor, Sociology and Anthropology

[Aaron Navarro, Ph.D.](#) , Associate Professor, History

[David Ribble, Ph.D.](#) , Professor, Biology; Coordinator, International Environmental Studies

[Eugenio Dante Suarez, Ph.D.](#) , Associate Professor, Finance and Decision Sciences

[Heather Sullivan, Ph.D.](#) , Professor, Modern Languages and Literatures; Coordinator, European Studies

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](#)
- [The Concentrations](#)
- [The Senior Experience](#)
- [Languages Across the Curriculum Program](#)
- [Concentration Course Requirements](#)
 - [African Studies](#)
 - [East Asian Studies](#)
 - [European Studies](#)

The Minor

The requirements for a minor in International Studies are as follows:

- I. Completion of no fewer than 21 credit hours.
- II. The lower division sequence in an appropriate foreign language (the equivalent of four college semesters). This requirement in the Middle East and East Asian Studies concentrations maybe modified in special circumstances upon recommendation of the adviser and the consent of the International Programs director.
- III. One of the following courses: HIST 3369 (U.S. Diplomatic History), PLSI 1342 (International Politics), or ANTH/SOCI 3349 (Globalization and Social Change)..
- IV. Required enrollment during each semester of residence in the minor in INTL 3100 (International Studies Colloquium). Course may be repeated for 6 hours, only 3 of which maybe applied to the minor.
- V. Concentrations (12-15 hours including courses taken while abroad). International Studies concentrations are individual programs of study that are designed by students in consultation with the appropriate concentrations adviser. A student may propose courses from the concentration list (below), or with the approval of the adviser and program director, from among courses taken abroad or unlisted courses taken while at Trinity.
- V At least 9 hours must be upper division.

European Studies: Professors Nanette Le Coat*, Heather Sullivan

Mexico, the Americas, and Spain Program: Professor Aaron Navarro

Middle East Studies: Professors David Lesch, Sussan Siavoshi

International Affairs: Professor Rosa Aloisi

International Environmental Studies: Professors Richard Reed, David Ribble*

Global Heal Studies: Professors Robert Blystone*, Alfred Montoya

The Senior Experience

The Senior Experience offers various ways for students to reflect on and unify their interdisciplinary coursework in International Studies.

Languages Across the Curriculum Program

Qualified Trinity students are eligible to enroll in the Languages across the Curriculum (LAC) Program, which gives them practice in using professional and academic Spanish, Portuguese, Chinese, Russian, German, or French in special courses in the humanities, social, and natural sciences. Some of these courses are coordinated with existing upper-division courses that are taught in English, and students may enroll in both. Other LAC courses are taught separately as stand-alone courses. All LAC courses make extensive use of the target foreign language and most use it as the medium of instruction. Offerings vary from semester to semester and are listed in the pre-registration course schedule under International Studies.

Students may earn a Spanish across the Curriculum certification by successfully completing advanced work in Spanish and a series of courses listed in the Spanish across the Curriculum Program. This certification will be indicated on the student's official transcript. The requirements are:

- I. SPAN 3301 (Advanced Grammar) or the equivalent
- II. 3 credit hours of upper-division Spanish electives
- III. 4 Spanish across the Curriculum courses or 7 credit hours in Spanish across the Curriculum courses

Concentration Course Requirements

Concentrations (*coordinator and head adviser)

African Studies (Professor Anene Ejikeme*)

African Studies focuses on the study of the historical experience of the peoples of Africa as well as the social, political, economic, and religious institutions and practices of Modern African states. The concentration invites exceptional students to combine courses at Trinity with study abroad to address in an integrative fashion the evolution of the African experience.

Requirements: Eighteen hours, including at least one semester of study abroad in Africa. Students will satisfy the International Studies language requirement as noted below. Students may substitute courses abroad or other special course offerings for comparable courses in the Concentration list.

Language (6-9 hours): Will be satisfied by either of the following options:

6 hours in an African language, which may include Arabic OR

6 upper-division hours in French or Portuguese and at least 3 hours in the study of an African language, which may include Arabic

Concentration Courses (9-12 hours): Selected from the following lists:

Required Course List (3 hours)

HIST 3300	Gender Matters in African History
HIST 3304	Religion in African History

History and Religion List (3 hours)

HIST 1300	The African Experience
HIST 1350	Medieval Islamic History, 570-1517
HIST 3384	Slavery and the Atlantic Economy
RELI 3443	Islamic Worlds

Anthropology and Political Science List (3 hours)

ANTH 3358	The Anthropology of International Relations
PLSI 1332	Film, Literature, and Politics of the Third World

Special Topics courses from departments may be included as concentration courses when topics pertain to Africa.

Study Abroad (6-9 hours): To be taken while studying abroad, selected in consultation with the concentration coordinator. Note: These hours do not include the hours devoted to international travel.

CHIN 3433	Chinese Religions: Unity and Diversity (also listed as RELI 3433)
PHIL 3428	The Philosophies of China (also listed as CHIN 3428)
RELI 1330	Asian Religions
RELI 3432	Buddhist Ecology
RELI 3433	Chinese Religions: Unity and Diversity (also listed as CHIN 3433)
RELI 3434	Japanese Literature of the Spirit World

Art History

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)
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Languages across the Curriculum Courses

INTL 3301	Paris: La biographie d'une ville (Paris: The Biography of a City)
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
SPAN 3311	Spanish Civilization
SPAN 3331	Introduction to Spanish Literature
SPAN 4334	Nineteenth-Century Spanish Literature
SPAN 4336	Twentieth-Century Spanish Literature

Music

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

Philosophy

PHIL 3422	Classical Modern Philosophy
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PHIL 3423	German Idealism
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Political Science

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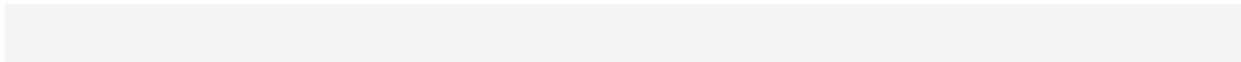
Religion

RELI 3441	Creating Judaism
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RELI 3442	The Christian Tradition
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RELI 3443	Islamic Worlds
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Sociology and Anthropology

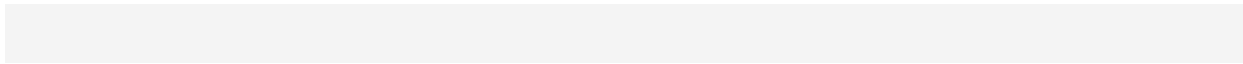
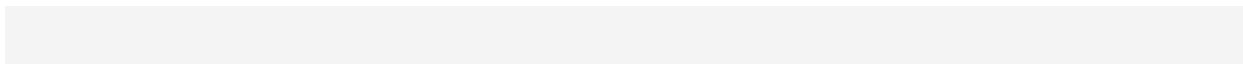


ARTH 3355	Pre-Columbian Art of Mesoamerica (also listed as ANTH 3357)
ARTH 1412	Art and Architecture of Latin America since the 16th Century
ARTH 3345	Spanish Colonial Art and Architecture in Mexico
ARTH 3354	Mexico City
ARTH 3461	Public Art across the Border
COMM 3120	La Telenovela en America Latina (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 artísticas 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 Latinoamérica (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	



SOCI 3343	Relaciones Fronterizas México-Estados Unidos (also listed as NATH 3343 and INTL 3343)
SPAN 4338	Spanish Women Writers
SPAN 4348	Spanish American Women Writers
SPAN 4349	Sexualities in Literature and Film
SPAN 4351	Transnational Mexican Popular Culture
SPAN 4391	Gender and Violence in Spain

Middle East Studies (Professors David Lesch and Sussan Siavoshi)

For the major concentration in Middle East Studies, students must take 15-18 hours. After fulfilling the specific course requirements of the concentration (below), students may take additional courses from the concentration list or substitute courses taken while abroad or other special course offerings subject to the approval of the concentration coordinator and the International Programs director.

Majors in this concentration must take:

- I. HIST 1350 Medieval Islamic History, 570-1517 or HIST 1351 The Modern Middle East
- II. PLSI 3334 State, Society and Change in the Middle East or PLSI 3344 The Middle East and the World

For the minor concentration in Middle East Studies, students must take 12-15 hours. After fulfilling the specific course requirements of the concentration (below), students may take additional courses from the concentration list or substitute courses taken while abroad or other special course offerings subject to the approval of the Concentration coordinator and the International Programs director.

Minors in this concentration must take:

HIST 1350	Medieval Islamic History, 570-1517 or HIST 1351 The Modern Middle East
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Trinity courses for the Middle East Studies concentration (major or minor) include:

History

HIST 1350	Medieval Islamic History, 570-1517
HIST 1351	The Modern Middle East
HIST 3350	The Arab Cultural Tradition

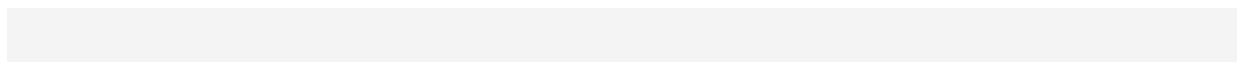
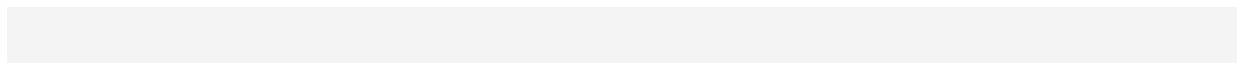
HIST 3354 The Persian-Arabian Gulf Region Since 1500

Political Science

PLSI 3334 State, Society, and Change in the Middle East

PLSI 3344 The Middle East and the World

Religion



Two courses in POLITICAL SCIENCE

PLSI 1331	Global Politics
PLSI 3331	Comparative Political Economy of North America, Europe, and East Asia
PLSI 3342	International Law
PLSI 3345	U.S. Foreign Policy
PLSI 3346	War and Alliance

Two courses from the following:

ANTH 2357	Humans and the Environment
ANTH 3345	Understanding Refugees
ANTH 3445	International Issues in Health and the Environment
ANTH 3453	Global Cities
ANTH 3464	Morality in the Marketplace
COMM 3322	International Communication (also listed as HCOM 3374)
ECON 3320	Economics and the Environment
HIST 3339	The World War II Era
HCOM 3374	International Communication (also listed as COMM 3322)

Students may substitute courses taken while abroad or special course offerings for comparable courses in the areas listed below, subject to the approval of the concentration coordinator and the International Programs director.

International Environmental Studies

(Professors Richard Reed and David Ribble*)

Students must take 15-18 hours from the following list, or from among courses taken while abroad, or from among special course offerings subject to the approval of the concentration coordinator and the International Programs director. The student must take at least one course in each of the following topical areas: economics, natural resource science and management, and humans and their environment.

Economics Area

Economics

ECON 3330	Economics and the Environment (also listed as URBS 3330)
URBS 3330	Economics and the Environment (also listed as ECON 3330)

Natural Resource Science and Management Area

Biology

BIOL 1311	Integrative Biology I
BIOL 3434	Ecology
BIOL 4351	Conservation Biology

Geosciences

GEOS 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
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Geosciences

GEOS 1304	Environmental Geology
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Physics and Astronomy

PHYS 1302	Frontiers of Physics
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PHYS 1303	The Earth's Changing Environment
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Sociology and Anthropology

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

URBS 3347	Urban Systems
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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

Students may earn a Spanish across the Curriculum certification by successfully completing advanced work in Spanish and a series of courses listed in the Spanish across the Curriculum program. This certification will be indicated on the student's official transcript. The requirements are:

- SPAN 3301 (Advanced Grammar) or the equivalent
- 3 credit hours of upper-division Spanish electives
- 4 Spanish across the Curriculum courses or 7 credit hours in Spanish across the Curriculum courses

Courses

INTL-1100 International Student Orientation

A one-credit course to assist new international students in successfully adjusting to Trinity University. It will provide: 1)an overview of the U.S. higher education system, including basic student and faculty roles; 2)a review of key academic differences with other educational systems from around the world; 3)an introduction to cultural adjustment and culture shock; and 4)a review of laws and legal structures that affect immigration status. Assignments may include readings, interviews of students, staff members, and faculty, and brief reports and reflexive essays. The course is required of all incoming, first-year international students who are not U.S. citizens

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-3103 Returning From Study Abroad

A one-credit course for students returning from study abroad that is designed to help students maximize the benefit of their study abroad experiences and to help them readjust to the U.S. and university culture. Students will

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; pre-departure 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

An exploration of themes of gender, sexuality, and identity as approached by the most distinguished women filmmakers in Spain and the Americas. The films covered in this course do not duplicate any materials covered in SPAN 3321 or SPAN 3331. Prerequisite: SPAN 2302 or equivalent.

LAC-3102 En Blanco Y Negro: Raza Y Cine En America Latina

An examination and analysis of Latin American films in terms of the performance and representation of race. The course introduces discourses of whiteness and mestizaje in terms of the hierarchies and social expectations that they advanced through film. Course is taught entirely in Spanish. Prerequisites: SPAN 2302 or equivalent

LAC-3103 Cultura Popular Espanola (spanish Popular Culture)

Spanish Popular Culture focuses on recent cultural production that includes film, television, periodicals, and recently published literature. This course is taught in Spanish and students will gain practice in reading, writing, speaking, and listening comprehension. Prerequisite: SPAN 2302, the equivalent, or Consent of Instructor

LAC-3104 La Experiencia Latina En Los Estados Unidos (The U.S. Latino Experience)

An examination of the historical experience and cultural expression of the Latino population of the United States, with attention to the role of U.S. foreign policy in creating Latino communities, the impact of domestic policy on the various subgroups, the evolution of U.S. Latino cultural expression, and the changing relationship of Latinos to U.S. society and its institutions. This course will be taught entirely in Spanish and is designed to accompany GNED 3325. Prerequisites SPAN 2302, the equivalent, or the consent of the instructor; and students must have 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. (Cross-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 personal and/or national histories. Readings will be in Spanish, but discussions will be in both English and Spanish depending on the proficiency of class members. Prerequisite: SPAN 2302 or equivalent Corequisite: Concurrent or previous enrollment in HIST 1340

LAC-3109 Madrid: Una Historia Cultural

This course explores significant cultural, cinematic, musical, sociopolitical, urban, theoretical, and literary representations of the city of Madrid. The interdisciplinary approach draws on film, music, and television as well as literary, critical, and theoretical texts. Prerequisites: SPAN 2302 or equivalent

LAC-3110 La musica popular latinoamericana (Latin American Popular Music)

A study of Latin American culture through popular music, this course will explore both musical forms and lyrics. Musical forms include bolero, tango, balada, cumbia, salsa, rumba, merengue. The multilayered messages in the lyrics will be analyzed for social and political insights into Latin American culture. This course will be conducted entirely in Spanish. Prerequisite: SPAN 2302, the equivalent, or consent of instructor.

LAC-3111 Narody Rossii (The Peoples of Russia)

A companion course to ML&L 3342, which introduces Russian culture from medieval through modern times, including not only the Russians, but also the peoples of southern and eastern Russia. The course will emphasize religion, folklore, and art through a series of short Russian-language readings and weekly discussions. The course will be conducted entirely in Russian. Prerequisite: RUSS 2302 or the equivalent. INTL 3111 is designed to be taken concurrently with ML&L 3342, (The Peoples of Russia), although it may be taken separately with consent of the instructor.

LAC-3112 Shangye Zhongwen (The Practice of Business in China)

A study of cultural concepts and customs that have influenced contemporary Chinese business practices and behaviors, through the use of readings and weekly discussions. The course will be conducted entirely in Chinese. Prerequisite: CHIN 2302 or the equivalent.

LAC-3113 Reality TV in China

This course explores Chinese language, society, and culture through the lens of reality television audition tapes submitted to "Chinese Idol." Video clips are unscripted and spontaneous conversations that represent individuals from a variety of social, economic, and cultural backgrounds. (Offered every other year). Prerequisites: CHIN 2302 or equivalent

LAC-3114 Zhongguo Gudai Sixiang (Classical Chinese Thought)

A study of traditional Chinese thought as manifested in the language of selected classical texts of history,

This 3-hour regular course will survey major events and characters that have shaped Latin American history in the 20th century using musical renditions deeply rooted in the collective memory of Latin Americans. Prerequisite:

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 Quanjie Shangwu Wenhua-Zhong-Mei Jiaodian (Global Business Culture)

A companion course to BUSN/CHIN 3330 which examines the diverse business culture in China in comparison to that in other countries, particularly in the United States. This course must be taken concurrently with BUSN/CHIN 3330 and will be taught entirely in Chinese. Students must have the ability to write and converse in Chinese. (Also listed as CHIN 4130 and BUSN 4130) Prerequisites: Senior Standing, CHIN 3302 or the equivalent, and consent of instructor Corequisite: BUSN/CHIN 3330

LAC-4-02 Special Topics in Languages Across the Curriculum

From time to time the LAC program will present special topic courses not described in the Courses of Study Bulletin. Announcements of such courses will be by special prospectus. May be repeated on different topics.

Linguistics

Faculty

[Jane Childers, Ph.D.](#) , Professor, Psychology; Director

[Rocio Delgado, Ph.D.](#) , Associate Professor, Education

[Andrew Hansen, Ph.D.](#) , Associate Professor, Human Communication and Theatre

[Mark C. Lewis, Ph.D.](#) , Professor, Computer Science

HCOM 1310	Applied Linguistics (also listed as LING 1310)
LING 1300	Foundations of Linguistics (also listed as HCOM 1305)
LING 1310	Applied Linguistics (also listed as HCOM 1310)

Acquisition

PSYC 2330	Fundamentals of Cognition
PSYC 3321	Cognitive Development

Syntax

FREN 3301	Advanced Grammar
GERM 3301	Advanced German I
LATN 3301	Latin Prose Composition
MATH 3326	Introduction to Abstract Mathematics
RUSS 3301	Advanced Russian I
RUSS 3302	Advanced Russian II
SPAN 3301	Advanced Grammar

Semantics

PHIL 3433	Philosophy of Language
HCOM 3352	R o Abstr

PSYC 3431	Memory and Cognition
PSYC 3360	Special Topics in Psychology: Language Development

Sociology and Anthropology

ANTH 3331	Language, Culture, and Society (also listed as SOCI 3331)
ANTH 3332	Intercultural Communication (also listed as HCOM 3372)

Spanish

SPAN 3303	Spanish Phonetics and Phonology
SPAN 3371	Introduction to Romance Linguistics (also listed as CLAS 3371, FREN 3371, ITAL 3371, and LING 3371)

Departmental topics courses, readings courses, and seminars on linguistic topics are acceptable as approved by the Linguistics Committee chair.

Courses

LING-1300 Foundations of Linguistics

Examines the foundations of human language including its phonology, morphology, syntax, and semantics. (Also listed as HCOM 1305.)

LING-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 HCOM 1310.)

LING-3-90 Directed Studies - Junior Level

Independent work under faculty supervision. The nature of the project will be agreed upon by the student and participating faculty member prior to registration. Credit varies from 1 to 4 semester hours, depending on the scope of the project. Prerequisite: Consent of Instructor

LING-4-90 Directed Studies - Senior Level

Independent work under faculty supervision. The nature of the project will be agreed upon by the student and

participating faculty member prior to registration. Credit varies from 1 to 4 semester hours, depending on the scope of the project. Prerequisite: Consent of Instructor

Mathematics

Faculty

[Eduardo Cabral Balreira, Ph.D.](#) , Associate Professor

[Ryan C. Daileda, Ph.D.](#) , Associate Professor

[Saber N. Elaydi, Ph.D.](#) , Murchison Term Professor of Mathematics

[Julio Roberto Hasfura-Buenaga, Ph.D.](#) , Associate Professor; Acting Chair

[Eddy Kwessi, Ph.D.](#) , Associate Professor

[Natasa Macura, Ph.D.](#) , Associate Professor

[Brian K. Miceli, Ph.D.](#) , Associate Professor

[Hoa Nguyen, Ph.D.](#) , Associate Professor

[Peter Olofsson, Ph.D.](#) , Professor

[Diane G. Saphire, Ph.D.](#)

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

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 determines that the applicant meets the following requirements:

MATH-1305 Mathematics for Business and Economics

The focus of the course will be to master mathematical principles such as derivatives and integrals and how these are related to applications for business and economics. Students will learn about mathematical rigor, basic algebraic properties of sets and functions. The course will also cover topics on optimization, the mathematics of finance, and introduce students to basic ideas of operations research, such as systems of linear equations and linear programming. No student who has completed MATH 1312 may register for this course.

MATH-1311 Calculus I

A study of functions including transcendental and trigonometric: Limits and continuity; differential and integral calculus; and applications. Prerequisite: Successful completion of either MATH 1301 or the equivalent. Students who have completed the equivalent of MATH 1301, as opposed to taking MATH 1301 at Trinity, must take the Mathematics Placement Exam to determine readiness for this course.

MATH-1312 Calculus II

A study of methods of integration, series, and an introduction of differential equations. (Offered every semester). Prerequisite: MATH 1311 or the equivalent.

MATH-1320 Statistical Methods

Methods of analyzing data, statistical concepts and models, estimation, tests of significance, and regression. MATH 1320 and 3320 cannot both be taken for credit. Prerequisite: MATH 1311, or equivalent.

MATH-1330 Introduction to Modern Mathematics

A survey of modern mathematics. Topics to include infinity and infinities, the fourth dimension, fractional dimensions, fractals and chaos, pitfalls of statistics, and objects with fewer than the expected number of sides.

MATH-2117 Sports Analytics Seminar

This course introduces basic tools used by data scientists in the field of Sports Analytics. The course covers the principles of research methodology used to gather and clean databases. It also explores basic methods in the mathematical theory of sports analytics such as ranking methods and predictive analysis of outcomes. (Offered every semester). Prerequisites: MATH 1305 or MATH 1311 or Consent of instructor

MATH-2308 Introduction to Analytical Models

An introduction to the formulation, interpretation, and predictive analyses of models arising in the life, physical, or social sciences. Mathematical topics will include differential equations modeling with continuous and discrete time models, linear algebra models, regression analysis, and introduction to standard models in Big Data such as

ranking systems and recommendation systems. The necessary mathematical and scientific background will be developed as needed. (Offered every Spring) Prerequisites: MATH 1305 or MATH 1311

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

MATH-3327 Probabilistic Models in Life Sciences

An introduction to probabilistic modeling with emphasis on its use in biology. Fundamental concepts such as conditional probability and conditional expectation are studied in depth in order to prepare for an introduction to the theory and applications of Markov chains. Applications in biology may include birth-and-death processes, branching processes, sequence alignment, population genetics, epidemic processes, molecular evolution, and phylogenetic tree construction. (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 epidemiological models. The integrated laboratory experience consists of several experiments on model organisms such as bacteria and protists. In addition, human epidemiological data will also be utilized. (This course or MATH 3327 will be offered every other year) Prerequisite: MATH 1311 and 1312.

MATH-3334 Probability

This course covers the basic concepts of probability, including counting methods, events, conditional probability, discrete and continuous random variables and their distributions, multivariate distributions, commonly used discrete and continuous distributions, functions of random variables, expectation, variance, and correlation. Fall

Formulation, analysis, and interpretation of models arising in the life, physical, or social sciences. The actual source for the models will depend upon the interests of the instructor. Mathematical topics will include one or more of the following areas: linear algebra, differential equations, difference equations, numerical analysis, statistics, stochastic processes, and optimization. (Offered every Fall.) Prerequisites: MATH 2321; CSCI 1320 or knowledge of computer programming; or consent of instructor.

MATH-3341 Number Theory I

A study of the arithmetic properties of the ring integers. Topics may include factorization, modular arithmetic, solution of polynomial congruences, the law of quadratic reciprocity, Diophantine equations, and applications to cryptography. Prerequisite: MATH 3326 or consent of instructor.

MATH-3343 Combinatorics I

MATH-3359 Difference Equations

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 will be required to submit computer solutions to several mathematical problems. They will also be required to read

a referred mathematics journal article and present their findings in both written and oral form. Attendance at the majors seminar (MATH 2094) is required. Prerequisite: MATH 3194

MATH-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

Additional topics may include conformal mappings, analytic continuation, Rouché's theorem, and infinite products. Fall, alternate years. Prerequisites: MATH 3360 or Consent of Instructor.

MATH-4365 Topology

Introduction to the study of basic topological concepts including topological spaces, continuous functions, homeomorphisms, separation properties, connectedness, and compactness. Additional topics may be chosen from algebraic or geometric topology. Fall, alternate years. Prerequisite: MATH 3360 or 3362, or consent of instructor.

MATH-4367 Dynamical Systems

Topics beyond MATH 3336, which may include chaos theory, bifurcation, and discrete continuous systems. Offered occasionally Prerequisites: MATH 3360 and 3336, or consent of instructor.

MATH-4391 Special Topics

This course will treat special topics not covered by courses described in the Courses of Study Bulletin. Announcements of such courses will be by special prospectus. This course may be repeated for credit on different topics.

MATH-4194 Majors' Seminar II

Seminar for senior majors. Seniors write reports on lectures and present senior projects. May be repeated for a maximum of two credit hours.

MATH-4394 Senior Project

Independent project under faculty supervision. Oral and written presentation of results and attendance at the majors' seminar (MATH 2094) are required. Prerequisite: MATH 3195 and senior standing

MATH-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. Prerequisite: Senior Standing.

MATH-4399 Honors Thesis

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

Medieval and Renaissance Studies

Faculty

[Laura Agoston, Ph.D.](#) , Associate Professor, Art History

[Douglas Brine, Ph.D.](#) , Associate Professor, Art History; Co-director

[Damian Caluori, D.Phil.](#) , Associate Professor, Philosophy

[Andrew Kraebel, Ph.D.](#) , Assistant Professor, English

[Nicole Marafioti, Ph.D.](#) , Associate Professor, History; Co-Director

[Willis Salomon, Ph.D.](#) , Associate Professor, English

Overview

The minor in Medieval and Renaissance Studies is an interdisciplinary program with the following objectives: (a) discovery and re-examination of knowledge about the Middle Ages and the Renaissance and (b) employment of a variety of methods of historical and theoretical analysis as models for such scholarship.

Completion of this program will be indicated on the student's transcript with the notation Minor in Medieval and Renaissance Studies.

Students interested in a Medieval and Renaissance Studies minor should contact the director of the Medieval and Renaissance Studies Program.

Requirements

The requirements for a minor in Medieval and Renaissance Studies are as follows:

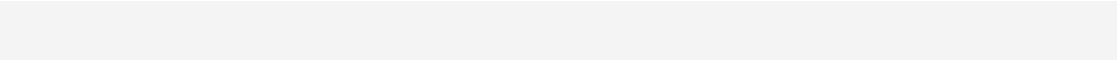
- I. A minimum of 18 credit hours:
 - a. At least 12 credit hours must be fulfilled by courses in the Primary Curriculum, including at least 3 of the following courses in 3 different disciplines:

ARTH 1314	Art and Architecture of Medieval Europe (M)
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ARTH 3344	Northern Renaissance Art in the Sixteenth Century (R)
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ARTH 3441	Early Renaissance Art in Italy (R)
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ARTH 3442	High Renaissance and Mannerist Art in Italy (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)



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 345 RELI 3443	3 a7 Islamic Worlds Testau

THTR 3333

Mathematical Finance

Faculty

[Eduardo Cabral Balreira, Ph.D.](#) , Associate Professor, Mathematics

[Julio Roberto Hasfura-Buenaga, Ph.D.](#) , Associate Professor, Mathematics

[John H. Huston, Ph.D.](#) , Professor, Economics; Director

[Ricardo Manuel Santos, Ph.D.](#) , Associate Professor, Economics

[Eugenio Dante Suarez, Ph.D.](#) , Associate Professor, Finance and Decision Sciences

[Shage Zhang, Ph.D.](#) , Assistant Professor, Finance and Decision Sciences

Overview

The Mathematical Finance major is an interdisciplinary study of financial markets. Increasingly, firms of all types, and financial institutions in particular, rely on sophisticated mathematical models to understand financial markets, to evaluate financial instruments, and to measure and manage risk. To understand and utilize these models, students need specific capabilities that can be only gained from study in the fields of economics, finance, and mathematics. The major is specifically designed for students considering graduate studies and careers in Finance, Applied Financial Economics, Mathematical Finance, Applied Mathematics, or Actuarial Science.

Requirements

The Major

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

1. Required Courses

ACCT 1301	Fundamentals of Financial Accounting
FNCE 3301	Financial Administration of Business Firms
ECON 1311	Principles of Microeconomics
ECON 1312	Principles of Macroeconomics
ECON 3325	Intermediate Microeconomics
ECON 4367	Advanced Microeconomic Theory

ECON 4370	Econometrics
MATH 1311	Calculus I
MATH 1312	Calculus II
MATH 2321	Calculus III
MATH 1320	Statistical Methods*
MATH 3370	Mathematical Finance
MATH 3316	Differential Equations and Linear Algebra
* MATH 3334	Probability, may be substituted for MATH 1320. That substitution is essential for those seeking a career in actuarial science.

2. Three Additional Elective Courses from the following:

FNCE 3351/ECON 3356	Financial Institutions and Markets
FNCE 3352	Investment Principles and Analysis
FNCE 3353	Student Managed Fund I
FNCE 3361/ ECON 3361	International Finance
FNCE 4351	Financial Management and Policy
FNCE 4362	Derivatives

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

For full admission into the major, students must have credit for Calculus II (MATH 1312), Financial Accounting (ACCT 1301) and Principles of Macroeconomics (ECON 1312) with a grade of at least a C in each. Students who have not yet completed those three classes may still declare the major but are provisionally accepted.

Courses

MFIN-3-71 Internship

Internships may be arranged with businesses, nonprofit institutions, and government agencies. The job must include analysis based on tools learned in the course of completing the MFIN major. The workload requirements are expected to be similar to those of typical MFIN courses carrying the same number of hours of credit. Must be taken pass/fail. Prerequisites: ACCT 1301, ECON 1312, MATH 1312 and permission of the program chair.

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

- [Chinese](#)
- [French](#)
- [German Studies](#)
- [Russian](#)
- [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. The lower division courses, or the equivalent, and at least 3 credit hours of upper division courses in a second foreign language.
- C. Completion of at least one semester or summer abroad in a Chinese-speaking country.

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. The lower division courses, or the equivalent, and at least 3 credit hours of upper division courses in a second foreign language.

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

German Studies

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

I. Departmental requirements:

- A. Completion of 21 hours of coursework taught in German at the level of GERM 2302 or higher, including GERM 3301 and either GERM 3305 or GERM 3306.
- B. Completion of 9 additional hours of upper-division German (GERM) or of any of the accepted German Studies courses taught in English (GRST).

The accepted German Studies courses are as follows:

GRST 1314	Art and Architecture of Medieval Europe (also listed as ARTH 1314)
GRST 2332	Play Structure and Analysis (also listed as THTR 2332)
GRST 2432	European Frontiers, 1848-Present (also listed as HIST 2432)
GRST 2352	Acting II: Scene Study (also listed as THTR 2352)
GRST 3401	Yiddish Language, Culture, and Film (also listed as ML&L 3401)
GRST 3307	Berlin: From Cabarets to Communists

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.

No credit will be given for any prerequisite course in the four-semester lower-division sequence once a student has received credit for a more advanced course.

Courses

Modern Languages and Literature

ML&L-1301 Introduction to Film Studies

This course is an introduction to the artistic, cultural, and scholarly importance of film. The course focuses on the development of film as a complex art form, the evolution of narrative as part of a formal system, the development of the industry and film genres, critical and cultural approaches to film analysis, and the construction of the audience. Students will read excerpts from primary texts as well as more general texts dealing with film interpretation and criticism. (Also listed as FILM 1301, ARTH 1301, COMM 1302).

ML&L-1303 Japanese Perspectives

This course introduces the student to Japanese culture in its religious, political, aesthetic, and social dimensions especially as each is affected by Western influences. (Also listed as ANTH 1303 and GNED 1303.)

ML&L-2301 International Cinema

This course focuses on the cultural and critical analysis of international films as an expression of particular artistic genres and/or styles within specific historical, ideological, and cultural contexts. Films selected have achieved

Sophomore standing or above.

ML&L-3330 Japanese Literature in Translation

Japanese culture through the major works in Japanese literature and its major religions, Shinto and Buddhism. The interrelationship of the art/architecture is also highlighted. Reading include early poetry and novels, the rise of drama, haiku, and twentieth century novels.

ML&L-3340 Russian Literature in Translation I

A study of major works of Russian literature from the early 1900s. RUSS 3305 and ML&L 3340 cannot both be taken for credit.

ML&L-3341 Russian Literature in Translation 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.

ML&L-3342 The Peoples of Russia

An introduction to Russian culture from medieval through modern times, including not only the Russians, but also the peoples of southern and eastern Russia. The course will emphasize religion, folklore and art. 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 Jewery in its pre-Holocaust homelands and its countries of immigration. Language pedagogy, scholarship and film will be vehicles of entry into the universe of a language classified by UNESCO as "seriously endangered." (Offered occasionally).

CHIN-1402 Elementary Chinese II

Modern Standard Chinese (Mandarin). 4 class hours a week. (Not open to native speakers of Mandarin.)
Prerequisite: CHIN 1401 or the equivalent.

CHIN-2401 Intermediate Chinese I

Modern Standard Chinese (Mandarin). 4 class hours a week. (Offered every semester) Prerequisite: CHIN 1402 or the equivalent.

CHIN-2402 Intermediate Chinese II

Modern standard Chinese (Mandarin). 4 class hours a week. (Offered every semester) Prerequisite: CHIN 2401 or the equivalent.

CHIN-2311 Chinese Civilization

A topical approach to the study of both traditional and modern Chinese thought systems, with readings drawn mainly from original sources in translation. Course taught in English.

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-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 1320) 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 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 ARTH 3376.) (Offered every Spring)

CHIN-3428 The Philosophies of China

A study of the three major indigenous philosophical movements in China: Confucianism, Taoism, and Neo-Confucianism. Special attention will be paid to themes and problems common to all three movements, including: the metaphysics of harmony and conflict, the individual and society, the cultivation of human virtues and human perfectibility, and humankind's relation to nature. Course taught in English (Also listed as PHIL 3428) Prerequisite: Any course in Philosophy or consent of instructor

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 UR3. listed lee C5 his course. 0

CHIN-4364 Internationalizing Intellectual Property

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

CHIN-4-91 Selected Topics

Special study in fields not covered by other courses. Variations in credit according to work performed, from 1-6 hours. May be taken more than once, provided topics vary.

CHIN-4-90 Reading and Conference

Individual work under faculty supervision not covered by other courses. Prerequisites: 6 upper division hours in Chinese and approval of Department Chair.

CHIN-4397 Chinese Internship

Supervised activities in Chinese appropriate to the students' abilities and interest. In the case of local internships, this will include periodic on campus meetings with the internship supervisor to integrate internship experience with study of Chinese language. Internships abroad will require periodic reports by email or facsimile. All internships must lead to the creation of a final product such as an oral or written report. Up to 3 credits. Pass/Fail. Prerequisites: Approval of internship supervisor.

French - Lower Division

FREN-1401 Elementary French I

4 class hours a week for one semester.

FREN-1402 Elementary French II

4 class hours a week for one semester.

FREN-2301 Intermediate French I

Prerequisite: FREN 1402 or equivalent.

FREN-2302 Intermediate French II

Prerequisite: FREN 2301 or the equivalent.

French - Upper Division

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

A study of major works of French literature from the nineteenth century to the present in the context of Western literary, political, and cultural history, and literary criticism. Prerequisite: FREN 2302 or consent of instructor.

FREN-3371 Introduction to Romance Linguistics

A study of the science of language as it applies to those tongues having their origin in spoken Latin, principally French, Italian, Portuguese, Rumanian, and Spanish. Attention will be given both to historical developments and to

the current situations of such languages. (Same as CLAS 3371, ITAL 3371, and SPAN 3371). Prerequisite: two years or the equivalent of Latin, Ancient Greek, or a Romance language.

FREN-3-98 Honors Readings

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

FREN-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

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

This course will introduce students to multiple theatrical models and methods used to understand dramatic structure and to analyze specific plays. This course seeks answer the question: How can we discover the ways in which plays work? (Also listed as THTR 2332)

GRST-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 HIST 2432.) (Offered every other year).

GRST-2352 Acting II: Scene Study

This course will focus on scene work from a variety of periods and playwrights, and in-class exercises to further the acting student's ability. (Also listed as THTR 2352). Prerequisite: THTR 1350 or 1352 and at least Sophomore standing or consent of instructor

GRST-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 Jewery in its pre-Holocaust homelands and its countries of immigration. Language pedagogy, scholarship and film will be vehicles of entry into the universe of a language classified by UNESCO as "seriously endangered." (Offered occasionally).

GRST-3307 Berlin: From Cabarets to Communists

This course examines Berlin's urban development and representation in art and literature from 1900 to the present. Students will explore how the city was made into a showpiece by governments with different ideologies and how writers and artists have represented it as a site of political and social struggle.

GRST-3310 German Cinema

This course will examine German films from the silent period in the early 1920's to the present. The course will introduce basic concepts of critical film analysis, while also examining the history of German cinema, how cinema conveys meaning, and how German culture and history are reflected in films.

GRST-3311 Fairy Tales

This course studies German fairy tales within the broad context of tales from around the world. Taught in English

GRST-3315 Decadence: German Literature Around 1900

instructor.

GRST-3343 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 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

Two years or the equivalent of Latin, Ancient Greek, or a Romance language.

ITAL-4-90 Selected Topics

Special study in fields not covered by other courses. Variations in credit according to work performed, from 1-6 hours. Prerequisites: ITAL 2302.

Russian - Lower Division

RUSS-1401 Elementary Russian I

4 class hours a week.

RUSS-1402 Elementary Russian II

4 class hours a week. Prerequisite: RUSS 1401 or the equivalent.

RUSS-2301 Intermediate Russian I

Prerequisite: RUSS 1402 or the equivalent.

RUSS-2302 Intermediate Russian II

Prerequisite: RUSS 2301 or the equivalent.

Russian - Upper Division

RUSS-3301 Advanced Russian I

An intensive review of Russian grammar, including grammatical exceptions and advanced material not covered in earlier courses. The course will consist of written and oral exercises and reading materials that illustrate the grammar. Prerequisite: RUSS 2302 or the equivalent.

RUSS-3302 Advanced Russian II

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

The study of a major genre such as the novel, drama, poetry, or the short story. May be taken more than once, provided topics vary. Prerequisite: RUSS 2302 or the equivalent.

RUSS-4310 Seminar in Russian Literature

The in-depth study of a single theme, movement, or author in Russian literature. May be taken more than once, provided topics vary. Prerequisite: RUSS 2302 or the equivalent.

RUSS-4-90 Readings and Conference

Individual work under faculty supervision in areas not covered by other courses. Prerequisites: RUSS 2302 or the equivalent and approval of 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 to the preparation of an Honor Thesis. To be taken only by senior Honors students in both semesters of their senior year.

Emphasis on study of style and vocabulary. Written and oral reports in Spanish. Prerequisite: SPAN 2302 or the equivalent.

SPAN-3303 Spanish Phonetics and Phonology

An introduction to Spanish phonetics and phonology involving both theoretical bases and practical applications. Prerequisite: SPAN 3301 or the equivalent, or consent of instructor.

SPAN-3311 Spanish Civilization

A survey of the social, political, and culture history of Spain. Prerequisite: SPAN 2302 or the equivalent or consent of instructor.

SPAN-3312 Latin American Civilization

A topical approach to the study of the area of Latin America, with readings and lectures on people and landscape, races, revolution, and reform, and expression through art. Prerequisite: SPAN 2302 or the equivalent, or consent of instructor.

SPAN-3321 Spanish Cinema

An examination of a variety of Spanish films from 1960 to the present with a focus on their artistic qualities, the history of Spanish cinema, and the depictions of Spanish culture and literature in the films. Prerequisite: SPAN 2302 or the equivalent, or consent of instructor.

SPAN-3322 Spanish American Cinema

An examination of a variety of Spanish American films with a focus on their artistic qualities, the history of Spanish American cinema, and the depictions of Spanish American culture and literature in the films. Prerequisite: SPAN 2302 or the equivalent, or consent of instructor.

SPAN-3330 Introduction to Spanish Literature to 1700

An examination of major literary movements, authors, and works of Spanish Peninsular literature from the Middle Ages to 1700. Prerequisite: 3 upper division hours in Spanish or consent of instructor

SPAN-3331 Introduction to Spanish Literature Since 1700

An examination of major literary movements, authors and works of Spanish Peninsular literature from 1700 to the present. Prerequisite: 3 upper division hours in Spanish or consent of instructor.

SPAN-3332 Introduction to Spanish American Literature

An examination of major literary movements, authors and works of Spanish American literature from 1492 to the present. Prerequisite: SPAN 3301, 3302, or consent of instructor.

SPAN-3346 La economía española y la Unión Europea (The Spanish Economy and the European Union)

An examination of Spain's economic development and its position within the European Union. The business, economic, and political transformation of Spain from a struggling nation with an authoritarian regime to an economic power with an open and democratic society are studied. The course also examines the development of 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, LAC 3346, and ECON 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.

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)

SPAN-3398 Honors Reading

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

SPAN-4331 Medieval Spanish Literature

A study of the masterpieces of medieval Spanish literature up to 1500. Prerequisite: SPAN 3330 or SPAN 3331 or consent of instructor.

SPAN-4332 Spanish Golden Age: Drama

A study of major works of Spanish Golden Age drama. Prerequisite: SPAN 3330 or SPAN 3331 or consent of the 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.

SPAN-4348 Spanish American Women Writers

A study of important works by Spanish American women authors with emphasis on the place of these texts in the larger Spanish American literary tradition. Prerequisite: SPAN 3332 or the equivalent, or consent of instructor.

SPAN-4349 Sexualities in Literature and Film

A study of contemporary literary and cinematographic works by authors focused on issues of gender and sexuality. This course will be taught in Spanish. Prerequisites: SPAN 3331 and 3332 or the equivalent, or consent of instructor.

Music

Faculty

[Brian Bondari, D.M.A.](#) , Associate Professor

[Kenneth Greene, D.M.A.](#) , Professor

[David Heller, D.M.A.](#) , Professor; Chair

[Carl Leafstedt, Ph.D.](#) , Associate Professor

[Chia-Wei Lee, D.M.A.](#) , Associate Professor

[Joseph Kneer, D.M.A.](#) , Assistant Professor

Jacuelyn Matava, D.M. , Assistant Professor

[Kimberlyn Montford, Ph.D.](#) , Associate Professor

[Diane Persellin, Ed.D.](#) , Murchison Term Professor of Music

[Gary Seighman, D.M.A.](#) , Associate Professor

[Carolyn True, D.M.A.](#) , Professor

[James Worman, Ph.D.](#) , Associate Professor

Overview

Degree and Degree Plans

Two degrees are offered in the field of music: Bachelor of Arts and Bachelor of Music. The degree Bachelor of Arts offers a broad and comprehensive course of study in the liberal arts. The degree Bachelor of Music offers a plan of specialization and the opportunity of attaining a high level of accomplishment with majors in performance, composition, or a five-year music education program.

A student is admitted to candidacy for the degree of Bachelor of Music or Bachelor of Arts with a major in music only upon the approval of the Department of Music. Each student, with the aid of his/her adviser, will establish a degree plan best suited to his/her own abilities and ambitions in music. Each student's degree plan must be

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](#)
- [Music Individual Instruction Courses](#)
- [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, 1113, 1114, 1203, 1204; 2103, 2104, 2113, 2114, 2203, 2204; 3223, 3341, 3342, 8 credits of Applied Music in one area (4 of which must be at the level of 22– or above), and 6 credits of large ensemble.
 - II. Electives sufficient to achieve 60 hours outside the Department.
 - III. University requirements completion of all other required elements of the Pathways curriculum and at least 124 credit hours (may include additional music study).
-

The Degree - Bachelor of Music, Major in Performance

- I. Departmental requirements: A minimum of 64 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.

Music Ensembles

MUSE-1185 Trinity Choir

The Trinity Choir, a select group of singers, is open to all students by audition at the opening of each semester. In addition to an annual concert tour, the Choir performs in concerts on campus and in the San Antonio area. The music performed by the Choir includes the finest accompanied and a cappella choir music of all periods, both sacred and secular. Open to all students by audition.

MUSE-1186 Voix d'Espirit

Voix d'Espirit is Trinity's premiere all-female vocal ensemble. Open to all women by audition, this ensemble explores the case breadth of music written to display the beauty and power of the female voice. They remain active in supporting a variety of women's issues on campus and throughout the San Antonio community through service-learning. In addition, Voix d'Espirit performs at all of the main musical events on campus, including the fall and spring choral concerts, the highly popular Christmas concert and Vespers Service, and a major choral-orchestral masterwork with the Choral Union.

MUSE-1187 Chamber Singers

The Chamber Singers is a group that performs music of a more highly specialized nature than that performed by the other choral organizations. Frequent performances are given at campus and civic functions throughout the year. Open to all students by audition.

MUSE-1188 Men's Glee Club

The Men's Glee Club is the premiere male chorus at Trinity University. Open to all male students, this ensemble performs a wide variety of repertoire including classical, folksongs, spirituals, and popular arrangements. With a focus on camaraderie and musical excellence, the Men's Glee Club gives regular campus and community performances throughout the school year. They also perform annually with the combined choirs for the Christmas concert, Vespers Service, and Spring Choral Union Masterwork.

MUSE-1189 Trinity Symphony Orchestra

A full orchestra, open to all qualified string, wind, and percussion students by audition. Standard orchestral literature, guest soloists, accompaniment of choral and dramatic productions. Performs on and off campus. Open to all students by audition.

MUSE-1190 Symphonic Wind Ensemble

A select ensemble open by audition to all instrumental students at Trinity University. The Wind Symphony plays

selected music from the band repertoire and a wide variety of music for various sizes of wind ensembles. The Wind Symphony performs both on and off campus. Open to all students by audition.

MUSE-1191 Jazz Ensemble

The Jazz Ensembles perform both contemporary and traditional jazz. The ensembles play both on and off campus. Open to all students by audition.

MUSE-1192 Trinity University Handbell Ensemble

The Trinity University Handbell Ensemble studies the technique of English handbell ringing and performs literature composed for this medium. Open to all students by audition.

MUSE-1193 Chamber Music Ensembles

Ensembles of string, wind, percussion, and/or keyboard instruments (with and without voices) meeting to read and rehearse, giving performances as accomplishment is attained. Open to all students by audition.

MUSE-1194 Piano Ensemble

The preparation and performance under piano faculty supervision of the music literature involving a pianist with another performer, e.g., music for one piano-four hands or for two or more pianos. Improvement of the pianist's sight reading skills is stressed.

MUSE-1195 Opera Workshop

A course in which the principles and techniques involved in musical stage production are applied and result in public performances. Open to all students by audition.

MUSE-1196 Collegium Musicum

A performance course in musics of all eras. Early musical instruments will be used when possible and investigations into the performance practices of the time will be undertaken. Open to all students by audition.

MUSE-1197 Accompanying and Chamber Music for Pianists

The study of the skills of accompanying and chamber music. The preparation and performance under piano faculty supervision of the music literature involving a pianist with another performer, e.g., piano in combination with strings, wind, organ, percussion, and/or voice. Open to all students by audition. 1 hour credit. Prerequisites: Consent of instructor

Music Courses - Theory/Composition

MUSC-1103 Aural Skills 1

This course will focus on developing aural recognition of the basic elements of music, e.g., intervals, chords, and rhythm, through a variety of exercises in music dictation and sight singing. 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 2203. This course will focus on trends of chromaticism in the nineteenth century Western music and uses of tonal and atonal materials in the twentieth century. Continued study of melody, harmony, rhythm, and analysis. Corequisite: MUSC 2104 and 2114 or consent of instructor Prerequisite: MUSC 2203 or consent of instructor

MUSC-3301 Forms and Analysis

An in-depth study of structures and harmonic designs of various genres in Western music from the 17th through the 20th centuries. Emphasis will be placed on the development of analytical skills. Prerequisite: MUSC 2204

MUSC-3302 Counterpoint

A historical approach to contrapuntal techniques from Palestrina to the 20th century with special emphasis on the polyphonic works of J.S. Bach. Analysis based on an aural and visual acquaintance with contrapuntal music as well as practice in writing contrapuntal examples. Prerequisites: MUSC 2204.

MUSC-3303 Composition

Composition in short forms for voice and solo instruments. 3 class hours a week for 2 semesters. Prerequisites: MUSC 2204 and consent of instructor.

MUSC-3304 Composition

Composition in short forms for voice and solo instruments. 3 class hours a week for 2 semesters Prerequisites: MUSC 2204 and consent of instructor.

MUSC-3305 Electronic Music

Instruction in the principles of electro-acoustic music, including analog and digital synthesis, sound modulation, and sound reproduction; the production of individual and group compositions; discussion of related contextual problems and a survey of recent electronic music.

MUSC-4-11 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-4-13 Composition

Guidance in solution of creative and practical problems attending the composition of one or more vocal,

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

A study of Italian, German, French, and English diction as used in vocal performance, emphasizing preparation of selected literature. Prerequisite: MUSC 1201

MUSC-3222 Diction for Singers II

A study of Italian, German, French, and English dictation as used in vocal performance, emphasizing preparation of selected literature. Prerequisites: MUSC 3221

MUSC-3223 Basic Conducting

Fundamentals of score reading, baton technique and expressive gestures, and principles of score interpretation applied to selected examples of instrumental and choral literature. Prerequisite: MUSC 2204 or consent of instructor.

MUSC-3224 Advanced Instrumental Conducting

As a continuation of MUSC 3223, areas of score study, form and analysis asymmetric meters, expressive interpretation, and advanced conducting gestures will be explored in the context of the instrumental music repertoire. Prerequisite: MUSC 3223

MUSC-3225 Advanced Choral Conducting

As a continuation of MUSC 3223, areas of score study, form and analysis, asymmetric meters, expressive interpretation, and advanced conducting gestures will be explored in the context of the choral music repertoire. Prerequisite: MUSC 3223

MUSC-4221 Full Recital

A full program presented in public usually during the senior year. Required for all Bachelor of Music students in performance. Prerequisite: Applied music level of 43--.

MUSC-4321 Applied Music Pedagogy

Theories and techniques of individual music instruction applied to the teaching of performance skills on voice, keyboard or orchestral instruments. Student teaching is supervised by the instructor. May be repeated for credit in applied fields. Prerequisite: Consent of instructor.

MUSC-4322 Applied Music Literature

Principal composers, styles and types of performance skills on voice, keyboard or orchestral instruments. May be repeated for credit in different applied fields. Prerequisite: Consent of instructor.

History/Literature

MUSC-1340 Introduction to Music History

An introduction to the history, styles, genres, and forms of the Western art music tradition from the Middle Ages to the twentieth century. Important composers discussed include Bach, Beethoven, Stravinsky, and Tchaikovsky. Topics include the symphony, opera, sacred music, and the avant garde. Previous musical experience is not necessary, but students will be expected to develop discriminating listening skills to enhance their understanding and appreciation of the material.

MUSC-1341 Operas of Verdi and Wagner

A study of the life and works of two composers whose works epitomize the stylistic trends of the nineteenth-century opera. Introduces basic concepts and conventions of the art form, while exploring and contrasting their unique contributions to the genre and their influence on succeeding generations of operatic composers. Examines the dramatic experience as a result of the nationalist, philosophical, and cultural traditions from which each composer took inspiration, through such works as *Otello*, *La Traviata*, *Tristan and Isolde*, and *Die Walkure*. Previous musical experience is not necessary, but students will be expected to develop discriminating listening skills to enhance their understanding and appreciation of the material.

MUSC-1343 Introduction to Opera

A study of opera through an examination of selected works, beginning in the seventeenth century and continuing through the present. Introduces the basic concepts and conventions of the art form, while investigating the dramatic, musical, and literary qualities that make opera such an emotionally powerful theatrical experience. Explores such operas as *The Magic Flute*, *Carmen*, and *Wozzeck*, as well as stagecraft, musical symbolism, and the production design. Previous musical experience is not necessary, but students will be expected to develop discriminating listening skills to enhance their understanding and appreciation of the material.

MUSC-1344 Nights At the Symphony

The symphony orchestra has been at the center of musical expression in western civilization for over three hundred years. This course gives students an introduction to the world of the modern orchestra, as seen and heard in the music performed live by the San Antonio Symphony. Students will regularly attend the San Antonio Symphony's concerts during the semester. We will prepare for concerts by studying the music, composers, genres, instruments, and historical developments represented on specific concert programs. In addition, throughout the semester a handful of core repertory works such as Mozart's *Overture to Don Giovanni*, Beethoven's *Fifth Symphony*, and Strauss's *Death and Transfiguration* will be studied. The course also introduces students to the business of running a modern orchestra through lectures and readings in arts management. (Offered every year).

MUSC-1345 Women and Music

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

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

century Piano Music. K. Advanced Applied Music Pedagogy. Prerequisites: Consent of instructor and department chair.

MUSC-4394 Workshop or Seminar

Topics will vary depending on student interest. Titles that may recur are: A. Organ Literature. B. Studies in Ornamentation. C. Performance Practice D. Medieval and Renaissance Music. E. Curricular Developments in Secondary School Music. F. Piano Music of the Classical Period. I. Piano Music of the Romantic Period. J. 20th Century Piano Music. K. Advanced Applied Music Pedagogy. Prerequisites: Consent of instructor and Department Chair.

MUSC-4398 Honors Thesis

Individual research and scholarly investigation under faculty supervision leading to the preparation of an Honors Thesis. Prerequisite: Senior standing.

MUSC-4399 Honors Thesis

Individual research and scholarly investigation under faculty supervision leading to the preparation of an Honors Thesis. Prerequisite: Senior standing.

Music Education

MUSC-2163 Instrumental Fundamentals-Strings

A study of methods of teaching string instruments. Through direct hands-on playing of instruments and a study of applicable method books, students will develop a fundamental knowledge and basic technique of each instrument in the string section.

MUSC-2164 Instrumental Fundamentals-Woodwinds

A study of methods of teaching woodwind instruments. Through direct hands-on playing of instruments and a study of applicable method books, students will develop a fundamental knowledge and basic technique of each instrument in the woodwind section.

MUSC-2361 Music in Childhood

A study of the instructional approaches suited to the cognitive, physical, and affective development of children in early and middle childhood. Students will acquire basic music skills and understandings in order to provide music experiences in the classroom.

MUSC-2362 Music in Early Childhood

Identifying, understanding, and guiding musical needs of young children. Methods and materials for program development for students seeking kindergarten endorsement or interested in teaching primary grades.

MUSC-3162 Instrumental Music Techniques

An overview of beginning orchestral and band experiences. Students will be introduced to the four families of instruments and will observe these instruments being taught in the middle schools. Prerequisite: MUSC 1161.

MUSC-4264 Marching Band and Jazz Instrumental Practices

A study of the unique stylistic, pedagogical, and organizational demands relative to marching bands and jazz ensembles in the middle and secondary school setting. Students will develop an understanding of and personal approach to teaching and rehearsing these unique groups in the context of a music education philosophy. Prerequisite: MUSC 2204

MUSC-4361 Elementary Music Instructional Practices

Music programming, instruction, and organization of music in general music classes, kindergarten through eighth grade. Prerequisite: MUSC 1161

MUSC-4362 Secondary Instrumental Music Instructional Practices

A study of the organization, functions, materials, and instructional practices relative to instrumental music ensembles in the middle and secondary school setting. Students will develop an understanding of and personal approach to teaching and rehearsing music in the context of a music educational philosophy. Prerequisites: MUSC 1161, 3223, and Senior standing.

MUSC-4363 Secondary Choral Music Instructional Practices

A study of the organization, functions, materials, and instructional practices relative to choral music ensembles in the middle and secondary school setting. Students will develop an understanding of and personal approach to teaching and rehearsing music in the context of a music educational philosophy. Prerequisites: MUSC 1161, 3223, and Senior standing.

MUSC-4364 Elementary Music Methods and Materials

This course will deal with the European and American music education methods such as Orff Schulwerk, Kodaly, Dalcroze Eurhythmics, Comprehensive Musicianship, and Gordon. Music education technology, global music for children, and early childhood music education will also be addressed. Prerequisite: MUSC 4361 and Senior Standing

NEUR 3457	Neurobiology
NEUR 4000	Neuroscience Seminar (four semesters)

B. Supporting courses in biology (8 hours):

BIOL 1311	Integrative Biology I
BIOL 1111	Introductory Biology Laboratory
BIOL 2312	Cells and Cell Systems
BIOL 2112	Cell Systems Laboratory

C. Supporting courses in chemistry (8 hours):

CHEM 1318	Chemistry in the Modern World
CHEM 1118	Introduction to Analytical Methods
CHEM 2319	Organic Chemistry
CHEM 2119	Laboratory Methods in Organic Chemistry

D. Supporting courses in psychology (11 hours):

PSYC 1300	Principles of Psychology
PSYC 2401	Statistics and Methods I
PSYC 2402	Statistics and Methods II

E. Four elective courses from the following (12-16 hours).

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

PHYS 2311	An Introduction to Biophysics
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Psychology

PSYC 2330	Fundamentals of Cognition
PSYC 3311	Sensation and Perception
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, BIOL 1311/1111, CHEM 1318/1118, and PSYC 2401 with a grade of C or better.

II. An overall grade point average of at least 2.0.

Honors Program

To be eligible for graduation with Honors in Neuroscience, students must earn a grade point average of at least 3.33 in all courses taken prior to the semester before graduation, a grade point average in neuroscience courses (core and supporting) of at least 3.50, and A in BIOL 4398 and 4399 or PSYC 4395 and 4396 (thesis research in Biology or Psychology).

To apply for graduation with Honors in Neuroscience, students should address a written request for consideration to the Faculty Advisory Committee. The request must be received no later than the first full week of the student's final semester before graduation. The decision to confer or not to confer Honors will be made by the Faculty Advisory Committee and the Research Supervisor and will be based on the quality of the written thesis and its oral presentation in a colloquium.

Courses

NEUR-2310 Introduction to Neuroscience

A survey of basic neuroscience, starting with fundamentals of neuronal structures and ending with higher brain functions and their relations to mind and behavior. (Also listed as PSYC 2310). Prerequisite: PSYC 1300

NEUR-2110 Neuroscience Laboratory

The neuroscience laboratory provides students with a hands-on approach to understanding the scientific method through neuroscientific techniques and data analysis, including anatomical electrophysiological, and computer simulations. Students will engage in laboratory exercises as well as in solving problem sets. This course is appropriate for both non-majors and science majors Spring semester only. (Also listed as PSYC 2110) Prerequisite or Corequisite: NEUR/PSYC 2310.

NEUR-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 acquire and develop skills in ethical

analysis. In addition, relevant neuroanatomy, neurophysiology, and neurotechnologies will be discussed. (Also listed as PSYC 3310.) (Offered every other year.) Prerequisite: PSYC 1300 and PSYC/NEUR 2310 or Permission of Instructor

NEUR-3360 Special Topics in Neuroscience

A specialized course periodically offered in Neuroscience Program and participating departments (Biology, Chemistry, Physics and Astronomy, and Psychology). May be repeated for up to 6 hours credit when topics vary. Prerequisite: Consent of Instructor

NEUR-3457 Neurobiology

Neurobiology focuses on the organization and function of nervous tissues and systems. The course begins with an anatomical overview, followed by an examination of neural system function at the level of signaling and synaptic transmission, sensory systems, and central system integration and control. With this foundation, the course explores brain development and plasticity. Additional hours are required to monitor experiments. (also listed as BIOL 3457). (Offered every year). Prerequisites: BIOL 2413, NEUR 2310, and CHEM 2319, 2119

NEUR-4000 Neuroscience Seminar

This course is built around student presentations of independent research in neuroscience (NEUR 4390) and seminars from occasional external speakers. Neuroscience majors are required to register for this course each semester of their junior and senior years. The course is also open to other students interested in neuroscience.

NEUR-4-90 Research in Neuroscience

Independent empirical research arranged with a faculty member on problems in neuroscience. Results of the project are presented in written and oral form. A maximum of 6 semester hours is allowed. The research topic must be approved by the Faculty Advisory Committee. Prerequisites: Consent of instructor.

New Media

Faculty

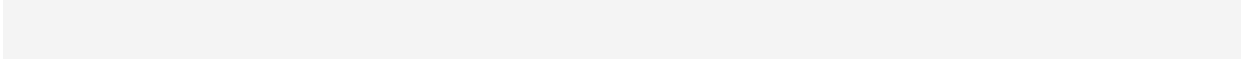
William G. Christ, Ph.D. , Professor, Communication

Aaron Delwiche, Ph.D.

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:



Physical Education

Faculty

[Patrick J. Cunningham, M.S.](#) , Instructor; Coach

[Cameron Hill](#) , Instructor; Coach

[Julie B. Jenkins, M.S.](#) , Instructor; Coach

Caroline Keener , Associate Director of Athletics; Coordinator of Physical Education Activities

Lance Key, B.A. , Instructor; Coach

Derick Lawrence , Instructor; Coach

[Russell McMIndes, B.S.](#) , Instructor; Coach

[John Ryan, M.A.](#) , Instructor; Coach

[Tim Scannell, B.S.](#) , Instructor; Coach

PHED-1130 Tennis III

Skills, strategies and drills for qualified students who wish to play at a competitive level. (student are responsible for entry fees for playing local tournaments.) Prerequisite: Organized competitive experience.

PHED-1131 Trap and Skeet I

Fundamental skills of skeet and trap shooting including position, tracking, aiming, leading, and firing. Firearms safety will be covered in relation to all firearm sports.

PHED-1132 Trap and Skeet II

Advanced techniques of trap and skeet shooting including the mental aspects of competition, advanced skills, equipment care and safety factors. Prerequisite: PHED 1131 or consent of instructor

PHED-1133 Triathlon Training

A course designed to teach the skills, techniques, and training principles necessary to prepare for participation in the sport of triathlon: swimming/cycling/running.

PHED-1134 Conditioning and Weight Training

A course designed to teach students how to develop and implement a comprehensive exercise program that includes both aerobic fitness and weight training.

PHED-1135 Cardio Kickboxing

This course is designed to use intermediate techniques of cardio kickboxing skills to improve cardio respiratory endurance, muscular strength and endurance, anaerobic threshold, and body composition. Training will consist of intermediate to advanced techniques in cardio kickboxing and contact strikes using gloves and punching bags. Traditional activities such as calisthenics, resistance training, jump rope training, and core muscle training will be

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

Introduces the basic running principles of running and prepares students to complete a 5 kilometer race by the end of the course.

PHED-1161 Half Marathon Challenge

Introduces the advanced training principles of running and prepares the student to complete a Half Marathon by the end of the course.

PHED-1162 Cardio Tennis

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.

Philosophy

Faculty

[Curtis Brown, Ph.D.](#) , Professor

[Damian Caluori, D.Phil.](#) , Associate Professor

[Rachel Johnson, Ph.D.](#) , Assistant Professor

[Andrew Kania, Ph.D.](#) , Professor

[Steven Luper, Ph.D.](#) , Professor; Chair

[Judith Norman, Ph.D.](#) , 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:

PHIL 4491	Seminar on a Philosophical Problem
PHIL 4492	Seminar on a Philosopher
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 3410	Classical Greek Philosophy
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

D. At least 2 of the following courses:

D. At least one of the following:

PHIL 3423	German Idealism
PHIL 3426	Nietzsche and German Philosophy
PHIL 3429	Continental Philosophy

E. At least one of the following (preferably all three):

1. An intermediate-level course in German, French, or Greek
2. PHIL 3340 Symbolic Logic II
3. A course in mathematics at the level of MATH 1311 (Calculus I) or higher

F. PHIL 4396 Thesis I

G. PHIL 4397 Thesis II

Courses

Lower Division

PHIL-1301 Introduction to Philosophy

An introduction to Philosophy emphasizing central issues in epistemology, metaphysics, and ethics. The course will focus on major philosophical figures (such as Plato, Aristotle, Descartes, Locke, Hume, Kant, Hegel, and Marx).

PHIL-1341 Tools for Reasoning

Reasoning is the process of using the evidence available to us in order to make informed decisions about what to believe and do. Good reasoning requires the ability to identify and assess deductive arguments; to formulate hypotheses, test them, and choose those that are best supported by the evidence; and to assess which courses of action are most reasonable given our beliefs and values. This class will introduce a number of tools that are useful for reasoning, including deductive logic, probability and statistics, and decision theory. The course will also consider problem-solving techniques and ways of evaluating the credibility of sources.

PHIL-1350 Environmental Ethics

A study of the moral status of the things and creatures that make up the environment, and their moral relationship

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.

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: Any course in Philosophy or consent of instructor

PHIL-3423 German Idealism

A study of important thinkers and movements at the beginning of the 19th century. We will focus initially on Kant, and investigate how German Idealism and Romanticism developed in the aftermath of Kant's critical philosophy.

After an extended treatment of Hegel, we will look at the young Hegelians and Marx. The course will focus on issues in metaphysics, epistemology, the philosophy of history and the problem of subjectivity. (Also listed as GRST 3460.) (Offered every other year). Prerequisite: Any course in philosophy or consent of instructor.

PHIL-3426 Nietzsche and German Philosophy

A study of the important thinkers and movements at the end of the 19th century. We will focus initially on Kant before seeing how Schopenhauer and finally Nietzsche developed on the basis of the Kantian philosophy. After an extended treatment of Nietzsche, we will look at how Freud and psychoanalysis grew out of this tradition. The course will focus on issues in epistemology, the philosophy of art, the philosophy of nature, and the development of the notion of the unconscious. (Also listed as GRST 3461). (Offered every other year). Prerequisite: Any course in Philosophy or consent of instructor

PHIL-3428 The Philosophies of China

A study of the three major indigenous philosophical movements in China: Confucianism, Taoism, and Neo-Confucianism. Special attention will be paid to themes and problems common to all three movements, including: the metaphysics of harmony and conflict, the individual and society the cultivation of human virtues and human perfectibility, and humankind's relation to nature. Course taught in English. (Also listed as CHIN 3428) (Offered occasionally). Prerequisite: Any course in Philosophy or consent of instructor

PHIL-3429 Continental Philosophy

A close reading of some of the major texts of twentieth-century French and German philosophy, with some attention to their roots in nineteenth-century philosophy. Prerequisites: Any course in Philosophy or consent of instructor

Upper Division - Metaphysics and Epistemology

PHIL-3430 Metaphysics

A survey of traditional and contemporary philosophical issues about the nature of reality. Typical topics covered include some of the following: the mind-body problem, personal identity, free will and determinism, causation, time, fatalism, universals and particulars, essentialism, possible worlds. (Offered every other year). Prerequisites: Any 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

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.

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 claims are objective. (Offered every other year) Prerequisite: Any course in Philosophy or the consent of instructor.

PHIL-3451 Social and Political Philosophy

A critical study of philosophical views about society and politics, with particular attention to the concepts of sovereignty, obligation, rights, justice, equality, and liberty. Prerequisite: Any course in Philosophy or consent of instructor

PHIL-3452 Ethical Theory

A discussion of issues in normative ethics and metaethics. Typical topics covered include some of the following: the meaning of ethical terms, the justification of moral principles and judgments, intrinsic and extrinsic value, consequentialism and deontology, moral relativism, natural rights, theories of justice. Prerequisite: Any course in Philosophy or consent of instructor

PHIL-3453 Philosophy of Law

A critical study of legal theory, legal reasoning, and the role of law in contemporary society. Prerequisite: Any course in Philosophy or consent of instructor

PHIL-3454 Philosophy of Gender

In this class, students will study the ideas of Karl Marx and the impact they have had on 20th century thought. The class will have two components: the philosophy of Marx and the contemporary application of Marxist principles to various problems and disciplines. Prerequisite: 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 authorship and narrativity, issues of interpretation, and the nature and ethics of documentary. (Same as FILM 3357)(offered every other year). Prerequisite: Any course in Philosophy, or Introduction to Film Studies (ARTH 1301, COMM 1302, FILM 1301, or ML&L 1301), or International Cinema (ARTH 2301, COMM 2301, FILM 2301, or ML&L 2301), or consent of Instructor.

PHIL-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 MUSC 3458. (Offered every other year.) Prerequisite: Any course in Philosophy or MUSC 1301 or MUSC 1203 or consent of instructor

PHIL-3459 Biomedical Ethics

A study of ethical issues associated with the practice of medicine and the pursuit of biomedical research. Topics may include: physicians' obligations and patients' rights; experimentation on humans and animals; assisted suicide; euthanasia; abortion and parental rights; genetic engineering; and social justice and the right to health care.

PHIL-3460 Philosophy of Literature

In this course we will investigate several philosophical issues raised by literature, such as what exactly literature is, the nature of literary authorship and interpretation, why it is we respond emotionally to fictional characters, and what the value of engaging with literature is. (Offered every other year). Prerequisite: Any course in Philosophy or six hours of English or consent of instructor

PHIL-3361 Theorizing Myth

German romantics such as Schiller and proceeding on to Freud and Ricoeur. A second strand begins with Hegel's theories of "false consciousness" that would in time develop into interpretations of myth as ideology, under the influence of Marx, Adorno, and Althusser. A final strand begins with the early folklorists, the brothers Grimm, and would in time develop into functionalist approaches to myth by anthropologists such as Malinowski, Boas, and Levi-Strauss. The resulting big picture is as much an intellectual history of modernity as a history of theorizing myth. (Also listed as CLAS 3350) Prerequisites: Sophomore standing or consent of instructor.

Seminars and Special Courses

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-4-90 Directed Studies

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

PHIL-4491 Seminar on a Philosophical Problem

An in-depth study of a contemporary problem in philosophy. Prerequisite: 8 upper-division hours or consent of instructor.

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.

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.](#) , Assistant Professor

[David Pooley, Ph.D.](#) , Assistant Professor

Orrin Shindell, Ph.D. , Assistant Professor

[Jennifer Steele, Ph.D.](#) , Associate Professor

[Niescja E. Turner, Ph.D.](#) , Charles A. Zilker Professor of Physics and Astronomy

[Dennis Ugolini, Ph.D.](#) , Professor, Chair

Requirements

- [Bachelor of Arts with a major in Physics](#)
- [Bachelor of Science with a major in Physics](#)
- [Teacher Certification in Physics](#)
- [Guidelines for Acceptance of Majors](#)
- [Honors in Physics](#)
- [Minor in Physics](#)
- [Minor in Astronomy](#)

The Major

Bachelor of Arts with a major in Physics

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

I. Departmental requirements:

- A. The major: 30 credit hours in Physics, including the following or equivalent courses: PHYS 1111, 1112, 1311 (or 1309), 1312 (or 1310), 2131, 2132, 3321, 3322, 3323, 3335, 4121 or 4131, and at least two of the following five courses: 3325, 3333, 4122, 4132, 4395.
- B. Math requirements:
 - i. Math 1311, 1312, 2321
 - ii. Either MATH 3316 or both MATH 3336 and 3323.
- C. Computer Science Requirements: Either CSCI 1312 or CSCI 1320.

Teacher Certification in Physics

Students completing either the B.A. or B.S. physics major have two options to receive certification to teach physics in grades 8-12 in Texas through Trinity's Master of Arts in Teaching (MAT) program. Students can pursue (1) the Grades 8-12 Physics/Mathematics certification, which would enable a graduate to teach physics and mathematics or (2) the Grades 8-12 Physical Science certification, which would enable a graduate to teach physics as well as chemistry and 8th grade general science (this would require coursework in chemistry and geosciences in addition to the physics major). Both options require undergraduate education coursework as preparation for entry into the MAT program and to fulfill state requirements. Students who complete Trinity's 5 year Teacher Education Program will earn both a Bachelor's degree in Physics and Master of Arts in Teaching as well as teacher certification. For more information and specific requirements, including middle school and elementary science teaching opportunities as well, see the Education Department's program description in the course catalog.

Guidelines for A I S eacho eacho eacho

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

The combined total of hours for 3129, 3-90, or 3-92 may not exceed 3 hours. Any of these three research-directed studies courses may be repeated for additional credit with different content. The chair of the Department of Physics and Astronomy must approve the selected content of 3129, 3-90, or 3-92 as relevant to the minor in astronomy.

Courses

PHYS-1103 Observational Astronomy

A laboratory course to accompany either PHYS 1304 or 1305. Basic use of a telescope, including celestial coordinates and time systems. Visual observations of the Sun, Moon, planets and their satellites, stars, star clusters, nebulae, galaxies. Further possible topics include photometry, spectroscopy, electronic imaging. One field trip to a dark observing site may be required. May be taken only once for credit. Either PHYS 1304 or 1305 is a prerequisite or a corequisite.

PHYS-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 relativity; 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 Stellar and Extragalactic Astronomy

A survey of the property of stars and of galaxies and modern theories of cosmology. Topics include: distances, masses, sizes, motions, magnitudes and spectra of stars; stellar structure and evolution; pulsars and black holes; star clusters, nebulae, interstellar gas and dust; galactic structure; quasars, active galaxies, clusters of galaxies, large-scale structure in the universe; extra-galactic distance scale, big bang theory, inflationary model, convergence of particle physics and cosmology; the nature of light and astronomical instruments. PHYS 1304 is not a prerequisite for PHYS 1305. May be taken without enrolling in PHYS 1103.

PHYS-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 and include: solar, wind, water, geothermal, biofuels, and hydrogen; extra-galactic distance scale, big bang theory, inflationary model, convergence of particle physics and cosmology; the nature of light and astronomical instruments.

PHYS-2132 Sophomore Experimental Physics II

Continued instruction in experimentation, data analysis and scientific writing. Experiments are drawn from the areas of mechanics, electricity and magnetism, optics, and nuclear physics. Meet 3 hours per week. Prerequisites: PHYS 2131.

PHYS-2311 An Introduction to Biophysics

A basic introduction to the application of physical principles to biological systems on nanometer-to-micrometer length scales. Questions addressed include: What are the forces that hold a cell together? How can a cell exert forces resulting in cell motion? What are the forces and energies involved in DNA functioning, protein folding, and nerve-signal transmission? How do the forces and energies at the molecular level ultimately generate the forces and energies required for macroscopic motion? Prerequisites: Math 1307 or 1311 and any one of the following four courses: BIOL 1311, CHEM 1318, PHYS 1309, or PHYS 1311.

PHYS-3129 Research Participation II

Individual research participation under faculty supervision. Prerequisites: PHYS 2128 and consent of the Department Chair.

PHYS-3-92 Directed Studies for Secondary School Science Teacher - Junior Level

Students work under supervision of a faculty member on a project that will be applicable to their future careers in teaching secondary school science. Oral and written communication of results are required. May be taken for 1 to 2 hours per semester with no more than 4 cumulative credit hours possible. Prerequisites: Junior standing and completion of at least six science and mathematics courses and consent of the instructor.

PHYS-3194 Speaking Physics

Speaking Physics is a junior level course designed to train physics majors to become effective communicators in their field. Students will gain experience presenting technical research-style talks, with several opportunities for feedback from the instructor and peers. (Offered every Spring)

PHYS-3321 Statistical Physics and Thermodynamics

An introduction to the subjects of statistical mechanics, kinetic theory, thermodynamics and heat. Prerequisites: PHYS 3323 and MATH 2321 (may be taken concurrently).

PHYS-3322 Classical Mechanics and Nonlinear Dynamics

Newtonian dynamics and kinematics utilizing the vector calculus. Topics include momentum, work and potential energy, angular momentum, rigid body dynamics, harmonic oscillators, central force motion, non-inertial systems,

chaotic kinematics, and non-linear systems. Prerequisites: PHYS 1312 (or 1310), MATH 2321 (may be taken concurrently).

PHYS-3323 Introduction to Modern Physics

A quantitative survey of modern physics. Topics include: special relativity, waveparticle duality, and Schrodinger equation, identical particles, solid state, and high energy physics. Prerequisites: PHYS 1312 (or 1310), MATH 2321 (may be taken concurrently).

PHYS-3325 Optical Physics

The nature and propagation of electromagnetic waves and their interaction with matter. Topics from geometrical optics include reflection, refraction, mirrors and lenses. Topics from physical optics include polarization, interference, and Fraunhofer and Fresnel diffraction. Prerequisites: PHYS 1312 (or 1310) and MATH 1312.

PHYS-3333 Quantum Physics I

Introduction to the theory of quantum mechanics. Stationary states and time evolution of solutions to the Schrodinger equation. Observables, operators and eigenvalues. The harmonic oscillator, angular momentum, central potentials, and perturbation theory. Prerequisites: MATH 2321, PHYS 3323.

PHYS-3335 Electromagnetic Fields

An intermediate course on electromagnetic theory. Electrostatic field and potential, Gauss's law, conductors, electric dipole and multipoles, solutions to Laplace's equation, method of images, dielectric media, electrostatic energy, electric current. Magnetic field of steady currents, including the law of Biot and Savart, Ampere's law, magnetic vector potential. Electromagnetic induction. Introduction to Maxwell's equations. Prerequisites: PHYS 3322, MATH 3316 (may be taken concurrently).

PHYS-3336 Advanced Theoretical Physics

An advanced course on electromagnetic theory and classical mechanics. Magnetic materials, inductance, magnetic energy, transient and steady-state behavior in circuits with time variable currents, full development of Maxwell's equations, propagation of electromagnetic waves, waves in bounded regions, radiation emission. Lagrangian and Hamiltonian dynamics, rigid body motion. Further possible topics include special relativity, plasma physics, fluid mechanics, and coupled oscillations. Prerequisites: PHYS 3335, MATH 3316.

PHYS-3348 Atmospheric Physics

The physics of planetary atmospheres and the role of the atmosphere in determining climate. Topics include: global radiative equilibrium, radiative transfer, thermodynamic processes in the atmosphere, the general circulation, cloud formation, the ozone layer, instrumentation and data bases. Prerequisite: PHYS 1310 or 1312.

and electronics. Prerequisite: PHYS 2132, 3323 (may be taken concurrently), or consent of instructor.

PHYS-4132 Advanced Experimental Physics II

PHYS-4-90 Directed Studies - Senior Level

Individual research under faculty supervision or independent study under faculty supervision in fields not covered by other courses. Credit may vary from 1 to 3 hours. This course may be repeated for additional credit; however, no more than 3 total hours may be counted toward a major in physics. Prerequisite: Consent of the Department Chair.

PHYS-4395 Senior Project

Individual research and scholarly investigation under faculty supervision. Presentation of results at a department seminar is required. Required of all B.S. Physics majors. Prerequisite: Senior standing.

PHYS-4396 Senior Thesis

Continuation of PHYS 4395 including written preparation of a thesis and oral presentation of results at a department seminar. Not required of but highly recommended for B.S. Physics majors. Prerequisite: PHYS 4395.

PHYS-4398 Honors Project

Individual research and scholarly investigation under faculty supervision. Presentation of results at a department seminar is required. Required for honors in physics. Prerequisite: PHYS 3398.

PHYS-4399 Honors Thesis

Continuation of PHYS 4398 including written preparation of a thesis and oral presentation of results at a department seminar. Required for honors in physics. Prerequisite: PHYS 4398.

Guidelines for acceptance of majors

- I. Completion of two lower division courses with grades of C or better.
 - II. An overall grade point average of at least 2.0.
-

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-1332 Film, Literature, and Politics of the Third World

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.

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-3316 Urban Politics

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-3339 Special Topics in Comparative Politics

Occasionally courses will be offered on special topics. Students are encouraged to bring to the attention of the Department Chair topics they wish to have offered. Students may take this course more than once provided the topics are vary.

PLSI-3430 European Politics

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.)

Upper Division - International Politics

PLSI-3343 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-3344 The Middle East and the World

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. Prerequisite: One lower division course in Political Science 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-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 CHIN 3366, URBS 3366).

PLSI-4341 International Political Economy

An examination of the relationship between international politics and international economy. Particular attention is given to the explanation of political decisions based on economic determinants. Emphasis will be given to concepts of power, interdependence, poverty, imperialism, justice, and development.

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-3369 Special Topics in Political Theory

Occasionally courses will be offered on special topics. Students are encouraged to bring to the attention of the Department Chair topics they wish to have offered. Students may take this course more than once provided the topics vary.

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 Iceland's literacy,

Psychology

Faculty

[Carolyn Becker, Ph.D.](#) , Professor

[Jane Childers, Ph.D.](#) , Professor; Chair

[William Ellison, Ph.D.](#) , Assistant Professor

[Paula Hertel, Ph.D.](#) , 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-long methods sequence (preferably in the sophomore year). Through a rigorous advising program, students are encouraged to choose electives to develop their particular interests. Students who intend graduate study are encouraged to choose research experiences, as well as seminars related to their interests.

Requirements

The Major

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

I. Departmental requirements: 38 hours in psychology, including:

- A. PSYC 1300 (with a minimum grade of C).
- B. PSYC 2401 (with a minimum grade of C) and PSYC 2402.
- C. PSYC 2310 (alternatives: BIOL 1311, BIOL 1307).
- D. One course in each of the following clusters:
 1. Developmental Psychology: 2320, 3321, 3322.
 2. Social and Clinical Psychology: 2341, 3340, 3342.

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

In-depth study of theory and research on a topic that spans subdisciplines within psychology or relates psychology to cross-disciplinary interests. Prerequisite: Senior status with a major in psychology or consent of instructor.

Individual Experience

PSYC-3357 Directed Field Practicum

Field work conducted as part of the academic curriculum. May be repeated once for credit on a different topic. Pass/Fail basis only (Does not count toward the major). Prerequisites: PSYC 334 O I opic.

Religion

Faculty

[C. Mackenzie Brown, Ph.D.](#) , Professor

[Ruben R. Dupertuis, Ph.D.](#) , Associate Professor

Sajida Jalalzai, Ph.D. , Assistant Professor

[Randall L. Nadeau, Ph.D.](#) , Jennie Farris Railey King Professor of Religion

[Sarah K. Pinnock, Ph.D.](#) , Professor, Chair

[Simran Jeet Singh, Ph.D.](#) , Assistant Professor

[Chad S. Spigel, Ph.D.](#) , Associate Professor

[Angela Tarango, Ph.D.](#) , 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: Approaches to the Study of Religion.

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.

The Minor

The requirements for a minor in Religion are as follows:

- I. At least 18 credit hours in Religion.
- II. At least 12 of the credit hours in Religion to be upper-division courses selected in consultation with a faculty adviser in the Department of Religion.
- III. A total of no more than 8 credit hours from RELI 3-90 and 3-91 may be counted toward the minor without approval of the adviser and the Department.

Courses

Lower Division Courses at the 1000 Level

RELI-1320 Ethical Issues in Religious Perspective

Inquiry into the religious dimension of issues such as environmental pollution, violence, capital punishment, economic injustice, hunger, homosexuality, feminism, pornography, abortion, and euthanasia.

RELI-1330 Asian Religions

A study of Hindu, Buddhist, and East Asian religious traditions in theory and practice; attention to such topics as reincarnation, yoga and meditation, shamanism, ritual, salvation, personal religious experience, gender roles, spiritual ideals of art, and the relation of humankind to nature and the cosmos.

RELI-1360 Religion in the United States

A study of religious diversity in the United States with emphasis on the Protestant, Catholic, Jewish and Islamic traditions. Attention may be given to such topics as Native American religion, civil religion, new religious movements, women in religion, and televangelism.

Lower Division Courses at the 2000 Level

RELI-2400 What Is Religion?

This course examines the question of what religion is, including those aspects that today some people refer to as spiritual. Attention will be given to such related questions as: How do you think about or define religion? How have

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 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 LAC 2101).

RELI-2460 Philosophy of Religion

A critical discussion of philosophical issues arising in religion and theology. Typical topics covered include: religious language, arguments for God's existence, religious experience, miracles and revelation, the relationship of faith and reason, the nature of God, the problem of evil, death and immortality. (Also listed as PHIL 2438) (Offered every other year).

RELI-2354 The Hebrew Bible/Old Testament

A study of the books of the Old Testament/Hebrew Scriptures in English translation. Some of the books will be read in their entirety, and substantial excerpts of most of the others will also be read so that all of the major types of literature present in the Old Testament/Hebrew Scriptures will be represented. The course will approach its subject matter primarily as literature, but attention will be given to the historical, cultural, and religious aspects of its production. The course will also consider the trajectory of its subject matter in Jewish and Christian thought, and in Western Culture.

RELI-2355 The New Testament

A study of the writings that comprise the New Testament, with attention also to certain other early Christian documents not included in the New Testament. Most of the writings are read in their entirety, and they are examined with reference to their historical, cultural, religious, and literary contexts; their use as historical sources for the reconstruction of Christian origins; their role as a basis for Christian belief and practice; and their wider influence in Western and world cultures.

RELI-2356 The Qur'an

Islam and Muslims have been embroiled in some of the most searing controversies of our age, and the Islamic scripture, the Qur'an, has been at the center of a number of these controversies. This course introduces students to the Qur'an, and how it is perceived by Muslims themselves. Religion 2356 deals with the importance of this sacred text for the religion of Islam, including its beliefs, rituals, and rites. The course also covers the history of the Qur'an

RELI-3432 Buddhist Ecology

This course explores a central teaching of the Buddha, as well as a primary focus of Engaged Buddhism or Buddhist practice: the inter-relationship between humans and their environment. Buddhist Ecology examines the foundations of Buddhist ecological thinking through analysis of the Buddhist scriptural and historical traditions, as well as its applications in the modern world. Course texts include the sutras or discourses of the Buddha, the monastic code, contemporary statements by Buddhist thinkers and activists worldwide, and scholarly treatments of Buddhist thought and practice, Engaged Buddhism, and Buddhist Ecology. (Offered every other year)

RELI-3433 Chinese Religions: Unity and Diversity

Religion 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. (Offered every other year.) (Same as CHIN 3433.) Prerequisite: RELI 1330 or consent of instructor.

RELI-3338 Greek Religious Experience

A study of Greek religious festivals designed to produce a coherent image of a year in the religious life of the ancient Greeks. Through a combination of archaeological and literary evidence, we will attempt to reconstruct the rituals performed at the various festivals and explore the ways in which they organized and articulated the community through shared religious experience. We shall also consider the ways in which religion organized civic space and gave it meaning. (Also listed as CLAS 3338).

RELI-3441 Creating Judaism

This course introduces the student to the cultural, religious, political and social lives of Jews, covering the entirety of Jewish history. Using historical and religious studies approaches, students in this course will discuss Judaism(s) at different times and in different geographical locations focusing on questions of identifications and definition. (Offered every Spring) Prerequisite: RELI 2354 or consent of instructor.

RELI-3442 Global Christianities

A study of Christianity within its modern socio-historical contexts. Possible topics within the course include the development of indigenous Christians in the two-thirds world, the rise of global Pentecostal-charismatic movements, the shift to the global south within Catholicism, the growth of post-communist Orthodoxy, mainline Protestant missionary endeavors, and evangelical Christian influence on political and social policies worldwide. (Offered every other year). Prerequisite: One Religion course

RELI-3443 Islamic Worlds

An examination of Islam as a diverse, living tradition practiced by more than 1.5 billion people around the world. Students will learn about foundational aspects of the world's second largest religion, from its historical development, scriptural source (Qur'an), and modes of practice. The course will also engage contemporary issues, from perspectives on global violence and gender equality to the phenomena of Islam in America and anti-Muslim sentiment. Prerequisite: RELI 2356 or consent of instructor

RELI-3350 The Dead Sea Scrolls

In 1947 hundreds of ancient scrolls - including biblical texts and sectarian documents - were discovered in caves overlooking the Dead Sea. In this course we will examine the scrolls in an effort to learn more about the world of Second Temple Judaism, the history of the biblical texts, and the lifestyle and religious ideas of a small sectarian

RELI-3456 Digging for the Truth: Archaeology, Bibles, and Popular Media

This course explores the intersection of archaeology, the bibles, and popular media. More specifically, it explores how the popular media uses archaeology and the bibles to create history, and how their process differs from an academic approach. Some questions that will be addressed include: What is archaeology and how is it done? What can archaeology teach us? What can't archaeology teach us? What role should the biblical literature play in writing history? How does popular media's use of archaeology and the bibles differ from the historian's use of archaeology and the bibles? What kinds of motives - political, economic and religious - factor into the equation? Prerequisite:

RELI-3481 Native American Religions

This course is an overview of Native American religious traditions in the United States. Topics covered may include Native revitalization movements, traditional Pueblo and Sioux dances, Native Christianity, modern Native religious thought, Peyote religion, issues of gender in Native American religion, boarding schools and Americanization, the role of white Christian missionaries, and the modern Native American evangelical movement. (Offered every other year.) Prerequisites: RELI 1360 or HIST 1360 or consent of instructor

RELI-3482 African Religions in the Americas

This course will focus on the African religious traditions that developed into new expressions of faith in the United States, Caribbean, and Latin America. In this course we will cover a variety of religious traditions, including African-American Christianity, Santeria, Candomblé, Vodou, Rastafarianism, Islam, and folk practices such as the "conjuring" tradition. This course will also explore the role of gender within African/African-American traditions and issues of religion and social change such as the Civil Rights movement and Liberation Theology. Prerequisite: RELI 1360 or consent of instructor

RELI-3-90 Reading and Conference

Individual work under supervision in areas not covered by other courses. Prerequisites: 12 semester hours in religion and approval of the department chair and instructor.

RELI-3-91 Special Topics in Religion

From time to time, the department will offer special topic courses not described in the Bulletin. The topics may be in any area and may be offered at the initiative of departmental faculty or upon petition of interested students.

An inquiry into the nature of religion and ways in which it is studied and described; topics may include self and other within religious traditions religious pluralism, comparative studies of religion, sociological and psychological functions of religion, and the relation between religion and culture. (Offered every year). Prerequisite: 3 courses in Religion This course is normally taken in the Junior or Senior year

The Core (9 hours)

I. Computation

CSCI 1320	Principles of Algorithm Design
CSCI 2323	Scientific Computing

II. Calculus

MATH 1311	Calculus 1
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III. Advanced Quantitative Skills (6 hours) Take two of the following five courses:

- CSCI 3352
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-
-
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Sociology and Anthropology

Faculty

[Christine Drennon, Ph.D.](#) , Associate Professor

[Sarah Beth Kaufman, Ph.D.](#) , Assistant Professor

[Jennifer P. Mathews, Ph.D.](#) , Professor

[Alfred Montoya, Ph.D.](#) , Associate Professor

[Tahir H. Naqvi, Ph.d.](#) , Associate Professor

[Richard K. Reed, Ph.D.](#) , Professor

[Benjamin Sosnaud, Ph.D.](#) , Assistant Professor

[David Spener, Ph.D.](#) , Professor; Chair

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 24 hours must be in upper division anthropology courses chosen in consultation with the adviser. At least 28 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;
-

A study of the complex ways in which modern social organization materializes geographically. Topics include the distribution and movement of human populations, characteristics and distribution of cultural mosaics, patterns of economic interdependence, and the forces of cooperation and conflict among peoples from both global and local perspectives. (Also listed as URBS 1316).

SOCI-2306 Introduction to Social Psychology

This course examines the effects of culture and social structure upon the thoughts, emotions, identities, and behaviors of individuals – how the individual exists within society and how society exists within the individual. Topics include how language and stereotypes shape perception and prejudice; how birth order and family dynamics shape personality; television's impacts upon sexuality and aggression; the historical evolution of individualism; urban psychology; and how group dynamics influence the success of sports teams and the creativity of think tanks. (Offered every year.)

SOCI-2311 Sociology of Sex Roles

An analysis of social, psychological, and physiological approaches to the development of sex identity and sex roles. Differential socialization methods from infancy through adolescence will be examined along with the impact on both men and women of contemporary changes in sex roles. (Offered every other year.)

SOCI-2312 Sociology of Marriage and the Family Experience

An examination of the various structures and functions of the family as the basic social institution of society. Special attention will be given to conflict and change as it has occurred in modern industrial America resulting in a diversification of family types and mores. (Offered every year.)

SOCI-2314 Social Problems and Human Values

A documented and critical analysis of major social problems in the United States, in a global as well as national context. This course aims at providing an understanding of the structure of society and of the underlying causes and conditions that maintain social problems. Special attention will be given to how we think about social problems: the social definitions of problems, the role of ideologies, the role of mass media, and the impact of these social processes on social policy formation. Students will explore their personal values in response to social issues in such areas as health, work, children's welfare, and the environment. (Offered every year.)

SOCI-2323 Deviance: Social and Personal

An analysis of the current theoretical perspectives on deviant behavior and an examination of deviance in the context of the social-political conditions of contemporary society. Selected empirical studies will be used to examine specific problems, theory, and societal definitions and responses to deviance. (Offered occasionally.)

SOCI-2328 Social Inequality

A study of the stratification of American society in terms of the unequal distribution of wealth, status, and power. Theories on the origin and development of social classes as well as of the functional necessity of social inequality will be examined along with empirical works dealing with inequality. (Also listed as URBS 2328). (Offered occasionally.)

SOCI-2335 The Sociological Imagination

A critical survey of classical social theory of the 19th and early 20th centuries. The course will also examine the subsequent emergence of theories regarding other dimensions of social life – such as race, gender, sexuality, generational phenomena, and modern communication technologies – that classical theory did not adequately address. (Offered every Spring.)

SOCI-2339 Health, Illness, and Society

This course introduces students to medical anthropology and the sociology of health and illness. The course focuses on 1) factors influencing morbidity/mortality and health/well-being and the forces conditioning the uneven distribution of these states; 2) cross-cultural experiences and meanings of health and illness; 3) the wide range of strategies, techniques, and ways of knowing, apprehending, treating, and preventing sickness, of which contemporary biomedicine is but one. (Offered every Fall.) (Also listed as ANTH 2339.)

Sociology Courses - Upper Division

SOCI-3313 Social Movements

the development of the North American urban system to the experiences of neighborhoods within cities. (Also listed as URBS 3340.) Prerequisite: At least 3 hours completed in Sociology.

SOCI-3343 Relaciones fronteras Mexico-Estados Unidos (bilingue)

In this seminar we will examine a variety of social, cultural, political, and economic phenomena that characterize the Mexico-US border region. Includes an optional overnight excursion to communities located on the international boundary itself. This course is part of the Spanish across the Curriculum component of Trinity University's International Studies Program. It is conducted bilingually in Spanish and English, i.e., in both languages of the

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-3347 The Aging Revolution

With an estimated 20 percent of everyone who has reached the age of 65 being now alive, it is not surprising that the United Nations proclaimed 1999 to be the International Year of Older Persons. Contemporary generations, particularly those in developing nations, are among the first in history to be raised with the expectation of old age, forerunners of a longevity revolution that will be felt for centuries to come. Using the theoretical and methodological tools of the social sciences, this course investigates both the personal and social ramifications of this great demographic event, developing the interrelationships between the biological, psychological, social, and cultural aspects of old age. (Offered every other year.)

SOCI-3348 Death and Dying

A critical overview of the social and cultural sources of humanity's outlooks and practices toward dying and the dead. Beginning with historical and cross-cultural analyses of death systems, the course proceeds to develop sociologically the roles of religion, philosophy, psychology, science, politics, and medicine in shaping orientations toward war, abortion, suicide, environmental destruction, organ transplants, euthanasia, funerary ritual, and capital punishment. It concludes with analyses of the experiences of those who die and those who survive. (Also listed as ANTH 3348.) (Offered every other year.) Prerequisite: Junior standing (includes rising juniors.)

SOCI-3349 Globalization and Social Change

Study of the relationship between economic development and social change at the international level. Examines

Anthropology Courses - Lower Division

contemporary biomedicine is but one. (Offered every Fall.) (Also listed as SOCI 2339.)

ANTH-2340 Seeds of Change: Food Commodities of the Nineteenth Century

This course will spend the semester focusing on food commodities of the 1800s to provide insight into the cultural traditions, politics, working conditions, social class, gender, and racial tensions the 19th century. Many of these edible goods have deep histories beginning in prehistoric times, which come to a head during the 19th and early 20th century when they become major food commodities on the world market. In this course, we will use a wide array of literature from anthropology, history, and food studies to examine how food commodities are a reflection of the revolutionary and tumultuous times of the nineteenth century, and will reveal the daily life of their producers, traders, and consumers.

ANTH-2357 Humans and the Environment

The seminar will analyze humans' relationship with the natural environment. It will first focus on cultural adaptation to natural resources, with case studies drawn from African foragers, South American gardeners, and Asian farmers. The course will also analyze the effects of contemporary development, focusing on the destruction of the rainforest. The class will try to create new models for development from indigenous peoples' use of tropical resources. (Offered every year.)

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

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. (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-3331 Language, Culture, and Society

Students will analyze the functions of language in everyday life in various cultures, including the role of language in the social production and reproduction of power relations, stratification, gender roles, the formation of racial and ethnic identities, and in the process of social change. (Also listed as SOCI 3331.)(Offered occasionally.)

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.)

ANTH-3343 Relaciones Fronterzas Mexico-Estados Unidos (bilingue)

In this seminar we will examine a variety of social, cultural, political, and economic phenomena that characterize the Mexico-United States border region. Includes an optional overnight excursion to communities located on the international boundary itself. This course is part of Spanish across the Curriculum component of Trinity University's International Studies Program. It is conducted bilingually in Spanish and English, i.e. in both languages of the Mexico-U.S. border region. Competence in speaking, reading, writing, and listening in both Spanish and English is a requirement for participation in the course. (Also listed as LAC 3343 and SOCI 3343)(Offered occasionally.) Prerequisites: Completion of SPAN 2302 or equivalent Spanish competence

ANTH-3345 International Issues in Health and the Environment

This course explores social factors, such as inequality and power, in creating environmental conditions that affect global health, focusing on marginalized regions and people. Case studies will explore historical colonization and urbanization and control of natural resources, in their degradation of the environment, effects of climate change,

and risks to human and environmental health. (Also listed as ANTH 3345)(Offered occasionally.) Prerequisite: At least 3 hours completed in SOCI or ANTH.

ANTH-3445 Understanding Refugees

An interdisciplinary study of the refugee experience from global and local perspectives. The course will examine how the human rights of refugees are understood from the points of view of international law, humanitarian 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 host countries will also be examined. Includes a directed field research

ANTH-3368 Anthropological Ethics

This course will analyze ethical case studies and their ramifications in socio-cultural anthropology, physical

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-472 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 Seminar

Topics will vary as necessitated by student interest. A student may repeat the course if the topics are different for a maximum of nine semester hours. (Offered occasionally.) Prerequisite: Consent of Instructor.

ANTH-4395 Senior Thesis

Students will conduct research on a topic of their choice and produce a written thesis under the supervision of at least two tenured or tenure-track members of the Trinity University faculty, at least one of whom must hold a Ph.D. in Anthropology. To graduate with honors in the major, students must enroll in this course in each of their last two semesters at Trinity. Students should contact the chairperson of the Department of Sociology and Anthropology for more information about procedures to follow for writing a senior thesis. (Offered every semester.) Prerequisites: Consent of instructor and Senior standing.

designed to accommodate those students who want to pursue specialized study in the accounting, finance, business analytics and technology, international business, and business concentrations in either marketing or management). The Bachelor of Arts degree is designed for the students who do not wish to pursue an in-depth study of one of the areas in business, but who wish to undertake a double major, where one of those majors is business. These degree programs are

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 (21 hours):

I. Required courses (18 hours): ACCT 1302, 3341, 3342, 3343, 4344, and BUSN 3341.

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
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.

Although not a requirement for the major, the norm is that students also complete a paid internship (ACCT 4697) during their senior year. Because the sequencing of courses is critical for students to be able to do so and to otherwise complete the academic requirements for the B.S. degree in four years, the following guidance is provided.

1. Year 1 & 2: Students should enroll in ACCT 1301, ACCT 1302. Students who intend to study abroad as a part of their major requirements should plan on completing study abroad prior to their junior year or during a summer.
2. Junior: Fall semester ACCT 3341, ACCT 3343; Spring semester ACCT 3342.
3. Senior: Fall semester ACCT 4344; Spring semester ACCT 4697, BUSN 3341, and BUSN 4301.

Note that a student intern will be enrolled for only 12 hours during the spring semester of the senior year; therefore, it is imperative that a minimum of 112 hours have been completed by the end of the fall semester senior year and that BUSN 3341 and BUSN 4301 be deferred until the spring semester senior year.

Prospective students should also note that the State of Texas requires that a CPA candidate complete a minimum of 150 credit hours in order to take the Uniform Certified Public Accountant Examination. This major only partially satisfies those educational requirements, so a student intending to sit for the CPA exam will also need to complete graduate study in accounting. The Department of Accounting in the School of Business offers a two-semester Master of Science in Accounting degree program which, in combination with the B.S. in accounting, completes the hour credit and course requirements for CPA candidacy. Students interested in learning more about the accounting program should contact the Chair of the Department of Accounting for additional information.

Master of Science in Accounting Degree

The Master of Science in Accounting program is a two-semester program that typically is undertaken as a fifth year of study by students who have completed the Bachelor of Science degree in Accounting. The program is structured to develop and perfect technical, theoretical, and interpersonal skills required of accounting professionals. Upon completion of an undergraduate accounting degree and the Master of Science in Accounting program, the student will have satisfied the educational requirements for the Uniform Certified Public Accountant Examination in the state of Texas.

The requirements for full admission to the program include:

- Senior standing as an undergraduate student, with a baccalaureate degree
- Completion of six undergraduate Accounting courses: (ACCT 1301, 1302, 3341, 3342, 3343, 4344) or their equivalent with acceptable grades. Students who do not have an undergraduate business degree will need three additional business courses to meet CPA exam requirements in Texas.
- A grade point average of 3.00 or better on the last 60 hours of undergraduate level work and an average of 3.00 or better in upper division Accounting coursework.

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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.

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

The requirements for the Bachelor Science in Business Analytics and Technology degree are as follows:

I. One of MATH 1305 or MATH 1311; and one of CSCI 1311 or 1320.

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. Business analytics and technology major requirements (13 hours): BAT 1101, 3303, 3305; 3304, and 4301.

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 sufficient to bring the total credit hours outside of the School of Business to at least 60.

VI. 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 Finance Degree

The requirements for the Bachelor of Science in Finance 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. Finance major requirements (24 hours):

A. Required courses (18 hours): FNCE 3352, 3362, FNCE 3351, FNCE 3361, and ACCT 3341, 3342.

B. Elective courses (6 hours): FNCE 3363, 3366, 4362, 4363, or 4366.

IV. A grade of C or higher in FNCE 3301.

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

VI. Completion of electives 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.

It is critical for students to plan their coursework carefully because many courses are fall-only or spring-only offerings. To complete the academic requirements for the B.S. degree in four years, the following guidance is provided.

Students who intend to study abroad as a part of their major requirements should plan on completing their study abroad **either prior to their junior year or during a summer term.**

1. Sophomore spring semester or junior fall semester F NCE 3301.
2. Junior fall semester F NCE 3301 (if not already taken) and ACCT 3341.
3. Junior spring semester F NCE 3352, F NCE 3362, and ACCT 3342.
4. Senior fall semester F NCE 3351/ECON 3356

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 to students who would like to explore the subject of business in depth but whose primary interests lie elsewhere.

ACCT-1301 Fundamentals of Financial Accounting

An introduction to business and the basic concepts of financial accounting. The course incorporates identifying,

pensions, leases, and other contemporary accounting topics. Prerequisite: ACCT 3341.

ACCT-3343 Introduction to Federal Income Tax

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

ACCT-3-90 Studies in Accounting

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

ACCT-4344 Auditing

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

ACCT-4097 Accounting Internship

The accounting internship is a structured full-time eight-week internship under the supervision of accounting professionals in either private or public practice. This not-for-credit 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: Senior Standing, major in accounting and approval of the instructor.

ACCT-4397 Accounting Internship

The accounting internship is a structured full-time eight-week internship under the supervision of accounting professionals in either private or public practice. This not-for-credit 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: Senior Standing, major in accounting and approval of the instructor.

ACCT-4697 Accounting Internship

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

Business

BUSN-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 PHIL 2359). PHIL 1354 and BUSN 2359 may not both be taken for credit.

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, 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. (Offered every other year).

BUSN-3338 Government Regulation of Business

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

BUSN-3340 Haciendo Negocios En Latinoamerica (Doing Business in Latin America)

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

BUSN-3341 Legal Concepts of Business II

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

BUSN-3344 Economic and Business History of the United States to 1865

A study of the development of American business and the economy through the U.S. Civil War. (Also listed as ECON 3344 and HIST 3338). Prerequisites: ECON 1311 and 3 hours of U.S. history or consent of instructor.

BUSN-3345 Economic and Business History of the United States Since 1865

A study of the development of American business and the economy from the U.S. Civil War to the present. (Also listed as ECON 3345 and HIST 3361). Prerequisites: ECON 1311 and 3 hours of U.S. history or consent of instructor.

BUSN-3355 Entrepreneurship and Venture Planning

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

Admission to the major in Business Administration, completion of at least 15 hours of the core curriculum in Business Administration, Junior standing, and consent of instructor.

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 Junior 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: 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

BUSN-4301 Business Policy and Strategy

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

BUSN-4364 Internationalizing Intellectual Property

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

Business Analytics and Technology

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 Oper3 y9 a f Facility Lonttic egypty, , Sratmrudasteyappmces. Tess Coations blytics atde

Analysis of common stock, bonds, options, and futures. Topics include financial markets, valuation of securities, technical analysis, market efficiency, and portfolio theory. Prerequisites: FNCE 3301 and Junior standing.

FNCE-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 Financial Management and Policy

Advanced study of financial theories and practices. Emphasis on case studies to develop analytical thinking about problems faced by business firms. Topics include capital budgeting, risk analysis, leasing, bankruptcy, and mergers. Prerequisites: FNCE 3301 and 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 3301, 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 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). Corequisite: 15 hours of FDS core Prerequisite: Consent of internship coordinator and Finance & Decision Sciences department chair.

FNCE-4362 Derivatives

Derivatives are financial assets that are now essential tools for investors, corporations and financial institutions to manage risk. This course represents advanced study in the way that these assets are developed and marketed, how they operate, and how they are used. Special emphasis is given to the understanding of how markets come to price these sometimes complicated financial assets. This course provides tools necessary to manage risk, and to value and utilize derivatives in a variety of contexts. Prerequisites: FNCE 3352 - Investments

FNCE-4363 Student Managed Fund II

A continuation of FNCE 3363. Mentoring and leadership of FNCE 3363 students. Continued and advanced student of security analysis and portfolio management with practical demands of hands-on money management. Provides opportunity to invest university endowment funds. Advanced investments and portfolio management related learning experience tailored to individual student interests. Prerequisites: FNCE 3301, 3352, 3363, and consent of instructor.

FNCE-4366 Advanced Financial Management

A capstone corporate finance class focusing on advanced financial management decision-making in capital budgeting, dividend policy, capital structure, and corporate restructuring. The format of the course is seminar style in that the majority of the classes will be interactive and case-based. (Offered every Spring.) Prerequisites: FNCE 3301 and FNCE 3362

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). Prerequisites: Junior standing and 6 hours of Business Administration or consent of instructor.

INTB-3346 La economía española 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 ECON 3346, SPAN 3346, and LAC 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.

INTB-3361 International Business Law

Surveys the law of international trade and investment, with an emphasis on: comparative features of the world's various legal systems; international sales of goods and services; U.S. and international trade law and practice, documentary sales and letters of credit; the law of international organizations such as the World Trade Organization (WTO) and the European Union (EU); bilateral and multilateral treaties and international agreements such as North American Free Trade Agreement (NAFTA) and the Trans Pacific Partnership (TPP); laws and regulations governing foreign direct investment (FDI), agency and distribution agreements, and protection of intellectual property rights (IPR's) at the international level. (offered every Spring). Prerequisite: BUSN 3302 or consent of instructor.

INTB-3363 International Business Research

This course is offered to encourage undergraduate research. It provides a systematic examination of research as a science and the diverse methods available to conduct international business research, including coverage of both qualitative and quantitative techniques. Emphasis is upon fieldwork (e.g. interviews and surveys in China, US, Latin America or Europe) to collect original data, conduct analysis and interpret results within the context of international business. (Offered once a year). Prerequisite: Junior Standing and 15 hours of business core courses, or Consent of Instructor.

INTB-3365 International Innovation

This course focuses on significant inventions and their patents, and their impact on society, industries, companies, and individual inventors. It also examines how patent systems across nations work to promote and undermine inventive activities. Case studies and data analysis form the main thrust to enhance learning by examining historic landmarks and contemporary breakthroughs. Participants will also examine how patented inventions are often accompanied by disputes. Participants in this course will also have opportunities to simulate a licensing contract. (Offered every Spring). Prerequisites: junior standing and 15 hours of business core courses, or consent of the instructor

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

Marketing

MKTG-2301 Principles of Marketing

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

MKTG-3361 International Marketing

Examination of the international marketing environment from the perspective of a marketing manager. Includes the study of the nature of and problems and opportunities in the global marketplace. Strategic application of marketing principles to compete effectively in world markets. Prerequisites: MKTG 2301 and Junior standing, or consent of instructor

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. May be repeated when topics vary. Prerequisite: MKTG 2301, and junior standing, and consent of instructor

MKTG-4381 Marketing Management

The role of marketing in business and society. The management of the marketing function and its interrelationship with other functional areas within the organization. Problems, decisions and the decision-making process of marketing managers. Strategy formation, execution, and control. (Offered every year). Prerequisite: MKTG 2301, 3381, 3383, and senior standing.

MKTG-4385 Marketing Consultancy

The marketing consultancy course offers students direct and meaningful experience in tackling real-world consulting problems and projects. The class is oriented towards real-time problems and situations encountered by actual small business and non-profit organizations. The nature of each client project may differ, but clients are selected based on opportunities to integrate various aspects of marketing discipline, such as branding, strategic market planning, and integrated marketing communication (Offered every Spring.) Prerequisite: Consent of Instructor - Students must apply to be accepted to enroll in this course

MKTG-3-91 Applied Marketing

Supervised project designed for students wishing to gain experience in applied research in marketing. Credit from one to six hours. May be repeated for different projects. (Offered occasionally). Prerequisites: Consent of instructor

MKTG-3-92 Special Topics in Marketing

Classroom based instruction on topics not normally covered in other course offerings. Credit from one to six hours. May be repeated when topics vary. (Offered occasionally). Prerequisites: Consent of instructor

MKTG-3-97 Marketing Internship

The Marketing 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

Graduate Courses

ACCT-5341 Accounting Theory

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

ACCT-5342 Accounting Information Systems

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

ACCT-5347 International Accounting

An analysis of the issues involved in Accounting

Sport Management

Faculty

[Carolyn Becker, Ph.D.](#) , Professor, Psychology

[Jennifer Jacobs Henderson, Ph.D.](#) , Professor, Communication

[Rita Drieghe Kosnik, Ph.D.](#) , Professor, Business Administration

[David Lesch, Ph.D.](#) , Professor, History

[John McGrath, Ph.D.](#) , Professor, Human Communication and Theatre

[Dominic G. Morais, Ph.D.](#) , Assistant Professor, Business Administration

[Jacob K. Tingle, Ed.D.](#) , Assistant Professor of the Practice of Business Administration; Director

[Darryl Waldron, Ph.D.](#) , Professor, Business Administration

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*
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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 1106	Sport Officiating Laboratory* (also listed as SPMT 1106)
PHED 1165	Intramural Programming (also listed as SPMT 1165)
SPMT 1106	Sport Officiating Laboratory* (also listed as PHED 1106)
SPMT 1165	Intramural Programming (also listed as PHED1165)
SPMT 1306	Sport Officiating
SPMT 1314	Athletic Facility and Event Management
SPMT 3108	Sport Sales Laboratory*
SPMT 3312	Ethics in Sport Management*
SPMT 3314	History of American Sport*
SPMT 3315	Financial Aspects of Sport Management*
SPMT 3316	Leadership for Sport Professionals
SPMT 3317	Sport Media (also listed as COMM 3357)
SPMT 3319	Sport and Sponsorship Marketing
SPMT 3-90	Directed Study in Sport Management*
SPMT 3-99	Sport Management Internship*
SPMT 4301	Organizational Theory in Sport Management*
SPMT 4302	Seminar in Contemporary American Sport*

D. Six elective hours from the following courses:

A. Communication and Marketing

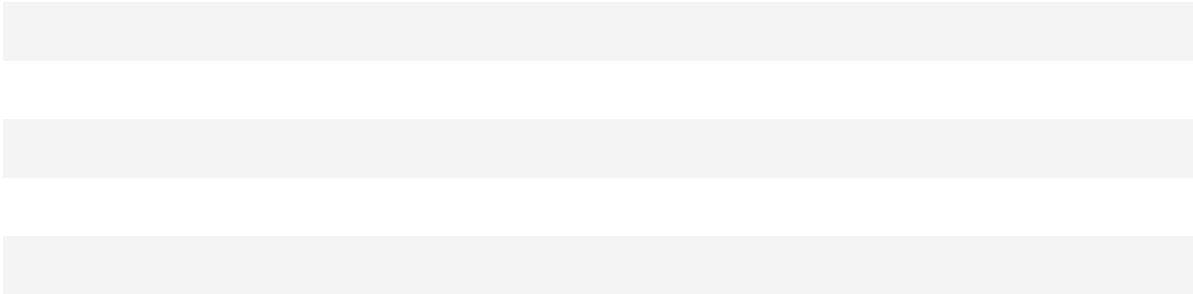
COMM 3360	Principles of Public Relations*
COMM 3361	Principles of Advertising*
HCOM 1333	Public Speaking
MKTG 3381	Consumer Behavior*
MKTG 3382	Integrated Marketing Communications

B. Finance

ACCT 1302	Fundamentals of Managerial Accounting*
FNCE 3301	Financial Administration of Business Firms*
FNCE 4351	Financial Management and Policy*

C. Management

BUSN 3311	Organizational Communication (also listed as HCOM 3362)
ECON 3327	Sports Economics



and teach their classmates the rules, regulations, and policies for that particular sport or recreational activity and then participate in that event as a group. (Also listed as PHED 1165)

SPMT-1306 Sport Officiating

The purpose of this class is to provide students a meaningful educational experience of both a practical and theoretical nature in the area of sports officiating.

SPMT-1312 Sport in Society

A study of contemporary issues in sport and the impact sport has on society. Topics that will be critically analyzed 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,

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.

Explores the opportunities and evolving nature of the sports marketing industry, while studying and analyzing in-market campaigns aligned with some of the world's most notable sports properties and brands. Prerequisites:

Urban Studies

Faculty

[Christine Drennon, Ph.D.](#) , Associate Professor, Sociology and Anthropology

[Keesha Middlemass, Ph.D.](#) , Associate Professor, Political Science

[Tahir H. Naqvi, Ph.D.](#) , Associate Professor, Sociology and Anthropology

[Kathryn O'Rourke, Ph.D.](#) , Associate Professor, Art and Art History

[Nels Christiansen, Ph.D.](#) , Associate Professor, Economics

[Kenneth Loisselle, Ph.D.](#) , Associate Professor, History

[Patrick Shay, Ph.D.](#) , Assistant Professor, Health Care Administration

[Curtis Swope, Ph.D.](#) , Associate Professor, Modern Languages and Literatures

[David Spener, Ph.D.](#) , Professor, Sociology and Anthropology

[Amy L. Stone, Ph.D.](#) , Associate Professor, Sociology and Anthropology

Overview

Urban Studies is an interdisciplinary field that focuses on the global phenomenon of urbanization. The program incorporates a wide variety of disciplinary approaches to the study of urbanization and urban processes. Students may choose an Urban Studies major to explore the city from a diversity of perspectives, or to prepare for a career in one of the many fields that touch on urban life. Urban Studies majors have extensive interaction with the city in research, class projects, and internships.

Requirements

The Major

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

I. Specific degree requirements (34 credit hours total):

A. The Core Curriculum (6 credit hours)

URBS/SOCI 1310 The Urban Experience

URBS 3370 Applied Urban Studies

B. Methods Requirement (3 credit hours):

All urban studies majors must take one methods class from the following list. With the approval of their advisers, students will choose the course most appropriate to their own interests in the field.

ART 1410	Design
ART 2430	Beginning Drawing
URBS/SOCI 3365	Research Methods: GIS
URBS/SOCI 3460	Research Methods: Social Statistics
SOCI 3353	Research Methods: Fieldwork
HIST 3381	Historians and Their Craft
GEOS 3408	GIS and Remote Sensing

C. Concentration Requirement (15 credit hours):

Students must complete 15 credit hours (minimum) from one of the following concentrations:

The **Urban History and Form** concentration introduces students to major problems in the history of urban planning, architecture, and landscape architecture, and provides a foundation for graduate work in planning, architecture, and design.

The **Urban Issues and Policy** concentration introduces students to contemporary issues impacting urban society, and prepares students for graduate programs in public policy, public administration, urban planning, and many of the social sciences, and for careers in non-profit organizations, education, government, and consulting.

Concentration Lists (classes must come from at least three different disciplines):

Urban History and Form

ARTH 1412	Art and Architecture of Latin America Since the Sixteenth Century
ARTH 3452	Nineteenth-Century Architecture and Urbanism
ARTH 3454	Mexico City
ARTH 3461	Public Art Across the Border
ARTH 3464	Twentieth-Century Architecture and Urbanism
GEOS 1304	Environmental Geology
ECON/URBS 3334	Urban Economics
HIST 3333	History of Paris

GRST 3307	Berlin: From Cabarets to Communists
SOCI/URBS 3340	Urban Geography
URBS 4-91	Special Topics in Urban Studies [as appropriate]

Urban Issues and Policy

URBS/ANTH 4352	Global Cities
URBS/ANTH 3445	Understanding Refugees
ARTH 3461	Public Art Across the Border
HCAD 3350	The U.S. Healthcare System
SOCI 2314	Social Problems and Human Values
SOCI/URBS 3340	Urban Geography
ECON 3323	The Economics of Government
ECON/URBS 3334	Urban Economics
PLSI 3313	Policy Analysis and Policymaking
PLSI 3316/URBS 3336	Urban Politics
URBS 4-91	Special Topics in Urban Studies [as appropriate]

D. Elective Requirement (6 credit hours): taken from the other list or the methods list.

E. Distribution Requirement:

No more than 12 of the hours used to satisfy the major requirements (including crosslisted courses) may come from any one department. No more than 12 credit hours may be from lower-division courses.

F. The Senior Experience (4 credit hours)

URBS 4494	Senior Seminar
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II. University requirements: completion of all other required elements of the Pathways curriculum and at least 124 credit hours.

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-3336 Urban Politics

An exploration of the urban space, including the politics, institutions, power centers, policies, and the people who live in urban environments. Emphasis is given to why cities matter, how cities are organized, how cities operate as an economic engine, and how cities shape identity and experiences while producing inequality. Contemporary urban issues are considered, such as demographic changes, community power, and public transportation. (Also listed as PLSI 3316).

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

writing and rewriting, learning how to formulate and test research hypotheses, and understanding how to present results in an accurate and effective manner. (Also listed as SOCI 3460 and ANTH 3460). (Offered every Spring.)
Prerequisite: ANTH or SOCI 3359

URBS-3365 Research Methods: GIS

This course provides a hands-on approach for learning how to undertake spatial social research focused on the design and completion of a semester long research project. Spatial tools introduced emphasize geographic information systems. The course goals include map making and the integration of information technology and cartography. (Also listed as SOCI/ANTH 3365). (Offered every year.) Prerequisite: SOCI 3359 or ANTH 3359.

URBS-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, 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

URBS-3445 Understanding Refugees

An interdisciplinary study of the refugee experience from global and local perspectives. The course will examine how the human rights of refugees are understood from the points of view of international law, humanitarian 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 host 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-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

primary data collection, analysis, and presentation. Projects are true synthesis of the various discipline perspectives of the city and urban issues.

Women's and Gender Studies

Faculty

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	Greek and Roman Drama (also listed as CLAS 3403 and THTR 3325)
ENGL 3427	Contemporary Literature
ENGL 3337	Literary Theory
ENGL 3471	Studies in American Literature: American Women Writers of the Nineteenth Century
ENGL 3375	Postmodern Literature

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)

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
WAGS 3-19	Queer Studies Colloquium

Note: Special topics courses are approved by the advisory committee only for the specific topic listed.

Courses

WAGS-2310 Introduction to Women's Studies

A feminist perspective on work, family, sexuality, identity formation, class stratification, racial and cultural diversity, and cultural representations of gender. Overview of the history of the women's movement and historical and contemporary debate among feminists.

WAGS-2350 Introduction to Feminist Theory

An introduction survey of feminist theory, both as an intellectual, philosophical tradition and as a program of political activism. At the discretion of the instructor, this course may entail a history of feminist theory; an engagement in specific debates or school of criticism; and/or involvement in community activism.

WAGS-2351 Intro to Queer Studies

An introduction to the interdisciplinary field of Queer Studies. Topics may include a historical survey of homosexuality and the Gay Rights movement; queer theory; psychoanalysis and psychology of sexuality; film and media studies; discussion of current events.

WAGS-2352 Introduction to Gender Studies

An introductory survey of the interdisciplinary field of gender studies. Topics may include masculinity and men's studies; feminism and the construction of femininity; sexuality and queer theory.

WAGS-3-17 Gender Studies Colloquium

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 suitable forum for such work, whether on or off-campus, and to arrange for their own employment. Students may also apply to intern with the Women's History Month Planning Committee. Consent of Women's and Gender Studies program co-chairs required.

WAGS-3-75 Science, Gender, and Sexuality Colloquium

This team-taught course investigates scientific approaches to sexuality and gender. To be taught by faculty from various scientific disciplines. Prerequisite: WAGS 2350, 2351, or 2352, or consent of instructor.