



# Course of Study Bulletin 2015-2016

Undergraduate and Graduate Studies Effective June 2015 for the 147th Academic Year.

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# CoSB Guidelines

## Academic Regulations

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## Credit Hours

included in all course syllabi.

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.

# Classification of Students

Students are classified on the following basis:

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

# Grades

## GRADING SYSTEM

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

A	Excellent	4.000
A-		3.667
B+		3.333
B	Good	3.000
B-		2.667
C+		2.333
C	Adequate/Average	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.

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

## Grade Point Average

The student's overall evaluation is stated in terms of a grade point average. This average is obtained by dividing the number of grade points earned by the number of hours of work attempted in courses which carry grade points. The student's cumulative grade average is obtained by dividing all grade points earned throughout enrollment at Trinity University by the number of credit hours attempted in courses that carry grade points. Only grades in courses taken in residence at Trinity University will factor into the grade point average.

If a student repeats a course at Trinity, all grades for the course will be used in computing the grade average. Only courses that are specifically designated may be repeated for credit. All other repeated courses will be shown on the permanent record as repeated with grades listed and duplicate credit, if any, deleted.

## 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







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



# Transcripts of Credit

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

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

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

# Academic Standing

## GOOD STANDING

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

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

## SATISFACTORY ACADEMIC PROGRESS

1. 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:
  1. Students must average at least 12 hours per semester.
  2. Students must complete at least 24 hours per academic year unless on an officially approved leave.
  3. Students who enroll mid-year must complete at least 12 hours prior to the start of the fall semester.
  4. Summer hours earned after matriculation may be included in the calculation of SAP.
  5. Credit by examination and transfer hours earned prior to matriculation may not be included in the calculation of SAP.
2. 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.

### 3. Transfer Students

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

#### SATISFACTORY PROGRESS REQUIREMENTS FOR UNDERGRADUATE FINANCIAL AID RECIPIENTS

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

## Probation and Dismissal

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

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

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

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

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

To remove the probation, the student must earn a 2.0 semester average the following semester and continue to maintain the required cumulative average. Students who earn a satisfactory semester average (at least 2.0) and make substantial progress toward achieving the required cumulative average (usually 2.0) in the next semester will be continued on probation. Students who fail to remove probationary status and do not satisfy the requirements to be continued on probation within one semester will be placed on temporary dismissal from the University for one semester. Exceptions to this policy may be granted in extenuating circumstances on appeal from the student to the Academic Standing Committee.

Students placed on temporary dismissal must apply to the Office of the Registrar for readmission at least one month before the start of the semester for which they want to re-enroll. If readmitted, the probationary student has





## 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:
  1. The recommended standard for awarding credit is at least 40 hours of work per one hour of academic credit.
  2. A maximum of 6 credit hours per experience is allowed.
  3. A maximum of 6 hours of internship credit may be applied to a Trinity degree.
  4. 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



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 encompasses the start date of the work experience. However, if the internship or academic work following the internship carries over into the next semester (or summer term), the course can be registered in that following semester or summer term.
6. The university recognizes that internships will not necessarily conform to university semester and summer schedules; there will be times that students must receive an Incomplete grade ( I ) until the experience is completed.
7. Students will comply with all applicable state and federal employment laws; students will also comply with the human resources policies of their work location.

### **INTERNSHIP INSTRUCTOR GUIDELINES**

1. Approve and sign the Internship Learning Agreement form prior to the start of the internship.
  2. Ensure the student is properly enrolled for the internship course.
  3. Establish and communicate to the student specific learning goals, academic assignments and expectations prior
- 2.

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.

# Course Numbering and Abbreviations

## Course Numbering

Course numbers at Trinity University consist of four digits. The first digit indicates the level of the course: 1 or 2 designates lower division, 3 or 4 designates upper division, 5 or 6 designates graduate level. The second digit

<b>Classical Studies:</b>	
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
<b>Health Care Administration:</b>	
Health Care Administration Executive Program	HCAD HCAI
History	HIST
<b>Human Communication and Theatre:</b>	
Human Communication Theatre	HCOM THTR
Humanities	HUMA
International Studies	INTL
Languages across the Curriculum	LAC
Linguistics	LING
Mathematics	MATH
Mathematical Finance	MFIN
Medieval and Renaissance Studies	MDRS

<b>Modern Languages and Literatures:</b>	
Modern Languages and Literatures	ML&L
Arabic	ARAB
Chinese	CHIN
French	FREN
German	GERM
Italian	ITAL
Russian	RUSS
Spanish	SPAN
<b>Music:</b>	
Music	MUSC
Music Ensemble	MUSE
Neuroscience	NEUR
Philosophy	PHIL
Physical Education	PHED
Physics	PHYS
Political Science	PLSI
Psychology	PSYC
Religion	RELI
Scientific Computing	SCOM
<b>Sociology and Anthropology:</b>	
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](#)
- [Curricular 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](#)
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## 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 na lex quw quiremenmenmcti quirpricu

Three optional Curricular Elements can further enrich a Trinity education:

1. Experiential Learning
2. Minors
3. 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

# 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.



designation of courses.

- Courses that enable students to engage in the scientific study of the natural world (natural sciences); and
- Courses that enable students to solve problems within a structured mathematical framework (quantitative reasoning).

## Curricular Element III: The Core Capacities

### 1. Written, Oral, and Visual Communication

Students should demonstrate the ability to communicate effectively in a variety of contexts and within a variety of media.

### Requirements:

To qualify for graduation with a bachelor's degree from Trinity, a student must fulfill the requirements for Written Communication (WC) and Oral and Visual Communication (OVC) in the following ways:

- A student must fulfill the Written Communication requirement by successfully completing two courses designated with the abbreviation WC, including one upper-division course. Only one of these requirements may

## 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.

### 3. 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 study abroad program.
- A student fulfills the Understanding Diversity requirement by successfully completing one course (totaling no

## Curricular Element IV: The Interdisciplinary Cluster

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

### Requirement:

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

The Interdisciplinary Cluster must be fulfilled by successfully completing three courses (totaling no fewer than 9 credit hours) from three disciplines in at least two disciplinary groups.\* These courses may be structured as a part of a faculty-designed Interdisciplinary Cluster or student-designed three-course learning experience that meets the above guidelines and is approved by the University Curriculum Council. All courses in the Interdisciplinary Cluster must be taken at Trinity University, and only one of these courses may be used to fulfill the requirements of the student's primary major.

Note: ID Clusters hold great potential to integrate Trinity's liberal arts and pre-professional programs and to encourage productive collisions among disciplines. Courses used to fulfill the Interdisciplinary Cluster requirement may also be used to fulfill Core Capacity requirements, a minor, or a second major. It is envisioned that most students will complete the Interdisciplinary Cluster by the end of their sophomore year.

\* For the purposes of this requirement, disciplines are the subjects as categorized by the subject codes used in the designation of courses.

## 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;

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.

## Graduation With Honors

### Departmental/Major Honors

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

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

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



Those pursuing a single Bachelor of Arts degree with a major in Music ARE eligible.

2. Candidates must have completed a minimum of 60 hours of primarily liberal arts coursework at Trinity by graduation. Candidates for election as juniors must have completed a minimum of 75 hours of primarily liberal arts coursework at Trinity at the time of the election.
3. Candidates must have completed at least one three-hour course in Mathematics at the level of calculus or higher. Pass/Fail work is not accepted.
4. Candidates must have completed at least one course in a foreign language at the intermediate level or higher. Pass/Fail work is not accepted.

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

Contact the Office of Academic Affairs for further information.

## Preprofessional Programs

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

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

## Health Professions Advisory Committee

The Health Professions Advisory Committee (HPAC) develops plans for students to progress through sequences of preparatory work required for postgraduate study in the professions of medicine, etc. Some are isorappropriate in t



committee in advising preprofessional students. For example, Texas state medical schools list the following prerequisites: one year of college English; one-half year of college calculus; two years of biology; one year of general and one year of organic chemistry; and one year of physics.

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

## Prelaw Advisory Committee

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

Academic Affairs; new students and other students without a declared major may consult the Office of Academic Affairs.

# Enrollment Information

- [Admission Policy](#)
- [Admission Minimum Course Expectations](#)
- [International Student Requirements](#)
- [Temporary Withdrawal](#)
- [Readmission to the University](#)
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- [Health Services, Health Record, and Insurance](#)
- [Credit From Other Institutions and by Examination](#)
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## Admission Policy

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

Factors that influence the admission decision include grade point average unweighted on academic solids, course rigor, class rank if reported, high school quality, writing, standardized test scores, recommendations from high school counselors and teachers, special talent and creativity, and contributions to school and community. Students who have attended other institutions of higher learning will receive credit for



credit approval and eligibility for financial aid is arranged through the International Programs Office. Note: Students receiving aid from Trinity, particularly students who have borrowed student loans, should consult with the Office of Financial Aid prior to taking a temporary withdrawal to determine what impact a temporary withdrawal may have on aid eligibility.

## Readmission to the University

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

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

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

## Registration

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

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

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

## Add/Drop Period

Students may add courses to their schedule through the sixth day of classes of a regular semester and through the fifth day of classes of a summer term. Students enrolled in a \_\_\_\_\_ing of the sN \_\_\_\_\_rt ia \_\_\_\_\_yn ifth day of classe

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

Withdrawal deadlines for classes offered for a portion of a semester are established as follows. A student may withdraw from such a class with a grade of W until the end of the third week of the course during the fall or spring semester, or the first week during the summer semester. After these dates, withdrawal will result in a grade of W.

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

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

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

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

## Health Services, Health Record, and Insurance

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

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

The Trinity University Health Services is a health care facility to be used by students in need of medical consultation. The service is staffed by registered nurses, and a family physician holds tri-weekly clinics by appointment. The range of service includes nursing assessment and care of illness, injuries and minor emergencies; throat cultures; administration of prescribed medications; limited laboratory testing; medical evaluation and treatment by a physician during clinic hours; and appropriate medical and dental referrals.

All students enrolled for nine or more hours of study must show proof of health and hospitalization insurance. This ensures that students can be treated in an emergency and minimizes the financial risk associated with serious illness or injury. Students who do not have a personal health insurance policy are required to purchase the group



# Credit From Other Institutions and by Examination

## Transfer Credit

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

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

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

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

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

Students should be aware of the following residency requirements:

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

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



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 will not be allowed for credit by examination which does not meet Trinity's own requirements.

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

## College Board Advanced Placement Program

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

## Cambridge University International Examinations

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

## International Baccalaureate Program

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

## Departmental Examinations

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

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 sumeO - to P e

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:

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

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

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

## Two-Year Program:

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

## Scholarship and Remuneration:

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

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

## Uniforms and Equipment:

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

## Courses:

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

### **MS 1101 FUNDAMENTALS OF LEADERSHIP AND MANAGEMENT 1 SEM. HOUR**

Organization of the Army and ROTC; career opportunities for ROTC graduates, and the military as a profession. Customs and traditions of the service. Development of leadership potential, First Aid, and Introduction to Map Reading.

### **MS 1102 FUNDAMENTALS OF LEADERSHIP AND MANAGEMENT 1 SEM. HOUR**

Leadership studies of problems facing junior leaders in today's Army in non-combat situations. Effects of

technological and sociological change on the military. Continuation of customs and traditions of the service. Development of leadership potential. Basic military skills training.

**MS 2201 SELF/TEAM DEVELOPMENT 2 SEM. HOURS**

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

**MS 2202 APPLIED LEADERSHIP AND MANAGEMENT 2 SEM. HOURS**

Military use of maps and terrain analysis with emphasis on practical experiences. Introduction to the leadership techniques required to conduct patrolling, tactical lessons,



## MS 5301, 5302 ADVANCED SEMINAR IN MILITARY ISSUES I, II 6 SEM. HOURS

Analysis of various topics concerning the principles of war and the contemporary operating environment. Analysis and discussion of various topics pertaining to the duties and responsibilities of a 2nd Lieutenant. Additional course options are special projects and Ranger Challenge participation based on guidance and approval of the Professor of Military Science.

Prerequisite: MS 4301 or 4302 or permission of the Professor of Military Science.

## Correspondence Study

Trinity University does not offer undergraduate academic work by correspondence and does not accept such work.

# General Information

- [Mission](#)
- [Independent Status, Charter, Covenant Accreditation](#)

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

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.

# Graduate Studies

Trinity University offers four graduate degrees: the Master of Arts (Education: School Psychology); the Master of Arts in Teaching; the Master of Education (Education: School Leadership); and the Master of Science (Accounting and Health Care Administration). Graduate work was instituted at Trinity University in 1950. The objective of the Graduate Program is to provide students with opportunities to engage in study at an advanced level and to develop professional competence in the area of their specialization, with emphasis upon the development of analytical thinking, independent and original research, and effective communication.

- [Commission on Graduate Studies](#)
- [Graduate Faculty](#)
- [Admission](#)
- [Advising and Registration](#)
- [Readmission](#)
- [Minimum Hour and GPA Requirement](#)

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:

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

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

## Advising and Registration



# Minimum Hour and GPA Requirement

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

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

## Applicable Bulletin

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

## Additional Requirements

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

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

## Graduation Requirements

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

A degree candidate must be present for commencement exercises unless he or she has notified the Registrar of his or her intention to graduate in absentia.

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

# Academic Load

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

# Transfer of Graduate Credit

Ordinarily, all work for the master's degree must be done at Trinity University. Under some circumstances acceptance of graduate credit for work done in other regionally accredited institutions may be approved by the chair of the department concerned. No course completed with a grade lower than a B will be approved. Up to 10 semester hours but no more than twenty percent of the total degree requirement can be transferred to apply toward a graduate degree. No hours earned toward a completed or previously awarded graduate/professional degree may be transferred. However, students with a previously awarded graduate/professional degree may have up to 10 semester hours but no more than twenty percent of the total degree requirement waived by the chair of the department. Students granted such a waiver may not transfer any credit to apply toward a graduate degree, except on petition to the Commission on Graduate Studies. Furthermore, the GPA of transferred credit will not be applied to meet the GPA requirement for a graduate degree at Trinity. No transfer credit will be accepted or waiver approved until the student has earned 12 semester hours of graduate credit at Trinity University. The six-year limit applies to transfer work as well as to courses taken in residence.

Courses offered by accredited universities at extension centers or other off-campus locations, or in online formats, will be evaluated individually by the Department Chair. Such courses will be accepted only when course requirements and quality standards comparable to regular on-campus offerings can be demonstrated. Credit for work done by correspondence will not be accepted for the graduate degree.

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

# Independent Study

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

# Grades and Minimum Performance Requirements

The grading system for all graduate courses is as follows:

A	Excellent, Superior Performance
B	Good, Solid Performance
C	Fair, Marginal Performance
F	Failure, not meeting course requirements
I	

1. A graduate student will be dismissed from the graduate program following any term in which the student earns a grade point average of less than 2.00, regardless of the level of courses taken and the cumulative grade point average.
2. A graduate student placed on academic probation will be dismissed from the graduate program if the student fails to meet the requirements to be removed from probation after attempting nine semester hours.

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 Faculty Development ask another faculty member of the department to receive the student's appeal.

3. If the student wishes to contest the outcome of the mediated discussion in step two, he or she may request a departmental review. To initiate this step in the appeals process, the student must submit a written appeal to the instructor's Department Chair no later than ten (10) business days after receiving the outcome of the mediated discussion.

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 course 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 the grade was not based on prejudicial or capricious evaluation, 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 the grade was indeed based on prejudicial or capricious 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 the student or the instructor wishes to contest the outcome of the departmental review in step three, he or she may request a further review by the Commission on Graduate Studies. To initiate this step in the appeals process, the student or the instructor must submit a written appeal to the Chair of the Commission no later than ten (10) business days after receiving the outcome of the departmental review.

The Commission may collect any evidence it deems necessary, including any written statements that have been generated in the previous stages of the appeals process. The Commission may choose to interview the concerned parties, and it may also choose to conduct a formal hearing.

For the purposes of this process, the voting members of the Commission shall include the faculty representatives on the Commission as well as the Registrar or his or her designee. No faculty member who belongs to the

department in question may participate in the Commission's deliberation or decision making.

If the Commission decides that the grade was not based on prejudicial or capricious evaluation, the Chair of the Commission shall give written notification of this decision to the student and the instructor. If the Commission determines that the grade was indeed based on prejudicial or capricious evaluation, the Chair 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

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

# 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 4325 Seminar in Literary Periods: Turn-of-the-Century African American Literature
- ENGL 4326 Seminars on Individual Authors: Thomas Pynchon and Toni Morrison
- HIST 1340 Latin American Cultural Traditions
- HIST 1360 The History of the United States Through Reconstruction
- HIST 1361 The History of the United States Since Reconstruction





# American Intercultural Studies

## Faculty

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

[Arturo Madrid, Ph.D.](#) , Norine R. and T. Frank Murchison Distinguished Professor of the Humanities, Modern Languages and Literature

[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:



# Arts, Letters, and Enterprise

## Faculty

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

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

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

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

[Luis E. Martinez, Ph.D.](#) , Director, Center for Innovation and Entrepreneurship

[Kate Ritson, M.F.A.](#) , Professor, Art

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

[Patricia Simonite, M.F.A.](#) , Professor, Art

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

[Jacob Tingle, Ed.D.](#) , Assistant Professor of the Practice of Business Administration; Co-Director

[Betsy Winakur Tontiplaphol, Ph.D.](#) , Ph.D., Associate Professor, English

## Overview

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

## Requirements

### The Minor

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

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

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- ANTH 3464 Morality and the Marketplace
- ART 3314 Issues in Contemporary Art\*
- ENGL 3314 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: Beethoven 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 3431 Memory and Cognition\*
- PSYC 3351 Clinical Psychology\*
- RELI 1320 Ethical Issues in Religious Perspective
- RELI All upper division courses
- SOCI 2306 Intro to Social Psychology
- SPAN 3321 Spanish Cinema\*

*\*This course has at least one prerequisite.*

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

## II. Completion of ALE 4-90 or another preapproved internship experience

Completion consolidates and integrates the learning from ALE with coursework from the student's primary academic discipline. Students taking this class will work for various scientific, governmental, social agency, arts, or non-profit offices as interns. Their responsibilities will be determined by those offices and by supervising faculty.

The student's primary

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  
[Mark B. Garrison, Ph.D.](#) , Alice P. Brown Professor of Art History  
[Holly Goeckler, M.F.A.](#) , Visual Resources Curator, Art and Art History  
[Jessica Halonen, M.F.A.](#) , Associate Professor, Art  
[Jongwon Lee, M.F.A.](#) , Associate Professor, Art  
[Jennifer P. Mathews, Ph.D.](#) , Professor, Anthropology  
[Kathryn O'Rourke, Ph.D.](#) , Assistant Professor, Art History  
[Kate Ritson, M.F.A.](#) , Professor, Art  
[Michael Schreyach, Ph.D.](#) , Associate Professor, Art History  
[Patricia Simonite, M.F.A.](#) , Professor, Art  
[Randy Wallace, M.F.A.](#) , Studio Manager, Art  
[Elizabeth Ward, M.F.A.](#) , Professor, Art; Chair

## Overview

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

## Requirements

## The Major

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

### I. Departmental requirements:

# Art

A. 40 credit hours of Studio Art, including ART 1410 Design, 2430 Drawing 1, 3314 Issues in Contemporary Art\*, 4394 Senior Seminar, and 4397 Senior Studio.

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

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## 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:

- ART 1410 and 2430.
- 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.

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## 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 1307, 1408, 2 upper-division courses concentrating on art produced before 1800, and 2 upper-division courses concentrating on art produced after 1800.

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# 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.

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## 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-1410 Design

Studio practice in dealing with 2-D and 3-D compositional problems, integrating the visual elements with aesthetic principles and an emphasis on creative solutions. Students may not register for both ART 1410 and THTR 2310.

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## ART-2305 Studio Art for Chemists

This studio based course is offered in conjunction with its companion course, Chemistry 2305: Chemistry for the Visual Artist. The application of scientific study with creative studio practice provides a dynamic platform for the making of art work. The frame work for connecting the two fields of study is supported by slide presentations, demonstrations, and studio practice. Guided studio assignments provide the students with an understanding of

technical exploration of hand-made paper. 4 studio hours and 4 hours outside preparation per week required. May be repeated up to 3 times.

### ART-2368 Bookbinding

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

### ART-2372 Sculpture: Small Metals

A beginning level course in sculpture focusing on metal construction techniques. Issues in contemporary sculpture will be explored.

### ART-2374 Sculpture: Wood

A beginning level course in sculpture focusing on construction techniques in wood. Issues in contemporary sculpture will be explored.

### ART-2376 Sculpture: Carving

A beginning level course in sculpture focusing on carving techniques in stone, wood, and plaster. Issues in contemporary sculpture will be explored.

### ART-2378 Sculpture: Relief

A beginning level course in sculpture focusing on relief sculpture in clay, wood, plaster and mixed media. Issues in contemporary sculpture will be explored.

### ART-2380 Digital Art

An intensive fine arts studio investigation emphasizing visual problem solving and production. Designed to build visual art making skills and computer proficiency through the introduction of structured studio problems. Emphasis on the expressive and communicative nature of images focusing on the computer as the primary creative medium. Prerequisite: ART 1311 or consent of instructor. Priority will be given to Art and Art History majors and minors and students enrolled in the New Media minor.

### ART-2395 Outdoor Studio



### ART-2430 Drawing I

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

### ART-2440 Painting I

A basic course in beginning painting techniques and issues in contemporary painting. Prerequisite: ART 1312 or 2330 or DRAM 2310.

### ART-2450 Photography I

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

### ART-2470 Sculpture: Clay I

A beginning level course in sculpture focusing on clay handbuilding techniques, kiln firing, and glaze processes. Issues in contemporary clay sculpture will be explored. Assignments are sequenced to build on the sculptural components of concept, material, process and technique. Students will develop their ideas through participation in the rigorous activity of studio practice. (Offered every semester).

### ART-3-60 Topics in Intermediate Printmaking

This course is designed for students who have already taken a course in printmaking and wish to experience a particular printmaking technique in greater depth. The course may be taken more than once, as long as course content changes. Credit may vary from 1 to 3 semester hours. Course may be repeated for a maximum of 9 credit hours. Prerequisite: ART 2360, 2362, 2364, or consent of instructor.

### ART-3-90 Special Work in Studio Art

Not to exceed 6 semester hours. Prerequisite: Consent of the instructor.

### ART-3-91 Topics in Studio Art



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

#### ART-4-30 Advanced Drawing

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

#### ART-4-40 Painting: Advanced

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

#### ART-4-50 Advanced Photography

A continuation of ART 3350. Credit may vary from 1-3 semester hours. Course may be repeated for a maximum of 9 credit hours. Prerequisite: ART 3350

#### ART-4-52 Advanced Digital Photography

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

#### ART-4-60 Topics in Advanced Printmaking

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

#### ART-4-91 Advanced Study in Studio Art

Research and critique in studio work. Not to exceed 12 hours. Prerequisite: Upper-division major in the department or consent of the instructor.

#### ART-4383 Advanced Game Art

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

#### ART-4394 Senior Seminar

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

### ART-4396 Gallery Practicum

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

### ART-4397 Senior Studio

Concentrated advanced study in studio art in preparation for the senior exhibition. ART 4394 and ART 4397 are required in the senior year. 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-4591 Advanced Study in Studio Art

Research and critique in studio work. Not to exceed 12 hours. Prerequisite: Upper-division major in the department or consent of the instructor.

### ART-4691 Advanced Study in Studio Art

Research and critique in studio work. Not to exceed 12 hours. Prerequisite: Upper-division major in the department or consent of the instructor.

### ARTH-1301 Introduction to Film Studies

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

### ARTH-1307 Art History I: Prehistoric Through Medieval Art

This course aims to present works of art in their historical context with emphasis on the cultural values revealed in selected examples of painting, sculpture and architecture, and to acquaint students with the fundamental



historical narratives. (Offered every year).

### ARTH-2301 International Cinema

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

### ARTH-2428 Art and Archaeology of Mesopotamia and Persia

A survey of the major monuments and sites of ancient Mesopotamia and Persia, modern day Iraq and Iran respectively, with a focus on the visual expression of royal power in art and architecture. Prerequisite: Completion of three semester hours of Art History.

### 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-3-97 Internship

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

### ARTH-3320 The Minoan-Mycenaean Civilization

This course deals with the rediscovery of the Aegean Bronze Age civilizations of the Crete and Mycenae, using an interdisciplinary approach based on material from archaeology, anthropology, and the Homeric epics. Prerequisite: Completion of three semester hours of Art History, or sophomore standing, or consent of instructor, is prerequisite for taking Upper-division Art History courses.

### ARTH-3321 Greek Vase Painting

The development of the shape and decoration of Greek pottery from the Geometric period through the end of the Classical era. The characteristics of individual artists and the treatment of Greek myths in different periods are studied. 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-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 Mesoamerica and will examine the art of the Olmec, Western Mexico, Gulf Coast, Teotihuacan, Maya, Toltecs, Zapotecs, Mixtecs, and the Aztecs. Art mediums will include architecture, sculpture, ceramics and other portable art, murals, ancient manuscripts such as codices, jewelry, and even graffiti. Students will have an opportunity to work with materials on and off-exhibit in the Pre-Columbian collection at the San Antonio Museum of Art for their research papers. (Same as ANTH 3335.) (Offered every other year.)

#### ARTH-3339 Art & 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-3340 Northern Renaissance Art in the Fifteenth Century

The course examines the making and meaning of the visual arts in France, Germany, and the Netherlands, from c. 1400 to c. 1500. Objects in various media are considered in relation to their original contexts, from the lavish splendor of the courts to the burgeoning commercial art markets. Key themes, including the role of the altarpiece, technical innovations, devotional practices, and the shifting relationship of Northern art with Italy, will be explored through the work of Van Eyck, Van der Weyden, Schongauer, and their contemporaries. (Also listed as GRST 3321) Prerequisite: Completion of 3 semester hours of Art History, or Sophomore standing, or consent of instructor.





modernization of industry and technology, combined with social and political transformations, caused equally radical changes to occur in many aspects of visual arts, from its formal appearance to its significance for society. Emphasis is given to understanding the interrelationships between various historical contexts and visual form. 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-3354 Mexico City

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

### ARTH-3357 History of Photography

This course examines the artistic practices and the critical accounts which constitute the history of photography, from the 1830s to the present. Emphasis is given to the historical contextualization and visual analysis of key technologies, techniques, movements, styles, artists, and artworks, 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-3361 Public Art Across the Border



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

### ARTH-4395 Seminar in Art History

From time to time courses will be offered that will provide an in-depth study of selected artists or problems.

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

### ARTH-4396 Gallery Practicum

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

### ARTH-4398 Honors Thesis

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

### ARTH-4399 Honors Thesis

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

# Biomathematics

## Faculty

Farzan Aminian, Ph.D. , Professor, Engineering Science

Eduardo Cabral Balreira, Ph.D. , Associate Professor, Mathematics

Kevin L

- MATH 1308 Calculus B
- MATH 1320 Statistical Methods

## II. Advanced Interdisciplinary Study (7 hours)

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

### BIMA-3-90 Independent Research in Biomathematics

Individual Research in biomathematics conducted with faculty. Course credit will depend on the nature and scope of the proposed research project. Prerequisites: Consent of the instructor and approval from the minor director

### BIMA-3194 Seminar in Biomathematics II

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

### BIMA-3391 Special Topics in Biomathematics

Advanced study of a topic or field not covered by other courses. Prerequisites: completion of BIOL 1311, 1312, MATH 1307, MATH 1308, and consent of the instructor. May be repeated for credit for different topics.

### BIMA-4294 Research Project in Biomathematics

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







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

## Guidelines for Acceptance of Majors

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

1. Completion of BIOL 1311, 1111, and 2412 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

II. Completion of either BIOL 3301 or 3302

III. Completion of one additional four credit hour course from Area B.

## **Bachelor of Science Degree in Biochemistry and Molecular Biology**

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

### **I. Departmental requirements**

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

1. Core Courses. BIOL 1311, 1111, 2412, 2413, 3474, CHEM 1318, 1118, 2319, 2119, 2320, 2220, 3330, 2130, 3131, 3334, and 4340; BIOL 3000 or CHEM 3000 (1 semester).
2. Advanced Electives. Two courses chosen from the following list (one from each department): BIOL 3450, 3458, 3466, CHEM 3432, 4346, 4347, or the combination of 3321 and 3121.

B. Math 1307 or 1311, 1308 or 1312

C. PHYS 1309, 111, 1310, 1112

II. University requirements: completion of all other required elements of the P 31      sen ced Bi h 121. st 47 cr

# Guidelines for Acceptance of Majors

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

I. Completion of CHEM 1318, 1118, 2319, 2119, 2320, 2220 and BIOL 1311, 1111, 2412, and 2413 with grades of C or better.

II. Completion of MATH 1307 or 1311 with a grade of C or better.

III. A grade point average of at least 2.0 on all other university work.

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

# Courses

## BIOL—91 Selected Topics

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

## BIOL-1111 Introductory Biology Lab

This is an introductory course that provides an understanding of the scientific methods used to investigate biological questions and how the results of these studies are communicated. The semester is divided into investigative modules in which student groups learn a technique, conduct an experiment or study, and write their results in the form of a scientific paper. BIOL 1311 must be taken concurrently. (Offered every Spring).

## 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.

activities. (Offered every other year).

### BIOL-1311 Integrative Biology I

This course is designed to introduce students to the wide range of knowledge in the biological sciences and to the methods that have built this knowledge base. The course is organized around a series of topic-based modules, each of which will integrate modern biological approaches at the cellular, organismal, and population levels. Modules for this first semester course include global change, the evolution of sexual reproduction, or other contemporary topics. (Offered every Spring)

### BIOL-2180 Biomolecular Research Methods

Investigative skills for interdisciplinary research in the biological and chemical sciences. The use of modern fluorescence, spectroscopy, microcalorimetry, and mass spectrometry to solve biomolecular research problems. Research topics will vary from year to year and may include protein studies, biomolecular stability, and biomolecular recognition. (Also listed as CHEM 2180) Prerequisites: BIOL 1312, 1212, CHEM 2319, 2119, and consent of instructor

### 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. Two themes are emphasized: 1) ecological and physical approaches to studying the

essential components across barrier membranes, generating chemical energy, regulating cell phenotype, and maintaining cell structure. How these processes are governed and influenced by the physical world will be considered. Students will learn to use mathematical models and algorithms to describe and investigate key features of cell and organ system behavior. Three hours lecture/discussion and one 75 min recitation per week.

collaboration with biology faculty in an ecological field setting, students will design and conduct field experiments on a variety of topics in ecology and evolution. The objectives of the course are for students to gain hands-on experiences with organisms in the field; develop the skills, techniques, and methods of analysis required to conduct biological field studies; communicate the results of scientific studies; and gain an appreciation for natural





diversity, to experimentally create diversity, and to use evolutionary statistics to address broad biological questions. Some experiments will require time outside of scheduled lab. 3 hours of lecture/discussion and 3 laboratory hours per week. Strongly Recommended: MATH 1320 or PSYC 2401

### BIOL-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-3452 Vertebrate Physiology

This course is a study of the principles of homeostasis with emphasis on major vertebrate organ systems. This course begins with a detailed molecular investigation of excitable membrane physiology (nerve and muscle) followed by a systematic investigation of endocrine, cardiovascular, respiratory, renal and gastrointestinal physiology. Integrative problem sets are assigned to address the complex interactions between organ systems. Laboratory experience involves 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. 3 class hours, 3 laboratory hours per week for one semester. Additional Prerequisite: One 2000-level Biology course or higher

### BIOL-3453 Developmental Biology

Through integration of information from various biology subdisciplines, course topics include the following: vertebrate body plan patterning, genetic control of the *Drosophila* body plan, early morphogenesis, cell differentiation, organogenesis, gamete formation, and fertilization. The laboratory follows development using microscopy and through special projects involving several animal systems, including avian. Course assessment includes in-class examinations, oral presentations, and group projects. 3 class hours and 3 laboratory hours a week for one semester. Additional laboratory hours are required to monitor experiments. Additional Prerequisites: one course from BIOL 3426, 3456, 3457.

### BIOL-3456 Cell Biology

Cells form the basic working units of organs and the systems that organs comprise. This course is designed to build an understanding of the fundamental processes that govern the operations of cells. Cells face challenges of maintaining boundaries, communicating with neighboring cells, transporting essential components across barrier membranes, generating chemical energy, regulating cell phenotype, and maintaining cell structure. In order to function as part of a specialized tissue or organ, cells elaborate specific subsets of organelles to dedicate themselves to performing specific functions. The course will provide the background to understand the cellular mechanisms of specialized cells, and allow one to predict the underlying cellular physiology of most tissue

reports. 3 lecture hours, 3 laboratory hours a week for one semester. Additional Prerequisite: at least one Area B course or CHEM 3330

### BIOL-3457 Neurobiology

Neurobiology focuses on the organization and function of nervous tissues and systems. The course begins with an anatomical overview, followed by an examination of neural system function at the level of signaling and synaptic transmission, sensory systems, and central system integration and control. With this foundation, the course explores brain development and plasticity. 3 class hours and 3 laboratory hours a week for one semester. Additional hours are required to monitor experiments. (also listed as NEUR 3447). Additional Prerequisites: NEUR 2310

### 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 health, agriculture and biotechnology are discussed. In addition to exams, a research paper on a recent topic from the primary research literature in microbiology is required. The laboratory covers diverse techniques on manipulation and growth of bacterial cultures, microscopy, testing of environmental samples, bacterial genetics and molecular biology, and identification of unknown organisms. Multiple experiments are run concurrently. Students are expected to visit the lab on days other than the assigned period to monitor experiments. (Offered every Spring) Prerequisites: BIOL 2413 and CHEM 2319, 2119.

### BIOL-3459 Endocrinology

A study of the function of the endocrine system and how it regulates the metabolic processes of living organisms. The course begins with a hormone synthesis/action and then progresses through the functional endocrine systems including stress, reproduction, pregnancy, energy, balance and bone. Attention will also be given to neuro-endocrine mechanisms involved in regulating these systems. 3 class hours, 3 laboratory hours a week for one semester. (Offered every other year.) Additional Prerequisite: at least one Area B course (preferably BIOL 3452 or CHEM 3330)

### BIOL-3474 Molecular Biology

The focus of this course is the gene. The lecture portion of the course covers the mechanisms of gene expression and regulation. The laboratory portion of the course covers the techniques used to study gene expression and regulation.

Each September or early October, those Biology majors who have earned 90 total credits or 23 hours in Biology by

Seminar is also required. Prerequisite: BIOL 4398.

## Faculty

Steven M. Bachrach, Ph.D.

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oceanography, and toxicology. The B.A. in Chemistry with High School Teaching Certification provides the





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, 1312, 1212, 3430.
- C. CHEM 3190 or BIOL 3190.
- D. PHYS 1111, 1112, 1309 or 1311, 1310 or 1312.
- E. MATH 1307 or 1311, 1308 or 1312.

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.

## The Minor

A minor in chemistry may be obtained by successful completion of a minimum of 20 hours in chemistry, to include CHEM 1318, 1118, 2319, 2119, 2320, 2220, 2130, and at least 6 additional hours in upper division courses. CHEM 3001 and 3101 cannot be used towards satisfying the upper division course requirement.

## Honors in Chemistry



# 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 2220

### CHEM-2180 Biomolecular Research Methods

Investigative skills for interdisciplinary research in the biological and chemical sciences. The use of modern fluorescence, spectroscopy, microcalorimetry, and mass spectrometry to solve biomolecular research problems. Research topics will vary from year to year and may include protein studies, biomolecular stability, and biomolecular recognition. (Also listed as BIOL 2180) Prerequisites: BIOL 1312, 1212, CHEM 2319, 2119, and consent of instructor.

### CHEM-2220 Chemical Synthesis Laboratory

Continued development of student laboratory experience with emphasis on organic and inorganic syntheses. Nuclear magnetic resonance spectroscopy, use of Chemical Abstracts, and technical writing are emphasized. Laboratory, 5 hours per week, alternate weeks; discussion session 1 hour each week. Pre- or Corequisite: CHEM 2320. Prerequisite: CHEM 2119.

### CHEM-2305 Chemistry for the Visual Artist

The study of the chemical foundations of the visual arts. Topics range from a study of the historical development of technical innovations and discoveries that impacted the evolution of art, to the chemical and physical properties



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, spectroscopy characterization, and reactivity studies of inorganic compounds. Students will develop advanced synthesis and characterization techniques, and will become familiar with the Inorganic Chemistry literature. In the second half of the semester, students may be able to develop individual projects relating to the broader fields of interest. Laboratory 3 hours per week. Prerequisite CHEM 2220, 3334. Pre-or Corequisite: CHEM 3135, 3321, or consent of instructor.

### CHEM-3131 Biochemistry Laboratory

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

Prerequisites: CHEM 3330, 2220.

### CHEM-3135 Physical Chemistry Laboratory

Experimental emphasis in physical and biophysical chemistry using modern laboratory techniques and instrumentation.

The emphases of the course are to illustrate physical chemistry principles and to develop careful and cr



1318; MATH 1308 or 1312.

### CHEM-3335 Physical Chemistry II

A continuation of Chemistry 3334 with emphasis on quantum mechanical approaches to chemical structure and dynamics, statistical mechanics, and theoretical developments in chemistry. Lecture, 3 hours per week. Pre- or Corequisite: PHYS 1310 or 1312. Prerequisite: CHEM 3334.

### CHEM-3398 Honors Reading

Independent study in selected areas in preparation for Honors Thesis. May be taken for up to three hours of credit. Prerequisite: Consent of instructor.

### CHEM-3432 Analytical Chemistry

Principles of quantitative chemical analysis. Discussions will include topics such as sampling, statistical analysis, experimental design and optimization, chemical equilibrium, volumetric and gravimetric techniques, electrochemistry, and elementary instrumental analysis. Typical laboratory experience includes volumetric analysis and elementary instrumental analysis. 3 lecture hours and 3 lab hours per week. Prerequisite: CHEM-2319

### CHEM-4194 Major's Seminar

A seminar course for junior and senior chemistry majors. Attendance at weekly departmental seminars is required. In addition, each student will prepare an abstract and give an oral presentation on a current topic in chemical science. May be repeated for up to four hours credit. Pass/Fail.

### CHEM-4242 Advanced Analytical Methods

Principles of modern instrumental analysis, with emphasis on separation methods and mass spectrometry. Both theory and practical experience are addressed. Appropriate laboratory experience emphasizes use of sophisticated chemical instrumentation. Equivalent of 1 lecture hour and 3 laboratory hours per week. Prerequisite: CHEM 3432. CHEM 3334 is recommended.

### CHEM-4250 Senior Integrated Laboratory

Advanced experimentation in chemistry and biochemistry. A team-taught course designed to bring the perspectives of multiple disciplines to bear on advanced laboratory problems. The emphasis in the course will be on the use of emission and absorption spectroscopy, magnetic resonance, electrochemistry, and computational chemistry to study complex chemical and biochemical problems. Equivalent of 1 lecture hour and 6 laboratory hours per week. (offered every Fall). Prerequisites: CHEM 3334, 3335, 3135.

### CHEM-4340 Biochemistry II

The continuation of CHEM 3330 with emphasis on metabolism, biosynthesis, and gene expression. Lecture, 3 hours per week. Prerequisites: CHEM 3330, 3334.





# Ancient Mediterranean Studies

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

## I. Departmental requirements:

30 hours of courses chosen from those listed below under Classics Courses in English, Greek, or Latin, including 18 upper division hours. At least 12 hours must be CLAS hours. This major does not require a language, although language courses do count for this degree. Greek and Latin courses credited towards the Ancient Mediterranean Studies major may also be credited towards the minor in Greek or Latin.

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

## Greek

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

## I. Departmental requirements:

A. Completion of the elementary and intermediate sequence of courses (12 hours) or the equivalent in Greek.

B. 27 additional hours of courses chosen from those listed below under Classics Courses in English, Greek, or Latin, including 12 upper division hours of Greek. (Courses in Latin credited towards the Greek major may also be credited towards the minor in Latin.)

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



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

Completion of at least 18 hours of courses chosen from those listed below under Classics Courses in English, Greek, or Latin, of which at least 9 hours must be in the upper division. At least 6 hours must be CLAS hours. Ancient Mediterranean Studies is a minor in ancient culture and does not require a language, although language courses do count toward this degree. No more than 3 hours may overlap with the student's major. A minimum of 12 hours toward the minor must be completed at Trinity.

### Greek

Completion of at least 18 hours in Greek, of which at least 6 must be in the upper division. A minimum of 12 hours toward the minor must be completed at Trinity.

### Latin

Completion of at least 18 hours in Latin, of which at least 6 must be in the upper division. A minimum of 12 hours toward the minor must be completed at Trinity.

## The Honors Program

## I. University requirements

## II. Departmental requirements:

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





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 ANTH 3172.) (Offered occasionally.) Prerequisites: Approval of the department chair and of the excavation director.

#### CLAS-3-90 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-3301 Advanced Topics in Classical Studies

Advanced study of topics related to the ancient Mediterranean world and its legacy, such as Neronian culture,  
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### 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-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

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 SPAN 3371). Prerequisite: two years or the equivalent of Latin, ancient Greek, or a Romance language.

### CLAS-3398 Honors Readings

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

### 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-4-72 Archaeological Practicum II

Students who have already taken CLAS 3-72 may obtain credit for one further season of work on the same conditions as for 3-72. (Also listed as ANTH 4-72.) (Offered occasionally.) Prerequisites: CLAS 3-72 and approval of the department and of the excavation director.

### CLAS-4-90 Directed Studies

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

### CLAS-4-91 Selected Topics

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

### CLAS-4-97 Museum Internship

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



#### 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-4-90 Directed Studies

Individual work under supervisor in areas not covered by other courses. May be repeated more than once, as content varies. Prerequisites: LATN 2402 or the equivalent, and consent of the department chair.

### LATN-3301 Latin Prose Composition

issues of genre, religion, gender, and influence. Prerequisite: LATN 2402 or the equivalent

#### LATN-4-90 Directed Studies

Individual work under supervisor in areas not covered by other courses. May be taken more than once, as content varies. Prerequisites: LATN 2402 or the equivalent, and consent of the department chair.

#### LATN-4-91 Selected Topics

Special study in fields not covered by other courses. Variations in credit according to work performed, from 1-6 hours. May be taken more than once, as content varies. Prerequisites: LATN 2402 or the equivalent, and consent of the department chair.





# The Minor

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

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

No more than two of the total may overlap with the student's primary major. These courses shall be chosen as follows:

- A. Two courses in the literature of a language other than English. All materials in these courses must be in the original language. These

- FREN 3306 Introduction to French Literature II
- FREN 4303 Topics in French Literature of the Seventeenth Century
- FREN 4304 Topics in French Literature of the Eighteenth Century
- FREN 4305 Topics in French Literature of the Nineteenth Century
- FREN 4306 Topics in French Literature of the Twentieth Century
- FREN 4307 French Cinema
- GERM 3305 Introduction to German Literature I
- GERM 3306 Introduction to German Literature II
- GERM 4301 Genre Studies in German Literature
- GERM 4310 Seminar in German Literature
- RUSS 3305 Introduction to Russian Literature I
- RUSS 3306 Introduction to Russian Literature II
- RUSS 4301 Genre Studies in Russian Literature
- RUSS 4310 Seminar in Russian Literature
- SPAN 3321 Spanish Cinema
- SPAN 3322 Spanish American Cinema
- SPAN 3331 Introduction to Spanish Literature since 1700
- SPAN 3332 Introduction to Spanish American Literature
- SPAN 4331 Medieval Spanish Literature
- SPAN 4332 Spanish Golden Age Literature
- SPAN 4333 Don Quixote
- SPAN 4334 Nineteenth-Century Spanish Literature
- SPAN 4335 Hispanic Modernism
- SPAN 4336 Twentieth-Century Spanish Literature
- SPAN 4338 Spanish Women Writers

C. 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 3302 Greek and Roman Epic



# Communication

## Faculty

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

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

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

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

[Sammye Johnson, M.S.J.](#) , Carlos Augustus de Lozano Professor of Journalism

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

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

[Melissa McMullen](#) , Assistant Professor

Camille Reyes, Ph.D. , Assistant Professor

## Overview

The communication curriculum focuses on the fundamental theories and skills that prepare students for careers in media writing and production as well as advertising and public relations. Courses focus on everything from public relations to video games, from film to social media, and from transmedia storytelling to broadcast journalism.

The communication curriculum is divided into three interrelated areas, all of which drive a better understanding and a greater curiosity about how the media works:

- **Media Studies** includes history and theories of social and mass communication; communication-related public policy; structure, organization, technology, ethics, criticism, and social and aesthetic functions of communication institutions and their messages.
- **Media Messages** focuses on writing and production skills and theory related to the creation of audio, print, video, and interactive media messages.
- **Media Management** is about planning, research, management, and legal regulation in contemporary communication media and media-related organizations.

## Requirements

# The Major

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

## I. Departmental requirements:

A. To be accepted as a major in Communication, a student must have successfully completed COMM 1301 (Mass Media) and 2302 (Media Interpretation and Criticism).

B. Thirty (30) hours (of which at least 15 must be upper division) of course work in the Department of Communication including:

1. Nine (9) credit hours in core courses (COMM 1301, 2302, 3303)
2. Nine (9) credit hours consisting of one course from each of the following three areas of study. These courses will be chosen in consultation with faculty adviser.
  1. Three (3) credit hours in media studies (COMM 3321, 3322, 3325, 3326, 3328, 3-98, 4-90, 4398, 4399)
  2. Three (3) credit hours in media messages (COMM 3340, 3341, 3342, 3343, 3344, 3-45, 4350)
  3. 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).

C. A minimum of eighteen (18) hours of course work in another department or program planned to meet the student's interests and approved by adviser.

D. Courses in the Department of Communication exceeding 36 hours must be over and above the 124 hours required for graduation.



- 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





Apprenticeship may be repeated up to 3 hours.









Individual research and scholarly investigation under faculty supervision leading to the preparation of an honors thesis. To be taken only by senior honors students in both terms of their senior year. Includes participation in senior colloquium where students present reports on their Thesis work.

#### COMM-4399 Honors Thesis

Individual research and scholarly investigation under faculty supervision leading to the preparation of an honors thesis. To be taken only by senior honors students in both terms of their senior year. Includes participation in senior colloquium where students present reports on their Thesis work.

# Communication Management

## Faculty

[J. Charlene Davis, Ph.D.](#) , Professor, Business Administration; Director

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

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

## Overview

The minor in Communication Management is an interdisciplinary program that studies both advertising and public relations as part of the management of communication processes by combining mass media, human communication, marketing, and business principles. Students interested in declaring a Communication Management minor should contact Professor J. Charlene Davis; each student will then be assigned to a minor adviser.

## Requirements

## The Minor

The requirements for a minor in Communication Management are:

24 credit hours consisting of 15 hours in required courses and 3 hours in each elective area.

## Required Courses: 15 hours

- COMM 3360 Principles of Public Relations
- HCOM 3334 Persuasion
- HCOM 3360 Sma5 5 5 5 5 5 5 ion



## Communication Elective: 3 hours

- COMM 3362 Media Law and Policy
- COMM 3363 Media Management
- COMM 3364 Ethics and the Mass Media

## Business Elective: 3 hours

- MGMT 3371 Human Resources Management
- MGMT 3372 Organizational Behavior
- MKTG 3381 Consumer Behavior
- MKTG 3382 Promotion Management
- MKTG 4381 Marketing Management

## Human Communication Elective: 3 hours

- BUSN 3311 Organizational Communication (also listed as HCOM 3362)
- HCOM 1333 Public Speaking
- HCOM 3362 Organizational Communication (also listed as BUSN 3311)

# Computer Science

## Faculty

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

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

[Matthew Hibbs, Ph.D.](#) , Assistant 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



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

## Computing as a Second Major

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

I. Completion of a first major from another department.

II. Departmental requirements: 34 hours of computer science including:

A. Required courses: CSCI 1120, 1320, 1321, 1323, 2320.

B. Departmental Colloquium: two semesters of CSCI 2094.

C. 21 additional hours of computer science including at least 18 upper-division hours.

III. Mathematics requirement:

Six hours from the following: any MATH Course (except 1301, 1310, 1330, 3194, 3195); CSCI 2324; PHIL 3340, 3343; PSYC 2401; BUSN 2301. At most one of the following courses may be counted for this requirement: MATH 1320, PSYC 2401, and BUSN 2301.

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

credit hours.

## Minor in Computer Science

The requirements for the Minor in Computer Science are as follows:

I. Departmental requirements: 16 hours of Computer Science including:

- A. Required courses: CSCI 1120, 1320, 1321, 1323, 2320.;
- B. Departmental Colloquium: one semester of CSCI 2094;
- C. Three additional hours of upper division Computer Science

II. Mathematics requirement: As described for Computer as a Second Major.

## Minor in Management Information Systems

The requirements for the Minor in Management Information Systems are:

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

II. Departmental requirements: 16 hours of Computer



CSCI 3398 is taken.

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

## Honors in Computer Science

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

I. Completion of the requirements for the Bachelor of Science in Computer Science.

II. Completion of the requirements for the Senior Thesis described above.

III. Grade point average of at least 3.33 or better in all courses prior to the semester of graduation.

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

V. A written request for honors consideration, submitted to

the department chair in the semester prior to the semester of graduation.

The decision of whether or not to confer the honors designation will be made by the departmental faculty and will be determined by departmental vote. The criteria include quality of the written thesis, quality of the oral presentation, and contribution to the field.

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

Students who successfully complete CSCI 4399 with a grade of C or better, but fail to achieve honors status or fail



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

### CSCI-1312 Introduction to Programming for Engineering

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

### CSCI-1320 Principles Computer Science I

Intended for Computer Science majors and others who need this specific course to meet requirements in other departments. The course is a concept-oriented introduction to programming and algorithmic problem solving principles. Topics include top-down design; searching and sorting strategies; recursion; computational complexity and analysis of algorithms; and the limits of computation. Aspects of computer organization; computer solutions to problems in graphics, user interfaces, and file manipulation. Computer programming solutions to several laboratory exercises. Prerequisites: First-Year or Sophomore standing; or consent of instructor.

### CSCI-1321 Principles of Computer Science II

Focus on object-oriented programming and the development of software to solve larger problems that can benefit from this approach. Abstraction, polymorphism, multithreading, and networking. Program correctness and program verification, algorithm analysis, and computational complexity. User defined structures, data types. Abstract data types including stacks, queues, linked lists, trees, and heaps. Computer programming solutions to several laboratory exercises. Prerequisite: CSCI 1320 or consent of instructor.

### CSCI-1323 Discrete Structures

Elements of discrete mathematics of particular importance in computer science: propositional and predicate logic; proof techniques, including mathematical induction; recursive functions, definitions, and algorithms; proofs of program correctness; algebra of sets; relations and functions; and elements of the theory of directed and undirected graphs. Application of these structures to various areas of computer science. Prerequisite: CSCI 1311, 1320, or consent of instructor.

### CSCI-2094 Computer Science Colloquium

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

### CSCI-2195 Competitive Programming

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

of programming

### CSCI-2320 Principles of Data Abstraction

Abstract data types and their implementation in an object-oriented environment. Axiomatic systems describing the classical computer science data structures: stacks, queues, lists, trees, graphs, and the like. Analysis of the computational complexity of alternative implementation strategies in the context of the typical algorithmic applications. Prerequisite: CSCI 1321 and 1120

### CSCI-2321 Principles of Computer Design

A study of computer organization and design including emphasis on logical design, the role of performance, the structure of instructions, computer arithmetic, processor control, and methods of performance enhancement. Some attention will also be given to assembly programming. Prerequisite: CSCI 1321, CSCI 1120.

### CSCI-2322 Principles of Functional Languages

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

### CSCI-2323 Scientific Computing

Numerical and text processing methods with problems chosen from the sciences and mathematics. Focuses on the general idea of how computational science has expanded the realm of what is possible in the sciences. Builds on basic programming knowledge to give students understanding and skills as to how computers are used in the sciences. Prerequisite: CSCI 1320, MATH 1311 or 1307.

### CSCI-2324 Numerical Calculus

Introduction to the numerical algorithms fundamental to scientific computer work. Elementary error analysis, interpolation, quadrature, linear systems of equations, and introduction to the numerical solution of ordinary differential equations. (Also listed as MATH 2324.) Prerequisites: CSCI 1320, MATH 1311 or 1307.

### CSCI-3-90 Directed Study

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



branch and bound, backtracking, memoization, greedy algorithms, and dynamic programming. Heuristic-based methods to find non-optimal solutions are also explored, especially for intractable problems. Prerequisite: CSCI 2320

### CSCI-3323 Principles of Operating Systems

Introduction to operating systems. Role and purpose of operating systems. History of operating systems. Processes and process management, including a discussion of concurrency and related issues. Memory management. Input/output and device management. File systems. Operating system security. Prerequisite: CSCI 2321.

### CSCI-3342 Computer Networks

Local area networks, high-speed networks and bridges. Wide area networks and internetworking. Network protocols including OSI protocols. Network security, reliability and performance. Laboratory experience with one or more network protocols. Prerequisite: CSCI 2320.

### CSCI-3343 Database Systems

The goals of DBMS including data independence, relationships, logical and physical organizations, schema and subschema. Entity relationship diagrams. Hierarchical, network, and relations models. Data definition and data manipulation languages. Query languages, relational algebra, and relational calculus. Data normalization techniques, data security integrity, and recovery. Case studies of several existing systems. Prerequisite: CSCI 2320.

### CSCI-3344 Artificial Intelligence

The purpose of this course is to update the student on state-of-the-art artificial intelligence concepts, such as

experiments, and validation of simulation models. Prerequisites: CSCI 1320 and knowledge of statistics.

### CSCI-3353 Graphics

Survey of display devices, display data structures, graphics input, 2D transformations, windowing, clipping, viewing, 3D transformations, perspective, depth, hidden line removal. Graphics programming techniques and several laboratory problems using available graphics devices. Prerequisites: MATH 1311, CSCI 2320.

### CSCI-3361 Analysis of Algorithms

Complexity of algorithms, time and space requirements, and trade-offs. Searching and sorting, mathematical algorithms, graph and combinatorial algorithms. Divide and conquer, branch and bound, dynamic programming, exhaustive search. Limitations, intractability and NP-completeness, approximation algorithms. Prerequisites: CSCI 1321, 1323.

### CSCI-3362 Effective Programming Techniques

Effective strategies for programming in contemporary languages, including material on design patterns and other techniques that improve abstraction and reusability of code. Includes a significant group project that requires students to apply material learned in the course. Prerequisite: CSCI 2320, 3321 is recommended

### CSCI-3366 Parallel and Distributed Programming

An introduction to parallel and distributed programming with particular emphasis on algorithm development. Comparison between sequential and parallel algorithm development. Survey of hardware and software for parallel and distributed computing. Comparison of different architectures and programming models. Design, analysis, and

### 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

Development of a software system

2 credits



I. A core curriculum in East Asian culture (12 credit hours; at least one course from each of the following categories):

A. Art and Civilization



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. History, Political Science, and Religion

- 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)
- HIST 3320 The Rise of Modern China (also listed as CHIN 3320)
- HIST 3324 History of Korea
- HIST 4420 Seminar in Asian History
- PLSI 3339 Special Topics in Comparative Politics (with adviser approval)
- PLSI 3341 East Asian Security
- PLSI 3343 Chinese Foreign Policy (also listed as CHIN 3343)

- ECON 3371 Internship (with adviser approval)
- FNCE 3390 Studies in Finance (with adviser approval)
- MGMT 3390 Studies in Management (with adviser approval) M
- KTG 3390 Studies in Marketing (with adviser approval)

### III. Completion of at least one semester abroad in a

## C. Philosophy and Religion

- GNED 1303 Japanese Perspectives
- PHIL 1302 Introduction to Asian Philosophy
- RELI 1330 Asian Religions

## II. The concentration in an East Asian language:

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

- CHIN 3401 Third-Year Chinese I
- CHIN 3402 Third-Year Chinese II
- CHIN 4130 Global Business Culture
- CHIN 4301 Fourth-Year Chinese I
- CHIN 4302 Fourth-Year Chinese II
- CHIN 4310 Advanced Conversation and Composition
- CHIN 4321 Topics in Modern Chinese Literature
- CHIN 4322 Readings in Contemporary Chinese Cinema
- CHIN 4360 Senior Seminar

### B. Completion of 6 credit hours of upper division electives taught in English

- BUSN 3330 Global Business Culture (also listed as CHIN 3330)
- BUSN 3363 International Business Research (also listed as CHIN 3363)
- BUSN 4362 International Branding (also listed as CHIN 4362)
- BUSN 4364 Internationalizing Intellectual Property (also listed as CHIN 4364)
- CHIN 3320 The Rise of Modern China (also listed as HIST 3320)
- CHIN 3330 Global Business Culture (also listed as BUSN 3330)
- CHIN 3433 Chinese Religions (also listed as RELI 3433)
- CHIN 3363 International Business Research (also listed as BUSN 3363)
- CHIN 4362 International Branding (also listed as BUSN 4362)
- CHIN 4364 Internationalizing Intellectual Property (also listed as BUSN 4364)
- HIST 3320 The Rise of Modern China (also listed as CHIN 3320)
- HIST 3324 History of Korea
- PLSI 3331 Political Economy of the U.S., Europe, and Japan



# Economics

## Faculty

[Dennis Ahlburg, Ph.D.](#) , Professor

[Richard V. Butler, Ph.D.](#) , Professor

[Nels Christiansen, Ph.D.](#) , Assistant Professor

[John H. Huston, Ph.D.](#) , Professor

[David A. Macpherson, Ph.D.](#) , E. M. Stevens Professor; Chair

[Maria Pia Paganelli, Ph.D.](#) , Associate Professor

[Gina Pieters, Ph.D.](#) , Assistant Professor

[Ricardo Manuel Santos, Ph.D.](#) , Assistant 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

[Elizabeth Watson, Ph.D.](#) , Assistant Professor

## Overview

Economics is one of the most popular majors at Trinity, and its focus on logical thinking makes it a valuable foundation for a variety of careers, or a complement to study in other disciplines. The major in economics has six concentrations, and the department also offers a minor.

Trinity's combination of a distinctive curriculum, global opportunities, and an emphasis on economic applications gives our students the 8 \_\_\_\_\_ , conce \_\_\_\_\_ ou he



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 course stressing the case method of legal instruction (e.g., BUSN 3302, PLSI 3351);
  - An appropriate course in logic, writing, or speech communication (e.g., ENGL 3314, HCOM 1333, PHIL 1341);
  - A course that views the law from a perspective other than that of economics (e.g., PHIL 3453).
  - Recommended: MATH 1307 or 1311

## D. Concentration in Economics and Business

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

Departmental Requirements:

1. 30 credit hours in Economics, including:
  - ECON 1311, 1312, 2301, 3325, and 3326 (MATH 1320 or 3335\* may be substituted for ECON 2301);
  - ECON 3329 or 3362;
  - ECON 3335 or 3328 or 3356;
  - 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 1307 or 1311 and MATH 1312.

## E. Concentration in International Economics

The focus of this concentration is the analysis of two general phenomena: a) economic transactions across international borders, and b) the role of international institutions in shaping international economic life. Besides a firm basis in economic theory, international economics provides an ideal analytical framework for those students

1. ECON 1311, 1312, 2301, 3325, 3326, 3347, and 3348. (MATH 1320 or 3335\* may be substituted for ECON 2301.)
2. ECON 3340 or 3341 or 3342 or 3343 or 3361.

B. Three upper division credit hours in a modern foreign language.

C. Two course, approved by the adviser, that emphasize current sociopolitical aspects of:

1. A foreign country;
2. A group of foreign countries; and/or
3. The relations between several countries or areas of the world.

Recommended: MATH 1307 or 1311.

## F. Concentration in Economics and Public Policy

This concentration emphasizes the application of economic analysis to the design and implementation of public policy. It is especially appropriate for students intending to pursue careers and/or graduate study in public policy or public administration.

Departmental Requirements:

A. 33 credit hours of Economics including:

1. ECON 1311, 1312, 2301, 3325, 3326, 3347, and 3348. (MATH 1320 or 3335\* may be substituted for ECON 2301.)
2. Two of ECON 3334, 3335, 3328, and 3339 (with approval of the adviser, ECON 3340 or 3347 may be substituted for one of these).

B. A course taught by the case method of instruction (e.g., BUSN 3302, PLSI 3351) .

C. Two courses that examine the analysis of implementation of public policy from a perspective other than that of



\* Students intending to use MATH 3335 to fulfill this requirement should note that MATH 1311, 1312, 2321, and 3334 are prerequisites for that course.

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

### The Minor

Students who wish to explore Economics in some depth but whose primary interests lie elsewhere may choose a minor in Economics. The minor requires 18 credit hours of Economics, including ECON 1311, 1312, and either 3325 or 3326. At least half the 18 credit hours must be in upper division courses, and at least nine credit hours must be taken at Trinity. None of the courses used to satisfy these requirements may be taken Pass/Fail.

### Honors in Economics

The Economics Department offers an honors thesis option to its majors. Candidates must have a 3.5 grade point average in economics, approval by a majority of the economics faculty and permission of the faculty member directing the thesis. The six hours for the thesis must be in addition to the hours required for the major. Please see the Chair of the Department for further details.

### Courses

#### ECON-1311 Principles of Microeconomics

An introduction to the economic organization of society, with emphasis on how markets, prices, profits and losses guide and direct economic activity. Throughout the course, economic analysis is applied to a wide range of contemporary problems and issues.

#### ECON-1312 Principles of Macroeconomics

The theory and measurement of changes in the levels of prices, employment, national income and other aggregates. Topics addressed include money and the banking system, international economics, unemployment and inflation, and government stabilization policy. Prerequisite: ECON 1311

### ECON-2301 Statistics for Management and Economics

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

### ECON-3-71 Internship

Internships may be arranged with businesses, non-profit institutions, and government agencies. Economic analysis must be performed during the course of the internship, with work load requirements similar to those of a typical Economics course carrying the same number of hours of credit. The sponsoring institution develops a work program, to include written economic analysis, in conjunction with the supervising faculty member and the student. Students are limited to a maximum of six hours' credit for internship experiences. Prerequisites: Six semester hours of economics and permission of the Department Chair.

### ECON-3-90 Research Topics

Supervised independent study on selected topics in economics. Prerequisites: Junior standing, 3.0 grade average in economics, and permission of instructor.

### ECON-3-98 Honors Readings

Independent study in selected areas in preparation for Honors Thesis. May be taken for up to three hours of credit.

### ECON-3115 Economists in the Elementary Schools

The application and communication of economic ideas in an educational context. Teams of Trinity students help teach Economics in local elementary schools by creating and leading hands on activities that illustrate and apply fundamental economic concepts. May be repeated for credit with permission of the instructor. Prerequisite: ECON 1311 or one of the Education Practicum courses (EDUC 2201, 2202, or 2203) and consent of instructor

### ECON-3116 Economists in the Middle Schools

The application and communication of economic ideas in an educational context. Teams of Trinity students help teach Economics in local middle schools by creating and presenting applications of fundamental economic concepts. May be repeated for credit with permission of the instructor. Prerequisite: ECON 1311 and consent of instructor

### ECON-3117 Economists in the High School

The application and communication of economic ideas in an educational context. Teams of Trinity students help teach Economics in local high schools by creating and presenting applications of fundamental economic concepts. May be repeated for credit with permission of instructor. Prerequisites: ECON 1311 and 1312, and consent of instructor.

### ECON-3141 La economia mexicana (The Mexican Economy)

Examination of significant contemporary issues affecting the economic life of Mexico: analysis of international, agricultural, financial, communications, and/or labor sectors of the economy and their relationship to Mexico's macroeconomic performance; special attention to the political situation in Mexico and its impact on the economy. (Also listed as LAC 3101.) Prerequisites: SPAN 2302, ECON 1311, and 1312 or 3318; or consent of instructor.

## ECON-3318 The Global Economy



### ECON-3335 Industrial Organization

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

### ECON-3336 Antitrust Economics

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

### ECON-3338 Government Regulation of Business

Economic analysis of direct government regulatory activity. The course first explores how regulation arises from the political process. These insights, and the tools of microeconomic theory, are then applied to analyze public

### ECON-3343 Slavery and the Atlantic Economy

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

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

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

### ECON-3345 Economic and Business History of US Since 1865

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

### ECON-3346 La economía española y la 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

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





# Education

## Faculty

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

[Laura Van Zandt Allen, Ph.D.](#) , 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 Teaching degree program, which leads to Texas teacher certification. In addition, the department offers two other masters-level programs, which include the Master of Education in School Leadership and the Master of Arts in School Psychology. Each of these programs is described below.

## Minor in Teaching

The Minor in Teaching allows students to select a focus on either elementary education (23 hours) or secondary education (20 hours) with a concentration on working with students with special needs or who are English language learners. Completion of the minor fulfills the prerequisites for admission to the M.A.T. program; however, prerequisites can be fulfilled with select coursework outside of the minor (see M.A.T. prerequisites). The minor is designed for students who are preparing to become teachers or who are interested in teaching English abroad or pursuing service opportunities such as the Peace Corps or City Year.



# Minor in Teaching

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

3. EDUC 3341 Teaching Science in Elementary School
4. EDUC 3351 Mathematics in Elementary School

## B. Secondary Pathway: (8 required hours)

1. EDUC 2202 Practicum: Secondary Teaching Exploration
2. EDUC 3302 Field Seminar in Secondary
3. 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



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 education is preferred, although the program welcomes applications from candidates with other majors.
- A grade point average of 3.0 for the last 60 credit hours taken. Students with a GPA of 2.6 or higher are eligible for provisional admission.
- A minimum composite score of 300 (verbal and quantitative sections) on the Graduate Record Examination (GRE). Candidates who already possess a master's degree are exempt from this requirement.
- Strong academic and professional references (three required).
- An interview with the Program Director.

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

## Application for Certification

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

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

## Certification for Elementary Education

Students seeking certification to teach at the Early Childhood-Grade 6 level should complete any academic major and other requirements, as follows:

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



# 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. Technology Applications: CSCI 1300 or equivalency (required).

D. Minor in Teaching and Learning (Secondary Pathway) is highly recommended but not required.

II. Teaching Fields/Area of Certification Students seeking secondary certification (grades 7-12 or EC-12 depending on the state certificate) will be certified in one or more teaching fields (the content area) at the end of the Master of Arts in Teaching graduate program. At the undergraduate level, students must complete a major in order to graduate from the university. This major (and additional courses where noted) forms the basis of the requirements for the teaching field and prepares students for the certification content exam. Students may complete more than one major (with any additional content area requirements) in order to attain certification in more than one area. Students need at least one teaching field from among the certificate fields listed below as well as the required education coursework. Trinity only offers certification in the fields listed. Students with a major other than their intended teaching field should speak with a faculty member about certification options. Courses listed after the major have been identified as important courses that meet the content standards for Texas certification. Some students will be able to take these courses within the major ( including ), while other students will need to take the courses in addition to the major ( plus ). Major advisers and the supplemental adviser within the education department will be able to advise students in each area.

## Certification Areas:

- Art EC-12 Certification
  - Art Major, including ART 2470; two (2) of the following courses: 3330, 3340, 3350, 3-60, 3372 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





- 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:

  - History Major, including HIST 3376 and 3388, plus 1 course from U.S. History, 1 course from European History, and at least 1 course each from 3 of the following 4 fields: African History, Asian History, Latin American History, and Middle East History
    - Plus Economics (ECON 1311\*, 1312\*, 3117) [ECON 2301 and one (1) upper division economics course are recommended]
    - Plus Political Science (PLSI 1301\* and 1331\*)
    - Plus one of the following courses: URBS 1316/SOCI 1316, PSYC 1300\*, or SOCI 1301\*
  - Economics Major, including ECON 2301 and 3117
    - Plus History (HIST 3376 and 3388, plus 1 course from U.S. History, 1 course from European History, and at least 1 course each from 3 of the following 4 fields: African History, Asian History, Latin American History, and Middle East History)
    - Plus Political Science (PLSI 1301\* and 1331\*)
    - Plus one of the following courses: URBS 1316/SOCI 1316, PSYC 1300\*, or SOCI 1301\*
  - Political Science Major, including PLSI 1301\* and 1331\*
    - Plus History (HIST 3376 and 3388, plus 1 course from U.S. History, 1 course from European History, and at least 1 course each from 3 of the following 4 fields: African History, Asian History, Latin American History, and Middle East History)
    - Plus Economics (ECON 1311\*, 1312\*, 3117) [ECON 2301 and one (1) upper division economics course are recommended]
    - Plus one of the following courses: URBS 1316/SOCI 1316, PSYC 1300\*, or SOCI 1301\*



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

The fifth year of the M.A.T. program consists of a summer session and two semesters (30 hours). Upon completion of the fifth year, students receive a M.A.T. (Master of Arts in Teaching), a professional degree.

Those students seeking Certification EC-6

ELED 6390 School Law and Policy Analysis  
ELED 6393 Community Building and Civic Engagement  
ELED 6394 Systems Design and Implementation  
ELED 6395 Innovations in Teaching and Learning  
ELED 6693 Clinical Practice Advanced Internship

## 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. Upon completing the 60-credit hour program, students are eligible for national certification by NASP. The Trinity University program meets the certification and licensure requirements by states that have adopted NASP standards such as Texas. The course of study includes:

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

## Courses

### EDUC-1105 Seminar on Current Issues in Education

A study of the principal issues in public education that affect teaching and learning. Sessions include field trips to selected institutions in the San Antonio community.

### EDUC-1106 Seminar on School and Community

A study of selected schools and the communities 5 el A study of s in the include field trips to San Antonio co





EDUC-3332 Reading Difficulties With Diverse Populations

abroad through international programs such as the Peace Corps or teaching abroad programs. The course will

### EDUC-5-99 Problems in Education

A conference course in education. The student pursues independent research in the area in which he/she is concentrating. Credit can vary according to work prescribed. May be taken more than once provided content differs. Prerequisite: Approval of advisor and instructor.

### EDUC-5263 Graduate Intern Seminar: EC-6

This weekly seminar is designed to help interns prepare for and make sense of their classroom-based experiences. Interns engage in action research, develop an exit portfolio, examine student work through use of protocols, and discuss professional readings. To be taken concurrently with EDUC 5763 or EDUC 5464.

### EDUC-5273 Graduate Intern Seminar: Secondary

### 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-5346 Music Pedagogics

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

### 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.

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-5671 Clinical Practice: Secondary

A supervised internship in secondary school sites where comprehensive practical experiences involving the school and community are provided. Students work with a team of professors, classroom teachers, and other school personnel to research, assess, and internalize the teaching-learning process. These teams rotate through a variety of settings in the secondary schools.

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

An internship in elementary school sites where students assume full responsibility for teaching and classroom management in an independent, but supervised experience for a full semester.

#### EDUC-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-5948 Advanced Clinical Practice in Music

schools and school districts. An overview of administrative responsibility as it relates to school personnel, students, facilities, and the general public is provided.

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-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.

### 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.

### EPSY-5181 Human Development and Learning Lab







### EPSY-6382 Group and Family Interventions

Current theories, methods, and applications of group and family interventions are studied. Recognition of the influence of small group dynamics and process on learning and communication are analyzed. Must be taken in conjunction with EDUC 6183.

### EPSY-6384 School Psychology Practice

Overview of the legal, ethical, and professional issues in the practice of school psychology. Examination of the role of the school psychologist in culturally and socially diverse educational and community organizations. Exploration of the interrelationship of the school psychologist to the campus student services personnel.

### EPSY-6385 Developmental Assessment: Infants and Young Children

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



English

Faculty





- Submit a completed draft of the senior thesis to the thesis adviser and to a second faculty reader approved by the departmental Honors committee.
- Submit the completed senior thesis to the departmental Honors committee, along with formal recommendations from the thesis adviser and second reader.
- Make an oral presentation of the senior thesis to the department.

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## Courses

### ENGL-1302 Writing Workshop

A course in composition that stresses expressive, analytical and persuasive writing with emphasis on rhetorical strategies in relation to aims and audience. The course is designed to refine student skills in critical reading, analysis, and judgment.

### ENGL-1303 Intermediate Writing

Students who have exempted from ENGL 1302 with a score of 4 or 5 on the Language and Composition AP examination or a score of 5 on the Literature and Composition AP Examination but who wish to take 1302 may register for this section and attend a 1302 section after receiving the consent of the instructor. Students registered for 1303 will be expected to do work beyond the requirements of 1302. Prerequisite: Consent of instructor.

### ENGL-2301 British Literature: Old English to 1800

An examination of the development of British Literature from its beginnings to 1800.

### ENGL-2302 British Literature: 1800 to the Present

An examination of the literary expressions of cultural changes from 1800 to the present, with a primary concentration on British writers.

### ENGL-2303 American Lit: Colonization to 1900

An examination in the literary expressions of cultural changes in America from the early explorers and colonists through the end of the nineteenth century.

### ENGL-2304 American Literature: 1900 to the Present

An examination of the literary expressions of cultural changes in America from 1900 to the present.

### ENGL-2305 World Literature

A course designed to complement the American and British Literature offerings. Includes, primarily, texts from



European, Asian, African, and Central and South American cultures written in the past 2,000 years in all major genres.

### ENGL-2306 Advanced Placement I

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

### ENGL-2307 Advanced Placement II

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

### ENGL-2308 The Literary Imagination

This course introduces students to a variety of topics in the study of literature. Individual offerings emphasize historical, thematic, or genre approaches to reading and writing about literary texts (consult appropriate Class Schedule for details). First Year or Sophomore 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, ENGL 2340 and MUSC 2340.)

### ENGL-2373 African American Literature

Survey of African American literature from the early slave narrative to the present. Examines the history, culture, and intellectual traditions informing this literature, as well as the political and aesthetic debates that shaped the tradition.

### ENGL-3-90 Directed Studies-- Junior Level

Independent Study. Discretion of Instructor. Prerequisite: Consent of Instructor

### ENGL-3304 Writing Tutors/Writing Workshop

Writing tutors assigned by permission of instructor to individual sections of ENGL 1302. At the discretion of the instructor, tutors assist students in the process of producing written essays. Office hours and class attendance required. Prerequisite: Consent of Instructor

### ENGL-3312 Advanced Fiction Writing

Extensive writing in forms and techniques of fiction. May be repeated for up to 6 hours credit with the permission of instructor. Prerequisite: ENGL 3302 or consent of instructor

### ENGL-3313 Advanced Poetry Writing

Extensive writing in forms and techniques of poetry. May be repeated for up to 6 hours credit with permission of instructor. Prerequisite: ENGL 3303 or consent of instructor

### ENGL-3314 Advanced Exposition and Argument

Intensive writing workshop concentrating on individual projects and focusing on the traditional rhetorical principles of invention, structure, and style. Prerequisite: ENGL 1302 or equivalent or consent of instructor

### ENGL-3315 Advanced Writing for the Professions

Intensive writing workshop concentrating on individual writing concerns with relation to specific professions. Focus on audience, structure, and professional expectations.

### ENGL-3316 Writing Internship

Supervised work on individually specified projects under the supervision of departmental faculty. Each project involves work on literary publications. The number of internships varies with available opportunities. Pass/Fail only.

### ENGL-3335 Rhetorical Analysis

Introduction to rhetoric as a mode of analysis as it applies to discursive modes and genres. (Also listed as HCOM 3352) Prerequisite: 6 hours above English 1302

### ENGL-3345 Structure of English

An introduction to the linguistic structures of English and of human language in general. The course includes phonology, word formation, sentence structure, and vocabulary development, as well as a brief introduction to

upon the relation between cultural changes and changes in English vocabulary, grammar, pronunciation, and spelling. Prerequisite: 6 hours of English above 1302

### ENGL-3356 Readings in Old English Literature

A survey of the major genres of Old English literature in their cultural context: heroic poetry, elegies, Biblical narratives, riddles, the saint's life, homilies, and theological tractates. Prerequisite: ENGL 2301, 3355, or consent of English ab

Study of selected poetry from nineteenth-century England. Emphasis on major authors and movements from the Romantics, the Victorians, or the Edwardians. Prerequisite: ENGL 2302 or consent of instructor.

#### ENGL-3367 British Literature, 1900 - Present

Studies in major British writers and literary movements. May be repeated when topics vary. Prerequisite: ENGL 2304 or consent of instructor.

#### ENGL-3370 Early American Literature

Examines the literature of the colonies and early republic, up to 1830. Considers literature in the light of Puritan and Enlightenment attempts to build a nation as well as the social conflicts that undermined those projects.

Prerequisite: ENGL 2303 or consent of instructor.

#### ENGL-3372 American Literature, 1900 - Present

Studies in major American writers and literary movements. May be repeated when topics vary. Prerequisite: ENGL 2304 or consent of instructor.

#### ENGL-3375 Postmodern Literature

Major authors and issues involved with the postmodern aesthetic. Prerequisite: ENGL 2302, 2304 or consent of instructor.

#### ENGL-3381 Modern Poetry

Examines the major figures and movements of poetry written in English during the twentieth and twenty-first centuries. Prerequisite: ENGL 2302, 2304 or consent of instructor.

#### ENGL-3383 The British Novel

Study of the development of the novel from Defoe through the twentieth century. Prerequisite: ENGL 2301, 2302 or consent of instructor.

#### ENGL-3385 The Continental Novel

Study of a selection of novels in translation from French, Russian, and German literatures. Includes Balzac, Hugo, Dostoevsky, Koestler, Hesse, and Boll. Prerequisite: ENGL 2302, 2304, 2305 or consent of instructor.

#### ENGL-3386 Theory of the Novel

Evolution of the novel from its roots in the seventeenth and eighteenth centuries to its modern flowering in the twentieth. Includes Fielding, Austen, Eliot, Dickens, Hardy, Conrad, James, Woolf, and Faulkner. Prerequisite: ENGL 2311 or consent of instructor.

#### ENGL-3401 Introduction to Non-Fiction Writing

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



This course examines the development of the British and American novel after 1900, with an emphasis on how the works reflect the changing concepts of time, space, and personality. Topics include literary experimentation, Freudian theory, The Great War, stream of consciousness, American expatriation, selfhood, solipsism, and sexual aesthetics. Prerequisite: At least one ENGL course (Above ENGL 1302)

#### ENGL-3484 The American Novel

This course examines the formal and thematic development of the American novel from the early national period to the present, focusing on the evolution of American readers, the novel's engagement with historical controversy and pressing social issues, and the changing place of literary print culture in relation to wider shifts in technology.

Prerequisite: 1 English Course (above ENGL 1302)

#### ENGL-4-90 Dir Studies - Senior Level

Independent study. Discretion of instructor. Prerequisite: Consent of Instructor

#### ENGL-4302 Elizabethan and Jacobean Playwrights

Non-Shakespearean drama from the opening of professional theaters (1576) until the closing under Cromwell (1642). Includes Kyd, Marlowe, Jonson, Webster, Middleton, and Rowley, Beaumont and Fletcher, and Ford. Works studied in relation to social and theatrical conditions and contemporary literary criticism. Prerequisite: ENGL 2301 or consent of instructor.

#### ENGL-4304 Restoration Drama

Examines English drama from 1660 to 1800. Covers heroic drama, tragedy, comedy, and satire. Prerequisite: ENGL 2301 or consent of instructor.

#### ENGL-4305 Topics in Creative Writing

Extensive writing in a specific form or genre. May be repeated once when topics vary. Prerequisite: ENGL 3301, 3302, or 3303, or consent of instructor.

#### ENGL-4317 Seminar in Literary Methods

An examination of literary theory for advanced students. May entail the study of one or more methodologies, such as psychoanalysis, feminism, or reader-centered criticism. May be repeated for up to 6 hours with permission of the instructor; if appropriate, may count toward a distribution requirement (in which case it does not count as an elective). Prerequisite: ENGL 2311 or consent of instructor.

#### ENGL-4318 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).

### ENGL-4319 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: ENGL 2301 or consent of instructor.

### ENGL-4325 Seminars in Literary Periods

Examines issues and authors within their specific historical periods. May be repeated when topics vary. Prerequisites: Appropriate survey and ENGL 2311 or consent of instructor.

ENGL-4420 Studies in Early Modern British Lit

Selected topics concerning the intersection of literature and culture in sixteenth and earlier seventeenth-century



# Engineering Science

## Faculty

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

[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.](#) , Assistant Professor

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

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

## Overview

## Mission

The mission of the Engineering Science Department at Trinity University is to provide talented 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



those listed below, and they generally apply to all courses taken up to the time of application.

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

A. Completion of MATH 1311, 1312, and 2321 with an average of 2.0 or better satisfy the



1312/1112; CHEM 1318/1118 plus a basic science or math elective for a total of at least 33 credit hours.

C. ECON 1311, plus one ethics course: PHIL 1354, PHIL 2359, or RELI 1320.

D. Proficiency in any modern high-level computer programming

ENGR 1313	3
MATH 1312	3
PHYS 1312	3
PHYS 1112	1
Pathways	3
Total	16

## Courses

### 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-1313 Mechanics I

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

### ENGR-1381 Engineering Analysis & Design I

Introduces students to the engineering design process utilizing a competitive design project. Small groups of students conceive, design, build, and test a structure or device to best achieve specified performance criteria under realistic constraints. Emphasis is placed on Computer Aided Design (CAD). Supporting topics Engineering Office (ter pD).7

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-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-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-2181 Engineering Design III

Continues the development of students' design skills through a project emphasizing constraints including: ethics, health and safety, manufacturability, sustainability, economics, the environment, and social and political issues. Supporting topics include project management, literature search and communication skills. Oral and written reports are required. Prerequisite: One course in engineering

### ENGR-2182 Engineering Design IV

Continuation of ENGR 2181: final design, construction, testing, and evaluation. Engineering economics and life-cycle costs are introduced in support of the project. Multimedia presentations are required. Prerequisite: ENGR 2181.

### ENGR-2309 Professional Practice

This is a course designed for future professionals whose fields involve a technological component including aspiring engineers, scientists, managers, and others in technology-oriented fields. This course explores topics of enduring significance and with humanistic dimensions, specifically targeting future professionals whose fields 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. (Offered every Spring) 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.

### 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-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. Prerequisite: CHEM 1318.

### 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-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-3121 Signals and Systems Laboratory

Laboratory to accompany ENGR 3321. Af and hingS 90 DTopi



employ circuits, electronics, electromagnetics, and controls. Supporting topics include safety, electrical measurements, component tolerances, specification, performance standards and manufacturability. An introduction to six-sigma concepts. Oral and written reports are required. 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. (Offered every Spring.) 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-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-3327 Thermodynamics I

Basic principles of macroscopic thermodynamics including pressure-volume-temperature relationship of pure substances, work, heat, first and second laws of thermodynamics, entropy and the degradation of energy, thermodynamic system analysis, computer-aided design, and analysis of simple power and refrigeration systems. Prerequisites: ENGR 2311

### ENGR-3339 Mechanics of Materials

Stresses and deflections of structural elements including stress strain relations, Mohr's circle, tie rods, columns, beams, torque tubes, and statically indeterminate systems for both elastic and plastic stress levels. Prerequisite: ENGR 1313.

### ENGR-3355 Control Systems I

Techniques of modeling and analyzing mechanical and electrical systems, linear systems including feedback control systems, solutions to system differential equations using classical techniques, both analytical using the Laplace transform, and numerical methods; transfer functions, transient and steady-state response, stability, and frequency response. Prerequisites: ENGR 2320, MATH 3316. Corequisite: ENGR 3155.

### ENGR-4-91 Problems in Engineering



Homeostasis and control systems. Prerequisites: CHEM 1318 and MATH 1311.

#### ENGR-4356 Modern Control System Design

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

#### ENGR-4357 Chemical Reaction Engineering

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

#### ENGR-4358 Biochemical Engineering



consent of Department Chair.

# Entrepreneurship

## Faculty

[Richard V. Butler, Ph.D.](#) , Professor, Economics

[Luis E. Martinez, Ph.D.](#) , Director of the Center for Innovation and Entrepreneurship

[Daniel Walz, Ph.D.](#) , Professor, Finance and Decision Sciences

## 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.

## Requirements

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.

## Core Courses

From this list select twelve hours of coursework, including the specified section of GNED 1300 or GNED 2340 and ENTR 3340, 3341, and 4193.

- GNED 1300 First Year Seminar: Creativity and Entrepreneurial Behavior
- GNED 2340 Creative Thinking and the Artistic Process
- ENTR 3-90 Directed Studies Junior Level

- ENTR 3340 Innovation, Design, and Entrepreneurship
- ENTR 3341 Entrepreneurial Planning and Strategies
- ENTR 4-90 Directed Studies Senior Level
- ENTR 4193 Capstone E-Team Project

## Elective Courses

Along with members of the advisory committee, students will select three elective courses that meet the following criteria: (1) the specific courses selected should encourage students to develop essential skills for their entrepreneurial development or lead students to investigate broader areas of social concern; and (2) the courses must be approved by the advisory committee of the minor.

## Courses

ENTR-2111 Inttt      ses   ce b   ce b   ce b   r   v0      ce   b g e b   students to develop essen

### ENTR-3-95 Internship

An off-campus internship with an accepted employer in the private, public, or non-profit sector. This structured and supervised professional work experience must be pre-approved and include a relevant deliverable assignment, service, or project for the company or non-profit. 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. Must be taken Pass/Fail. (Offered every semester.) Prerequisite: Consent of the instructor

### ENTR-3340 Innovation, Design, and Entrepreneurship

This course focuses on the process of innovation and design for entrepreneurial venture development. In this course students learn to develop a persuasive structure to make innovative ideas attractive and defensible. Design is an essential step in transforming innovative ideas into practical reality. This course focuses on the use of design as a form of expression, including development of functional prototypes of innovative ideas potentially leading to entrepreneurial ventures. In this course students are required to form multidisciplinary design teams. Students develop the knowledge, skills, and behaviors related to developing innovative ideas, design methodologies, use of appropriate inlina









- BIOL 4351 Conservation Biology
- BIOL 3426 Vertebrate Evolution
- BIOL 3427 Plant Biology
- BIOL 3440 Animal Behavior

Geosciences (4 of the following):

- GEOS 3300 Oceanography
- GEOS 3411 Hydrology
- GEOS 3400 Earth Materials
- GEOS 2304 Earth Surface Processes
- GEOS 2401 Earth History
- GEOS 3308 GIS and Remote Sensing

Physics (4 of the following):

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

Engineering (4 of the following):

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

**B. Environmental Policy: (18 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

And 1 course from each of the following areas:

1. Analytical Approaches: Economics:

BUSN 3338 Government Regulation of Business (also listed as ECON 3338)

- CMLT 2301\* World Literature 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
- HIST 3392 Special Topics in History: History of U.S. Science and Technology
- PHIL 3432 Philosophy of Science
- PHIL 3451 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 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
- ECON 1311\* Principles of Microeconomics
- GEOS 1304\* Environmental Geology

### II. Required upper division courses (check catalog for prerequisites)

- ECON 3333\* Economics and the Environment (also listed as URBS 3333)

- GEOS 3300\* Oceanography
- URBS 3333 Economics and the Environment (also listed as ECON 3333)

### III. One course from the following list (check catalog for prerequisites)

- BIOL 3434 Ecology
- BIOL 3440 Animal Behavior
- CHEM 2319\*, Organic Chemistry I
- CHEM 2119\* Laboratory Methods in Organic Chemistry
- ENGR 2311 Mass and Energy Balances
- GEOS 2304 Earth Surface Processes
- GEOS 3411 Hydrology
- GEOS 3308 GIS and Remote Sensing

### IV. One course from the following list (check catalog for prerequisites)

- ANTH 2357 Humans and the Environment
- ANTH 3367 South American Indigenous Peoples: Conquest and Development
- ANTH 3364 Morality in the Marketplace
- ANTH 4354 Seminar in Primatology
- CMLT 2301 World Literature and the Environment
- ECON 3318 Global Economy
- ECON 3334 Urban Economics (also listed as URBS 3334)
- ENVI 4390 Special Topics in Environmental Policy
- HIST 3382 The City in History (also listed as URBS 3305)
- HIST 4360 Seminar in United States History: Environmental History
- PLSI 3313 Policy Analysis and the Policymaking Process
- PLSI 3346 Geography and World Politics
- URBS 3305 The City in History (also listed as HIST 3382)
- URBS 3334 Urban Economics (also listed as ECON 3334)
- Recommended: ENVI 4301 Senior Seminar in Environmental Studies

The course is available to seniors and may be taken only once for credit.

## ESAC Certification: "Green Leaf" Courses for





- 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)

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

This course is an introduction to methods and analysis used by different disciplines in the environmental sciences. Three field investigations will be conducted by students that involve field and laboratory methods using



# 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; Director

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

[Curtis Swope, Ph.D.](#) , Assistant 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 to Film Studies).**

**B. One of the following seven courses:**

- CHIN 3313 Cities of Strangers: Trans-Cultural Chinese Cinema
- ML&L 3303 Chinese Cinema



- 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
- COMM 4350 Advanced Producing
- 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

# 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.](#) , Professor; Chair

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

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

## Overview

### 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.

### Bachelor of Science Degree in Geosciences

The Bachelor of Science program prepares students for graduate work in geosciences or for entry-level positions in geosciences or related fields. The program serves the student interested in a broad-based introduction to geosciences and provides the opportunity for research in the field or laboratory setting for students at the upper division level.

## Guidelines for Acceptance of Majors

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

- Completion of GEOS 2400, and one of GEOS 2401, 2304, or 3400 with an average grade of C or better.
- A cumulative grade point average of at least 2.0.

## II. Provisional Acceptance

Provisional acceptance may be granted to students who have not yet met the above requirements if there is a reasonable expectation that they can complete the major.

## The Minor

This course of study is designed for students who desire to study geosciences in some depth although their major is in another field.

## Honors in Geosciences

A student in Geosciences may work toward Departmental Honors by satisfying the University guidelines for Departmental Honors published in this bulletin, including the minimum 3.33 cumulative grade point average and 3.33 grade point average or better in the major.

## Application and Procedures

Students planning to write a thesis in geosciences must discuss research plans with at least two department faculty members and secure the support of the thesis director and second reader by the end of the Junior year. Normally the student will initiate research during the Junior year or the summer following the Junior year.

## Requirements

## The Major

### Departmental requirements: Bachelor of Arts Degree in Earth Science (ESYS)

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

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

1. One of GEOS 1303, GEOS 1304, GEOS 1405, or GEOS 1406.



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; BUSN/ECON 2301; CHEM 1318, 1118, 2319, 2119; MATH 1307, 1308, 1311, 1312, 1320; CSCI 1320; PHYS 1303, 1309, 1311, 1111, 1310, 1312, 1112; PSYC 2401.
2. At least 6 credit hours from CMLT 2301, 2350; ECON/URBS 3330; ANTH 2310, 2357; PHIL 2350, 2356; PLSI 3313; SOCI 1316, 2314; URBS 3340.

**C. University requirements:**

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

## Departmental requirements: Bachelor of Science Degree in Geosciences

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





sections, correlation diagrams, and aerial photos. Three class hours and three laboratory hours a week. Field trips are required; field trip costs must be paid by each student. Prerequisites: GEOS 1407, or GEOS 1303 and 1101, GEOS 1304 and 1101, or GEOS 1306 and 1101.

#### GEOS-3-90 Directed Studies - Junior Level

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

#### GEOS-3-91 Special Topics

An in-depth study of a topic in geosciences that is otherwise not covered in existing courses. May be repeated for credit on different topics. Prerequisite: Consent of instructor.

#### GEOS-3-92 Internship

An off-campus internship in professional geoscientific practice. Internships may be arranged with businesses, nonprofit institutions and government agencies and must be supervised by a faculty member. Geoscientific field work, laboratory work or analysis must be conducted during the course of the internship. May be repeated for a maximum of 3 credit hours. May only be taken on a Pass/fail basis. Prerequisites: Prior written approval of the supervising faculty member and departmental permission.

#### GEOS-3120 Majors' Field Trip

Field study of selected areas in Texas and surrounding regions: emphasis on developing observational and interpretative skills in the field. May only be taken on a pass-fail basis. Field trip costs must be paid by each

and the relationship between tectonics and rock-forming processes. Prerequisite: GEOS 3400

### GEOS-3319 Field Geology in China

Field study of the evolution of sedimentary basins and mountain belts in China. Emphasis on developing observational and interpretive skills in the field. Additional goals are to gain an appreciation of Chinese culture, language and history by working together with Chinese students and studying a variety of sites of historical and cultural importance. Students interested in geosciences, environmental studies, anthropology, and Chinese languages and cultures are encouraged to apply. Prerequisites: One course in geology, consent of instructor.

### GEOS-3321 Geochemistry

A study of geochemical principles and their application in solving geologic problems. Emphasis is placed on topics in inorganic geochemistry, including phase equilibria, isotopes and trace elements. Prerequisites: GEOS 3400 and MATH 1311 or consent of instructor.

### GEOS-3400 Earth Materials

An introduction to the origin, classification, and identification of minerals and rocks, including topics related to crystal systems and structures, bonding, mineral chemistry, the nature of magma, solidification of magma, magma genesis and evolution, types of metamorphism, metamorphic mineral reactions, metamorphic zones and facies, determination of metamorphic grade, and the importance of mineral and rock resources to our society. The laboratory will emphasize methodologies and techniques used to identify and classify common minerals and rocks in hand specimen and thin section. Three class hours and three laboratory hours per week. Prerequisite: GEOS

1407, or GEOS 3321 and 1101, or GEOS 130 (GEOS 3400 Earth Materials) e Its in Mineraine Qrsc tin

### GEOS-3401 Structural Geology

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# 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.

### GNE-1300 First Year Seminar

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

### GNE-1301 Readings in Science and Religion

An examination of key issues regarding human nature and our place in the universe from religious, literary, and scientific perspectives, focusing on major debates in the discourse between science and religion in Western culture over the last five hundred years. Involves readings from primary texts, discussion of ideas in the texts both orally and in writing, and instruction in analytical and argumentative writing. Offered to first-year students as alternative to First Year Seminar (GNE-1300).



"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 access and develop their own creative thinking skills in concert with traditional, analytic modes. (Also listed as ART 2314, DRAM 2340, ENGL 2340 and MUSC 2340.)

### GNE-3-12 McNair Research Internship

Independent Study in connection with McNair Scholars Program research activities. May be repeated for a maximum of four hours credit. Pass/Fail only. Prerequisite: Admission to the McNair Scholars Program and consent of instructor.

### 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-3110 McNair Tutorial - Junior Level

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

### GNE-3325 The U.S. Latino Experience

An examination of the evolution of the Latino communities of the United States, with attention to the role of U.S. foreign policy in creating Latino communities, the impact of domestic policy on the various sub-groups, continuity and change in the Latino communities of the U.S. and the emergence of a trans-national Latino community and culture in the U.S.

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

An examination and evaluation of U.S. Latino artistic/cultural expression, with specific attention to the artistic



# Health Care Administration

## Faculty

[Brad M. Beauvais, Ph.D., FACHE](#) , Assistant Professor

[Amer A. Kaissi, Ph.D.](#) , Professor

[Jody R. Rogers, Ph.D.](#) , Visiting Professor

[Edward J. Schumacher, Ph.D.](#) , Professor; Chair

[Patrick Shay, Ph.D.](#) , Assistant Professor

[Mary E. Stefl, Ph.D.](#) , Professor

## Overview

administration

6. 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.**

- Two letters of recommendation from individuals who are familiar with the applicant's academic and/or employment performance

**The general deadline is July 1.**

Provisional admission will be considered if the grade point average on the last 60 hours of undergraduate course work is less than 3.0. A graduate degree can obviate the need to take the GRE or GMAT. Admission to the Executive Program assumes the applicant has basic knowledge of accounting, statistics, and economics. Competency in computer spreadsheet applications (e.g., Excel) is strongly encouraged prior to enrolling. An on-campus interview is required.

Trinity University regulations permit transfer of up to twenty percent of the total degree requirement of appropriate graduate credit from an accredited institution after satisfactory completion of 12 credit hours at Trinity University. Graduate courses taken at another accredited university will be transferred in accordance with the policies stated in the Trinity University Courses of Study Bulletin .

## Requirements

## Course of Study

A Master of Science in Health Care Administration will be conferred by Trinity University upon completion of a course of study that includes 16 months of on-campus study and an administrative residency, usually of 12 months. A class is admitted in the fall semester. Degree requirements may be met under either a thesis or non-thesis alternative. Each plan requires 48 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 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



- HCAI 5380 Health Care Human Resources Management
- HCAI 5353 Financial Management for Health Care Administration

#### Second Year - Spring Semester

- HCAI 5313 Economic Aspects of Health Care Administration
- HCAI 5360 Leadership Effectiveness
- HCAI 5456 Seminar in Strategic Planning and Marketing

#### Second Year - Summer Semester

- HCAI 5333 Legal Aspects of Health Care Administration
- HCAI 5451 Seminar in Strategic Management of Health Services

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

## Courses

### HCAD-3-91 Special Topics

Special topics or contemporary issues in health care administration, including new forms of health services organization, management, delivery, or financing. Permission of the instructor is required. May be repeated on different topics.

### HCAD-3333 Health Economics

An introduction to the application of the tools of microeconomics to issues in the organization, delivery, and financing of health care. Economic analysis will be utilized to better understand critical issues in health care such as the level and growth of health expenditures, the role of the government versus the private sector in financing care, the relationship between doctors, hospitals, insurance providers, patients, and employers, and the role of society in providing for the uninsured. (Also listed as ECON 3333.) Prerequisite: ECON 1311 or consent of the instructor.

### HCAD-3350 The U.s. Health Care System

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

#### HCAD-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-5101 Seminar in P the organi7

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### HCAD-5311 Health Services Organization and Policy II

Continuation of HCAD 5310 providing an overview of the organization, delivery, financing, and evaluation of the U.S. health care system. Emphasis is on: health care financing and regulation, organized delivery models, quality assessment and management, and health program effects on patients, providers and payers.

### HCAD-5313 Economic Aspects of Health Care Administration

Application of economic concepts to the health care sector. Demand and supply, elasticity, health insurance, regulation, competition, and cost-effectiveness analysis. Emphasis on use of economic analysis for strategic planning.

### HCAD-5330 Health Care Organization Theory and Management

Cases, concepts, and research findings in health care organizational behavior and administration. Analysis of the impact of individuals, groups, organizational structure, and environment on management performance. Instruction on formulating organizational strategy.

### HCAD-5333 Legal Aspects of Health Care Administration

The legal principles and processes influencing health care providers. Basic instruction in contract law and tort law. Focus on major health care liability producing areas and interface between law and ethics.

### HCAD-5340 Health Care Strategic Planning and Marketing

An analysis of the strategic planning and marketing processes used by health care managers. The processes examined include the uses of strategic planning models and marketing methodologies as they apply to patients, physicians, and managed care buyers as separate markets for health care services.

### HCAD-5350 Seminar in Current Health Care Issues

This is an integrative seminar where current topics in health care administration are examined in a broad context. Skills and knowledge introduced earlier in the curriculum are used to analyze current health care issues, and special efforts are made to include the perspective of practitioners.

### HCAD-5353 Finance Management for Health Care Admin

Financial management concepts and techniques, with particular attention to differences between for-profit and not-for-profit organizations and regulatory constraints in the health care sector. Topics include: ratio analysis, cost accounting, rate setting, capital budgeting, sources of financing, cash management, variance analysis, and current issues.

### HCAD-5360 Seminar in Contemporary Issues

Contemporary issues in health care administration including new forms of organization for health services delivery, financing of health care, and increased governmental regulation of health services. May be repeated on different topics.

HCAD-5361 Seminar in Contemporary Issues

### 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

### 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.



Analysis of health manpower; professional, technical, and continuing education; credentialing and emerging directions in strategic human resource management. The recruitment, selection, compensation, retention, and performance evaluation of health manpower; the role of independent contractors of services; and the impact of federal legislation such as NLRA, FLSA, OSHA, EEOA and ERISA.

#### HCAI-5451 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.

#### HCAI-5456 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 uponq Thter uponq TT,









6. Capstone for the Theatre Major, if Primary Major (3 hours):

- THTR 4393 Capstone for Theatre Majors OR both THTR 4398 and 4399 Honors Thesis

7. 12 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 40-hour major.

8. At least 15 hours of the Theatre major must be upper-division coursework.

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

University requirements: completion of all other required elements of the Pathwayscurriculum 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:

- 6 of the 18 hours must be selected from the required core of Theatre Communication courses for the major.
- 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)

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 OR
- THTR 1352 Acting I
- THTR 2100 Stage Makeup Design
- THTR 2310 Principles of Design OR
- ART 1410 Design
- THTR 2314 Principles of Stage Lighting
- THTR 2332 Play Structure and Analysis
- THTR 2354 Vocal Performance for the Actor (also listed as HCOM 2313)
- THTR 2356 Physical Performance for the Actor
- THTR 3331 History of Theatre I: The Classical Stage to the Theatre of the Enlightenment OR
- THTR 3332 History of Theatre II: From Romanticism to Performance Art

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









meeting of faculty, staff, and other students toward the end of their final semester. Prerequisite: Declared major classified as senior.

#### HCOM-4394 Seminar in Human Communication

A variable content seminar emphasizing selected topics in human communication theory, research, and/or application. May be repeated for credit with a different topic. Maximum credit is nine credit hours.

#### HCOM-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.

#### THTR-1100 University Theatre Company I



### 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

## THTR-2310 Principles of Design

This course is an experiential introduction to the art of design. Students explore 2-D and 3-D compositional problems and practice integrating visual elements with aesthetic principles to communicate creative solutions. Students may not receive credit for both ART 1310 and THTR 2310.

THTR-3-90 Directed Studies

examines the various means necessary to communicate a design to a producer, director, or client (sketching, drafting, painter elevations, and model making). Prerequisite: ART 1310 or THTR 2310 or consent of instructor.

### THTR-3315 Theatrical Scene Painting

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

### THTR-3320 Advanced Production Techniques: Computer Aided Design

Course will explore the increasing use of computer technology in the theatrical production. The course will acquaint the student with computer aided drafting, computer control of theatrical lighting, computer control and manipulation of sound for the theatre, and computer control of mechanized scenery. The course will also explore the potential integration of these systems. Prerequisite: THTR 1320 or consent of instructor

### THTR-3330 Dramaturgy

Dramaturgy combines advanced play analysis with writing, production research, collaboration with directors, and the presentation of written and visual materials to enhance a theatre company's and audience's understanding and appreciation of a dramatic text. Prerequisite: THTR 2332

### THTR-3331 History of Theatre: The Classical Stage To the Theatre of Enlightenment

This course explores the development of Western Theatre, covering Greek, Roman, medieval, Renaissance, and Enlightenment theatre and drama. Using historical and critical writings, dramatic texts, photography, and video resources, the course analyzes theatrical movements in their historical, aesthetic, and social context. (Offered every Spring.)

### THTR-3332 History of Theatre II

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.





of Theatre coursework and consent of instructor

### THTR-4215 Design Project

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

### THTR-4227 Stage Management Project

Provides the students with the opportunity to stage manage a university theatre production. Admission to course by consent of the Theatre Faculty and Staff.

### THTR-4340 Directing II

Builds on the fundamentals studied in Directing I to explore further the process of directing for the theatre, from image to context to created word. Special attention will be paid to working with essential elements of the stage, and developing resources into a created space of interaction. Image, time, space, text, character, relationship, rhythm, sound, will all be addressed as means of creating theatrical environment. The course is taught through practical work and developed presentation of short dramatic pieces. Prerequisite: THTR 3340 or consent of instructor.

### THTR-4393 Capstone for Theatre Majors

Theatre majors with senior standing will create a portfolio of Theatre coursework and production experiences, research career opportunities for the potential application of this portfolio, and present this synthesis to the Theatre faculty, staff, and students. Applicable guidelines are available from Theatre advisors. Prerequisite: Senior status

### THTR-4394 Seminar in Drama

An in-depth study of selected plays, dramatists, and/or movements. May be repeated when subject varies. Prerequisite: Junior or Senior standing or consent of instructor

### THTR-4398 Honors Thesis

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

### THTR-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.

# History

## Faculty

[Donald Clark, Ph.D.](#) , Professor

[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.](#) , Professor

[Kenneth Loiselle, Ph.D.](#) , Associate Professor

[Nicole Marafioti, Ph.D.](#) , Associate Professor

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

[Linda Salvucci, Ph.D.](#) , Associate Professor

[Lauren Turek, Ph.D.](#) , Assistant Professor

## Overview

A degree in history allows a student to expand critical thinking and writing capacities while gaining a new understanding our past and present. Students may cast a wide net to explore the histories of Africa, the Ancient World, Asia, Europe, Latin America, the Middle East and the United States.

## Requirements

## The Major

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

### I. Departmental requirements:

31 credit hours in history including a 4000 level seminar that serves as the capstone course for the major, and one course from each of these three areas: (a) United States history; (b) European history; (c) Asian, Middle East, Latin American history, and African history. A maximum of 12 hours from 1000-level courses may count toward the major.



## 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 history are as follows:

- 18 credit hours in history.
- At least 9 hours must be from upper division.

## The Honors Program

### I. University Requirements

### II. Departmental requirements:

#### **Admission to the program**

- 3.33 overall Trinity University G.P.A.
- 3.66 average department G.P.A.
- 3.66 average in the following courses:
  - HIST 3381: Historians and Their Craft
  - Seminar (HIST 4400, 4420, 4430, 4440, 4450, 4460, or 4470)

# Criteria for Social Studies 4-8 and 8-12 Certification

History Majors seeking certification in Social Studies 4-8 and Social Studies 8-12 must take HIST 3376, HIST 3388, and one course each from three of the following four fields: African History, Asian History, Latin American History, and Middle East History.

## Courses

### HIST-1140 Preceptorial in Latin American Cultural Traditions

This one hour course provides enrichment for interested students in HIST 1340, "Latin American Cultural Traditions." The preceptorial meets once a week for 50 minutes in order to discuss primary sources, such as written documents, maps, images, or literature. Special attention will be given to writing. Students must be enrolled concurrently in HIST 1340.

### HIST-1300 The African Experience

This course introduces students to aspects of African history and their relation to contemporary issues. The approach is interdisciplinary and incorporates visual and literary documents. Topics may include the politics of antiquity, the trans-Atlantic slave trade, the historical development of Islam, Christianization, colonization and decolonization, with particular attention to West Africa and the Ethiopian region.

### HIST-1310 Ancient Greece and Rome

A historical introduction to selected aspects of the political, cultural, and intellectual life of the Greek and Roman world, with particular attention to the Greek and Roman contribution to western civilization.

### HIST-1311 Gender and Identity in the Ancient World

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

### HIST-1312 Greeks, Romans, and Barbarians

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

### HIST-1320 History of China

China from the bronze age through the communist revolution, with special emphasis on institutions, social and

family life, philosophy and religion, and the effects of revolution and modernization. Survey readings supplemented by primary sources and a research component.

### HIST-1324 Modern East Asia

A survey of the East Asian region since 1800 that addresses the modern histories of China, Japan, Korea, and Vietnam. The course begins with late traditional patterns and covers the stresses of imperialism and colonialism, the emergence of revolutionary independence movements, Communism, and the ordeals of war and economic modernization.

### HIST-1332 Medieval Europe

Europe from fall of Roman Empire through the 14th century; rise of Christianity; barbarian invasions; development of feudalism; rebirth of urban civilization and achievements of medieval culture. Attention to social and political developments and major thinkers of the period. Lecture and discussion format.

### HIST-1333 Medieval Christianity: Tradition and Transformation, 200-1200

This course will focus on the emergence, spread, and development of Christian religion and culture in western Europe between 200 and 1200. Topics may include: Christianity in the Roman Empire; missionary activity in the early Middle ages; biblical and theological writings; growth of the western Church and papacy; traditions of worship and belief, including saints' cults and monasticism; Christian kingship and holy war; and interactions with non-Christians and heretics.

### HIST-1334 Early Modern Europe (1500-1815)

Chief cultural and political developments from the Renaissance through the Napoleonic Empire, including the Reformation, Counter Reformation, Thirty-Years War, Puritan Revolution, rise of absolute monarchy, the Enlightenment, and the French Revolution. Special emphasis on religion and social change, church-state relations, ideals of religious reform, and critiques of religion itself.

### HIST-1335 Modern Europe

Chief economic, political and social developments in European society since 1815, including the Industrial Revolution, Marxism, the Russian Revolution, political and economic imperialism, World Wars I and II, the Great Depression and the rise of totalitarian states.

### HIST-1340 Latin American Cultural Tradition

Beginning with the first Americans and ending with contemporary Latin America, this course provides a synthetic overview of the emergence of distinctive cultural traditions in Latin America. The "old" worlds of Pre-Columbian American, Iberia, and Africa are studied as are the historical processes that created "new" world cultural traditions in Latin America. Interested students may register concurrently for HIST 1140 (Preceptorial in Latin American Cultural Traditions).

### HIST-1350 Medieval Islamic History, 570 - 1517

Historical developments in the Middle East from the life of the Prophet Muhammad to the establishment of the Ottoman Empire: the initial expansion of Islam, the Umayyad and Abbasid empires, Islamic Spain, the Crusades, Fatimid and Mamluk Egypt, and the Turco-Mongolian migrations and conquests.

#### HIST-1351 The Modern Middle East

Historical developments in the Middle East from the Ottoman conquest of Cairo in 1517 to the present: the Ottoman empire during the age of Sulayman the Magnificent, European imperialism in the Middle East and Ottoman reform efforts, the rise of Arab nationalism and of Zionism, World War I and the creation of the modern Arab state system, the development of oil, the Cold War in the Middle East, the Arab-Israeli conflict, and the Persian-Arabian Gulf arena.

#### HIST-1360 The History of the United States Through Reconstruction

An integrative survey of major political, economic and social developments in the history of the United States of America from colonial settlement through the post-Civil War era of Reconstruction.

#### HIST-1361 The History of the United States Since Reconstruction

An integrative survey of the political, economic and diplomatic history of the United States of America from Reconstruction to the present, emphasizing those factors most influential in shaping contemporary society.

#### HIST-1370 The African American Experience Through Reconstruction

This course focuses on the social, cultural, and political history of African Americans from approximately 1619 to 1877. Topics may include the genesis and evolution of Black slavery and freedom, the Revolutionary War, Nat Turner's Rebellion, and the Civil War and Reconstruction. Particular emphasis is placed on changing ideals of freedom and how African Americans struggled both to achieve and then redefine ever-evolving conceptions of freedom, whether understood politically, socially, or economically.

#### HIST-1371 The African American Experience Since Reconstruction

This course focuses on the social, cultural, and political history of African Americans from approximately 1877 to the present. Topics may include the genesis and evolution of Jim Crow, Black urban migration, the Harlem Renaissance, the Civil Rights Movement, and the Black Power Movements. Particular emphasis is placed on changing ideals of freedom and how African Americans struggled both to achieve and then redefine ever-evolving conceptions of freedom, whether understood politically, socially, or economically.

#### HIST-1375 Value Conflicts in American History Through Reconstruction

Use of critical methodologies to assess the conflicting value systems in pre-industrial America and the way social, political and economic issues associated with those conflicts resulted in the formation of a U.S. national identity.

#### HIST-1376 Value Conflicts in Contemporary American History Since Reconstruction

Use of critical methodologies to assess the conflicting value systems prominent in post-industrial America and the way social, political and economic issues illustrate value conflict.

### HIST-1380 History of Modern Science

This course surveys major developments in the history of science from 1500 to the present, emphasizing the broad social and cultural implications of scientific change. Topics may include: early modern astronomy and anatomy; science and empire in the Enlightenment; the impact of Darwinism on science and religion; scientific racism; nuclear physics and World War II; and the rise of information technologies.

### HIST-1392 Topics in History

From time to time, the department will offer lower division courses not described in the Courses of Study Bulletin.



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-3332 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-3333 History of Paris

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 pl. consent of instructor.





### 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.

nineteenth century and the end of the Cold War.

### HIST-3370 Free Blacks in America

This course traces the lives of free blacks in America from the early seventeenth century to the Civil War. The course examines free blacks in relation to the origins of American slavery, the Revolutionary War, black radicalism, community development, antebellum slavery, and the American Civil War. Attention will be given to issues of class, gender, and identity. Prerequisite: At least one lower-division US History course, or Consent of Instructor.

### HIST-3372 Black Images in Film

Examines the depictions of blacks in America cinema from 1915 to present. This course introduces students to the history of blacks in film and examines how film has been used as a tool of social and political commentary. Attention will be given to issues of race, color, class, and gender. Prerequisite: At least one lower division U.S. history course or consent of instructor.

### HIST-3374 The Old South

Historical developments in the South from the late sixteenth century through the Civil War. This course will examine the South in relation to such major topics as the Revolutionary War, slavery, and the rise and fall of the Confederacy. Attention will be given to issues of race, class, gender, identity, and political ideology. Prerequisite: At least one lower-division 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.

### HIST-3381 Historians and their Craft

A colloquium on selected current debates, schools, and conflicting approaches among historians. Critical discussion of emerging fields as well as attention to ongoing debates within more traditional historical scholarship. Especially appropriate for anyone considering history as a major.

### HIST-3382 The City in History

Cross-cultural examination of urban life in the pre-industrial, industrial, and contemporary cities of Asia, Europe, and the Americas with special emphasis on the U.S. urban experience. Interdisciplinary perspective drawing upon history, political science, sociology, and urban planning for an understanding of the complexity of urbanization.



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.

#### HIST-4498 Honors Thesis

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

#### HIST-4499 Honors Thesis

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



V. The minimum number of hours for an interdisciplinary major is thirty-six (36). Of that number, at least eighteen (18) must be upper-division. No more than eighteen (18) hours may be taken from a single discipline. No more than nine (9) hours may be selected from courses that are used towards 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. Consider this to be a S Ijo7rS



European Studies: Professors Nanette Le Coat\*, Heather Sullivan

Mexico, the Americas, and Spain Program: Professors Arturo Madrid and Aaron Navarro

Middle East Studies: Professors David Lesch, Sussan Siavoshi

International Affairs: Professors Rosa Aloisi, Donald N. Clark\*

International Environmental Studies: Professors Richard Reed, David Ribble\*

Global Health 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:

1. SPAN 3301 (Advanced Grammar) or the equivalent
2. 3 credit hours of upper-division Spanish electives
3. 4 Spanish across the Curriculum courses or 7 credit hours in Spanish across the Curriculum courses

## Requirements



# The Major

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

## I. Program Requirements

1. No fewer than 33 credit hours.
2. Advanced Language study (at least 6 upper division hours). This requirement in the Middle East and East Asian Studies concentrations may be modified in special circumstances upon recommendation of the adviser and the consent of the International Programs director.
3. One of the following courses: HIST 3369 (U.S. Diplomatic History), PLSI 1342 (International Politics), or ANTH/SOCI 3349 (Globalization and Social Change)..
4. Required enrollment during each semester of residence in the major in INTL 3100 (International Studies Colloquium). Course may be repeated for 6 hours, only 3 of which may be applied to the major.
5. Completion of INTL 4104 (Senior Portfolio).
6. Concentrations (15-18 hours including courses taken while abroad).

International Studies concentrations are individual programs of study that are designed by students in consultation with the appropriate concentrations adviser. A student may propose courses from the concentration list (below), or with the approval of the adviser and program director, from among courses taken abroad or unlisted

2. 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.
3. One of the following courses: HIST 3369 (U.S. Diplomatic History), PLSI 1342 (International Politics), or ANTH/SOCI 3349 (Globalization and Social Change)..
4. 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. Concentrations (12-15 hours including courses taken while abroad). International Studies concentrations





- 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)

- ML&L 3340 Russian Literature in Translation I
- ML&L 3341 Russian Literature in Translation II
- RUSS 3303 Russian Culture
- RUSS 3305 Introduction to Russian Literature I
- RUSS 3306 Introduction to Russian Literature II
- SPAN 3311 Spanish Civilization
- SPAN 3331 Introduction to Spanish Literature
- SPAN 4334 Nineteenth-Century Spanish Literature
- SPAN 4336 Twentieth-Century Spanish Literature

## Music

- MUSC 3341 Music History and Literature I
- MUSC 3342 Music History and Literature II

## Philosophy

- PHIL 3422 Classical Modern Philosophy
- PHIL 3423 German Idealism

## Political Science

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

## Religion

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

## Sociology and Anthropology

- ANTH 3358 The Anthropology of International Relations

## Global Health Studies

(Professors Robert Blystone\*, Alfred Montoya)

Global Health Studies is a concentration within the International Studies minor. The basic requirements for the

International Studies minor are listed above ( The Minor. ) To complete the Global Health Studies concentration within this minor, Students must take four courses distributed as follows: INTL 3301 Global Health and at least one course in each of the following topical areas: behavioral, science, and statistics.

### **Behavioral Area**

- ANTH 3345 International Issues in Health and the Environment (also listed as SOCI 3345)
- ANTH 3355 HIV/AIDS: Nature, Power, Populations (also listed as SOCI 3355)
- SOCI 2332 Sociology of Health and Illness
- SOCI 3345 International Issues in Health and the Environment (also listed as ANTH 3345)
- SOCI 3355 HIV/AIDS: Nature, Power, Populations (also listed as ANTH 3355)

### **Science Area**

- ML&L 3321 German Cinema
- ML&L 3340 Russian Literature in Translation I
- ML&L 3341 Russian Literature in Translation II
- RUSS 3303 Russian Culture
- RUSS 3305 Introduction to Russian Literature I
- RUSS 3306 Introduction to Russian Literature II
- SPAN 3311 Spanish Civilization
- SPAN 3331 Introduction to Spanish Literature
- SPAN 4334 Nineteenth-Century Spanish Literature
- SPAN 4336 Twentieth-Century Spanish Literature

### **Music**

- MUSC 3341 Music History and Literature I
- MUSC 3342 Music History and Literature II

### **Philosophy**

- PHIL 3422 Classical Modern Philosophy
- PHIL 3423 German Idealism

### **Political Science**

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

## Religion

- RELI 3441 Creating Judaism
- RELI 3442 The Christian Tradition
- RELI 3443 Islamic Worlds
- Sociology and Anthropology
- ANTH 3358 The Anthropology of International Relations

## Science Area

- BIOL 2306 Infectious Diseases

## Statistics Area

- ANTH 3360 Research Methods: Applied Social Statistics (also listed as SOCI 3360)
- MATH 1320 Statistical Methods
- PSYC 2401 Statistics and Methods I
- SOCI 3360 Research Methods: Applied Social Statistics (also listed as ANTH 3360)

# Mexico, The Americas, and Spain Program

(Professors Arturo Madrid and Aaron Navarro)

**Requirements:** Eighteen hours, which may be taken abroad, spread across the following areas:

### Overview (at least 6 hours)

- GNED 3325 The U.S. Latino Experience
- HIST 1340 Latin American Cultural Traditions
- SPAN 3311 Spanish Civilization
- SPAN 3312 Latin American Civilization

### Cultural Expression (at least 3 hours)

- ANTH 3357 Pre-Columbian Art of Mesoamerica (also listed as ARTH 3335)
- ARTH 3355 Pre-Columbian Art of Mesoamerica (also listed as ANTH 3357)
- ARTH 1412 Art and Architecture of Latin America since the 16th Century
- ARTH 3345 Spanish Colonial Art and Architecture in Mexico
- ARTH 3354 Mexico City



- ARTH 3361 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 Haciendo Negocios en Latinoamérica (also listed as BUSI 3340)
- INTL 3346 The Spanish Economy in the European Union
- INTL 3372 Internship in Spain
- PLSI 3333 Latin American Politics
- SOCI 3349 Globalization and Social Change (also listed as ANTH 3349)
- SPAN 4350 History of the Spanish Language

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

- ANTH 3327 Race in America (also listed as SOCI 3327)
- ANTH 3343 Relaciones Fronterizas México-Estados Unidos (also listed as INTL 3343 and SOCI 3343)
- ANTH 3367 South American Indigenous Peoples: Conquest and Development

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

- HIST 1350 Medieval Islamic History, 570-1517 or HIST 1351 The Modern Middle East
- PLSI 3334 State, Society and Change in the Middle East or Spain



- 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)

Student assistance available at [www.trinity.edu](http://www.trinity.edu)

- 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 2301 World Literature and the Environment

##### General Education

- GNED 1306 Energy and Society

#### Geosciences

- GEOS 1304 Environmental Geology

#### Physics and Astronomy

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

#### Sociology and Anthropology

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

#### Urban Studies

- URBS 3347 Urban Systems





Students chosen for the Trinity delegation to national Model United Nations competitions are required to register for this one-hour course. The course involves participation in parliamentary training sessions, learning about the country being represented by the Trinity delegation, and research and writing on the topics before the various Model United Nations committees. May be repeated for credit in successive years. Must be taken Pass/Fail.

#### LAC-2101 Biblical Hebrew

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

#### LAC-3101 La economia mexicana (The Mexican Economy)

An examination of the most significant contemporary issues affecting the economic life of Mexico. The international, agricultural, financial, communications, and labor sectors of the economy are analyzed in depth, and their relationship to the macroeconomic performance of the country is studied. Special attention is given to the political situation of the country and its impact on the economy. This course will be conducted entirely in Spanish. (Also listed as ECON 3141.) Prerequisites: SPAN 2302, ECON 1311 and 1312 or 3318, or consent of the instructor.

#### 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-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-3114 Zhongguo Gudai Sixiang (Classical Chinese Thought)

A study of traditional Chinese thought as manifested in the language of selected classical texts of history, philosophy, poetry, and religion. All readings will be conducted in classical Chinese. No prior knowledge of Chinese is required. Co-requisite: Simultaneous enrollment in a Chinese civilization, literature, history, philosophy, political science, or religion course, or consent of instructor.

#### LAC-3117 Teorii I iskusstvo russkogo avangarda (Theories and Art of the Russian Avant-Garde)

A companion course to ARTH 3362, which is a survey of the main artistic movements and artists in Russia from 1880-1930: Symbolism, Primitivism, Futurism, Suprematism, Constructivism. The course will pay special attention to the works of Vrubel, Goncharova, Malevich, Kandinsky, and Filonov through slides, a series of short Russian-language readings, and weekly discussions. The course will be conducted entirely in Russian. INTL 3117 is

## LAC-3118 Historia, resistencia, y rebelion en la musica chicana (History, Resistance, and Rebellion in Chicana/o Music)

A study of important historical events and issues that have shaped Chicana/o music and the cultural and social exploitation of Chicanas and Chicanos through samples of the music produced by them throughout the 20th century. The course will analyze both musical forms and lyrics. The musical genres will include corridos (ballads), Pachuca and Pachuco (zootsuiter) music, Rock 'n' Roll, Civil Rights movement music, Chicana/o Punk, Mariachi, Tejano, and Conjunto music among other styles. This course will be conducted entirely in Spanish. Prerequisite: LAC 101. The musical g

society, literature, arts, and culture of the island nation. The course draws on academic and literary texts in Spanish, as well as on slides, audiovisual recordings, food, and other resources to explore the various themes. This course will be entirely conducted in Spanish. Prerequisite: SPAN 2302, the equivalent, or consent of instructor

#### LAC-3134 Culture, Identity, and Language in Contemporary Brazil

In this course we will critically examine iconic representations of Brazilian identity, including choro, samba, Afro-Raggae, and Cinema Novo, all of which have served as significant forms of self-expression within the broader framework of Brazilian culture. Through this examination, students will develop a deeper appreciation of Brazilian culture that goes beyond the stereotypical images of Brazil as the tropical land of Carnival and the country of soccer. Although the medium of instruction of this class is Spanish, students will develop reading skills in Brazilian Portuguese using their knowledge of Spanish.

#### LAC-3301 Paris: the Biography of a City (Paris: La

An introduction to the education of second language learners in the context of bilingual education and English as a second language (ESL) programs. This course includes field experience in working with bilingual and ESL populations in an educational setting. (Also listed as EDUC 3344)

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

### LAC-3372 Practica profesional en Espana (Internship in Spain)

A supervised summer internship in Spain. Students enrolled in INTL 3372 will serve as interns with various firms,

# 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

Michael Ward, Ph.D.

- 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 Rhetorical Analysis (also listed as ENGL 3352)

## **Supporting Curriculum**

### **Classical Studies**

CLAS 3371 Introduction to Romance Linguistics (also listed as FREN 3371, ITAL 3371,

- CSCI 3-94 Seminar: Provability

## 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



# Mathematics

## Faculty

[Eduardo Cabral Balreira, Ph.D.](#) , Associate Professor

[Ryan C. Daileda, Ph.D.](#) , Associate Professor

[Saber N. Elaydi, Ph.D.](#) , Professor

[Julio Roberto Hasfura-Buenaga, Ph.D.](#) , Associate Professor

[Eddy Kwessi, Ph.D.](#) , Assistant Professor

[Natasha Macura, Ph.D.](#) , Associate Professor

[Brian K. Miceli, Ph.D.](#) , Associate Professor; Acting Chair

[Hoa Nguyen, Ph.D.](#) , Assistant Professor

[Peter Olofsson, Ph.D.](#) , Professor

[Diane G. Saphire, Ph.D.](#) , Associate Professor; Associate Vice President for Information Resources; Director, Institutional Research

## Overview

## The Honors Program

### Objectives

The Mathematics Department offers an Honors Program to provide students the opportunity to develop their



PROVISIONAL ACCEPTANCE may be granted if the Department of Mathematics is convinced that the applicant has promise of graduating with a degree in mathematics. In cases of provisional acceptance, courses and performance standards will be specified so that the applicant may be granted full acceptance.

## The Minor

A mathematics minor must complete MATH 1307 or 1311, 1308 or 1312, 2321, and nine (9) hours of upper division mathematics.

## The Honors Program

The Honors Program requires a minimum of nine credit hours arranged over two or three semesters. Six of these hours must be taken in the senior year and devoted to work on the thesis. The remaining three hours must be taken in an upper division course completed by the end of the junior year in the area in which the thesis is to be written. The specific upper division course will be chosen with the consent of the adviser.

A final presentation of the completed thesis will be made to the department during the second semester of the student's senior year. After the presentation and a reading of the final thesis, the department will determine its acceptability for departmental honors. The accepted thesis will be sent to the Office of Academic Affairs for binding. The student will pay the cost of the binding. The completed thesis will be bound and placed in the Trinity University library.

For further information, contact the department at (210) 999-8205.

## Courses

MATH-1190 Putnam Exam Seminar

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 1308 or MATH 1312 may register for this course.

## MATH-1307 Calculus A

### MATH-2321 Calculus III

The study of partial differentiation, multiple integrals, and vector calculus. Prerequisite: MATH 1312 or 1308.

### 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, MATH 1311 or 1307

### MATH-3-90 Reading and Conference

Course will vary in credit according to scope of work included. Prerequisite: Consent of instructor.

### 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



### MATH-3338 Mathematical Modeling

Formulation, analysis, and interpretation of models arising in the life, physical, or social sciences. The actual source for the models will depend upon the interests of the instructor. Mathematical topics will include one or more of the following areas: linear algebra, differential equations, difference equations, numerical analysis, statistics, stochastic processes, and optimization. (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

A study of the theory and problem-solving techniques of algebraic and enumerative combinatorics. Topics include basic enumeration and the combinatorial proofs, the binomial theorem, recurrence relations, generating functions, and inclusion-exclusion. Fall, alternate years. Prerequisite: MATH 3326 or consent of instructor.

### MATH-3351 Numerical Analysis I

Methods of solution of algebraic and transcendental equations, simultaneous linear algebraic equations, numerical integration and differentiation, initial and boundary value problems of ordinary differential equations. (Also listed as CSCI 3351.) Spring. Prerequisite: CSCI 1321, MATH 3316

### MATH-3352 Numerical Analysis II

Direct and iterative solution of linear systems of equations, approximation theory, eigenvalues and eigenvectors, solution of non-linear systems of equations, boundary value problems for ordinary differential equations, numerical solutions of partial differential equations. Irregular. Prerequisite: MATH 3351.

### MATH-3355 Non-Euclidean Geometry

Topics include the fifth postulate of Euclid, hyperbolic geometry of Lobachevsky, elliptic geometry of Riemann. Spring, alternate years. Prerequisite: MATH 3326 or Consent of Instructor.

### MATH-3357 Partial Differential Equations

The heat, wave and Laplace equations and boundary value problems, the method of separation of variables, special functions, orthogonal expansion, Sturm-Liouville theory, the Fourier and Laplace transform methods. Additional topics may include Green's functions, Poisson's integral formula for the disk and variational calculus if time permits. Prerequisites: MATH 2321 and 3316 or 3366.

### MATH-3359 Difference Equations

Dynamics of first order difference equations, difference equations of higher order, stability analysis, methods of Z-

transform. Offered infrequently. 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-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-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-4324 Linear Algebra II

Topics beyond MATH 3323, which may include canonical forms, spectral decompositions, analysis of linear systems, and matrix norms, Fall, alternate years. Prerequisite: MATH 3323 or consent of instructor

### MATH-4336 Stochastic Processes

An Introduction to the theory and applications of stochastic processes. Topics may include processes, random walks, Markov chains in discrete and continuous time, branching processes, queuing systems, and Brownian motion. Spring, alternate years. Prerequisite: Math 3320 or 3334 or consent of instructor.

### MATH-4342 Number Theory II

Topics beyond MATH 3341, which may include the theory of fractional ideals in number fields, arithmetic functions and Dirichlet series, distribution of primes, and the prime number theorem. Spring, alternate years. Prerequisite: MATH 3341 and MATH 3360 or 3362, or consent of instructor.

### MATH-4344 Combinatorics II

Topics beyond MATH 3343, which may include Polya counting, partition theory, special functions, the R-S-K













- RELI 3454 The Letters of Paul
- RUSS 3303 Russian Culture
- RUSS 3305 Introduction to Russian Literature I
- SPAN 3311 Spanish Civilization
- SPAN 3331 Introduction to Spanish Literature
- SPAN 4301 Spanish Phonetics and Phonology
- SPAN 4341 Literature of Colonial Spanish America
- THTR 3333 History of Theatre and Drama

## Courses

### MDRS-2301 Topics in Medieval Studies

Selected topics on some aspect of Medieval Studies, focusing on the intersections of texts, visual art, history, politics, philosophy, religion, and culture. May be repeated when topics vary.

### MDRS-2302 Topics in Renaissance Studies

Selected topics on some aspect of Renaissance and Early Modern Studies, focusing on the intersections of texts, visual art, history, politics, philosophy, religion, and culture. May be repeated when topics vary.

### MDRS-2303 Topics in Medieval and Renaissance Studies

Selected topics integrating aspects of Medieval and Renaissance/Early Modern Studies, focusing on the intersections of texts, visual art, history, politics, philosophy, religion, and culture. May be repeated when topics vary.







# Modern Languages and Literatures

## Faculty

[Dania Abreu-Torres, Ph.D.](#) , Assistant Professor, Spanish

[Danny J. Anderson](#) , Professor, Spanish; President of the University

[Carlos X. Ardavin Trabanco, Ph.D.](#) , Associate Professor, Spanish

[Alan Astro, Ph.D.](#) , Professor, French

[Rosana Blanco-Cano, Ph.D.](#) , Associate Professor, Spanish

[Nina C. Ekstein, Ph.D.](#) , Professor, French

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

[Jinli He, Ph.D.](#) , Associate Professor, Chinese

[Bruce T. Holl, Ph.D.](#) , Associate Professor, Russian; Chair

[Nanette C. Le Coat, Ph.D.](#) , Associate Professor, French

[Arturo Madrid, Ph.D.](#) , Norine R. and T. Frank Murchison Distinguished Professor of the Humanities, Spanish

[Pablo A. Martinez, Ph.D.](#) , Associate Professor, Spanish

[Debra Ochoa, Ph.D.](#) , Associate Professor, Spanish

[Bladimir Ruiz, Ph.D.](#) , Associate Professor, Spanish

[Matthew Stroud, Ph.D.](#) , Professor, Spanish

[Curtis Swope, Ph.D.](#) , Assistant Professor, German

[Heather Sullivan, Ph.D.](#) , Professor, German

[Rita E. Urquijo-Ruiz, Ph.D.](#) , Associate Professor, Spanish

[Michael Ward, Ph.D.](#) , Spanish

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

## Overview

The Department of Modern Languages and Literatures offers courses leading to the degree of Bachelor of Arts with a major in Chinese, French, German, Russian, or Spanish. Programs are also available in French, German, and Spanish as teaching fields under the interdepartmental major for teachers in secondary schools. Arabic and Italian are offered on the elementary and intermediate levels. Courses in Greek and Latin are the responsibility of the Department of Classical Studies.

## Requirements

# The Major

In order to be granted full acceptance for admission to a major in Chinese, French, German, Russian, or Spanish, a student must have completed the 3301 course in that language with a grade of C or better.

## Chinese

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

### I. Departmental requirements:

A. Completion of 21 credit hours of upper division taught in Chinese, including:

1. CHIN 4351
2. CHIN 4360

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.
3. 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

## 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 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)

elements of the Pathways curriculum and at least 124 credit hours.

## Russian

### I. Departmental requirements:

A. Completion of 21 credit hours, of which no more than 3 may be lower division (2302).

Upper Division hours will include:

1. RUSS 3301
2. RUSS 3305

The RUSS 3305 requirement will be waived for students who have taken ML&L 3340.

### B. Completion of one of the following additional requirements:

1. Nine additional credit hours of upper division courses in Russian.  
Students have the option of substituting up to 9 credit hours from the following courses: ARTH 3362; ECON 3327; HIST 3311; PLSI 3335; OR
2. 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.

# Spanish

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

## I. Departmental requirements:

A. Completion of 21 hours, of which no more than 3 may be lower division (2302) and no more than 3 may be taken as Internship. Upper division hours will include:

1. SPAN 3301
2. SPAN 3330 or 3331
3. SPAN 3332

B. Completion of one of the following additional requirements:

1. Nine additional credit hours of upper division courses in Spanish (students have the option of substituting up to three hours of Spanish across the Curriculum courses); OR
2. The lower division courses, or the equivalent, and at least three 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.

## The Minor

The requirements for a minor in Chinese, French, German, Italian, Japanese, Korean, Latin, or Russian are as follows: 4 with 8 courses, or the equivalent; OR A. C6 ; OR

# Transfer Credit

In conjunction with the Registrar's Office, transfer credit for language courses must be evaluated and approved by the language section in addition to the chair of the department. Such evaluation may include, but need not be limited to, the syllabus for the course and the test required of students showing competency in the language.

## The Honors Program

### I. University requirements

### II. Departmental requirements:

The Department of Modern Languages and Literatures offers an Honors Program in Chinese, French, German, Russian, and Spanish. The requirements for Honors in Modern Languages and Literatures are the same as the university requirements. A full description of the program is available in the departmental office.

## Self-Instructional Language Program

The Department of Modern Languages and Literatures offers self-instructional courses in critical languages of global and economic importance. Although students will meet with a native-speaking tutor for 2 hours per week, the self-instructional nature of these courses demands that students have a demonstrated ability to learn a foreign language and be highly motivated and disciplined. Registration is by consent of the Director only. The courses for which students may enroll are the following:

- SILP 1301 Beginning Self-Instructional Language I
- SILP 1302 Beginning Self-Instructional Language II
- SILP 2301 Intermediate Self-Instructional Language I
- SILP 2302 Intermediate Self-Instructional Language II

Upon registration, the name of the course to appear on the transcript will be changed to reflect the language studied, for example:

- SILP 1301 Beginning Japanese I

None of these courses may count toward fulfillment of the university language requirement.

# Modern Languages and Literatures

Taught in English and works read are in English.



A lower division course in conversational Chinese for students enrolled in the Trinity-sponsored faculty-led study abroad program. (Offered every Spring)

#### CHIN-1401 Elementary Chinese I

Modern Standard Chinese (Mandarin). 4 class hours a week. (Not open to native speakers of Mandarin.)

#### 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-2311 Chinese Civilization

A topical approach to the study of both traditional and modern Chinese thought systems, with readings drawn mainly from original sources in translation. Course taught in English.

#### CHIN-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-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-3300 Advanced Placement Credit in Chinese

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

#### 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-3330 Global Business Culture

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

### CHIN-3343 Chinese Foreign Policy





### CHIN-4351 Classical Chinese

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

### CHIN-4362 International Branding

Strategic and critical examination of how brands, including corporate and product brands, are managed in a global environment. Prerequisite: CHIN 2402 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.)

### 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-4-90 Reading and Conference

Individual work under faculty supervision in areas not covered by other courses. Prerequisites: 6 upper division hours in French and approval of department chair.

### FREN-4-91 Selected Topics

Special study in fields not covered by other courses. Variations in credit according to work performed, from 1-6 hours. Prerequisites: 6 upper division hours in French

### FREN-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 19TH-CENTURY Fiction

An intensive study of works of fiction by Balzac, Constant, Flaubert and Merimee. (Offered occasionally).

### FREN-4309 Survey to Francophone Literature

Introduction to Francophone Literature explores the literary works of French-speaking writers from three parts of the world: the Caribbean, Sub-Saharan Africa, and North Africa (Algeria, Morocco, and Tunisia). It also considers the critical, social, and cultural questions posed by a literary tradition that was born in the Colonial and Post-

### GERM-1402 Elementary German II

4 class hours a week. Prerequisite: GERM 1401 or the equivalent.

### GERM-2301 Intermediate German I

Prerequisite: GERM 1402 or the equivalent.

### GERM-2302 Intermediate German II

Prerequisite: GERM 2301 or the equivalent.

### 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



### GERM-4301 Genre Studies in German Literature

The study of a major genre such as the novel, drama, poetry, or the short story. May be taken more than once, provided topics vary. Prerequisite: GERM 3301 or the equivalent

### GERM-4310 Seminar in German Literature

The in-depth study of a single theme, movement, or author in German literature. May be taken more than once, provided topics vary. Prerequisite: GERM 3301 or the equivalent.

### GERM-4398 Honors Thesis

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

### GERM-4399 Honors Thesis

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

### GRST-1314 Art and Architecture of Medieval Europe

This course examines the art and architecture of the Middle Ages in Europe, from the earliest Christian imagery of the fourth century to late Gothic court art, produced around 1400. The geographical range extends from the northern fringes of the British Isles to the borders of the Byzantine world, and a wide 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 ARTH 1314) Common Curriculum: This course will only count towards Greco-Roman, Jewish, and Christian Traditions through the Early Modern Period

### GRST-2332 Play Structure and Analysis

This course will introduce students to multiple theatrical models and methods used to understand dramatic structure and to analyze specific plays. This course seeks answer the question: How can we discover the ways in which plays work? (Also listed as THTR 2332)

### 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-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-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

German and Austrian writers from 1890 to 1910 plumbed the depths of the human psyche and chronicled social conditions from working class neighborhoods to boarding schools for the elite. They saw their culture as profoundly decayed and sought to reveal how violence and lust seethed just below society's civilized surface. This course explores how key German-language authors during this period used different literary approaches, from realism to naturalism to expressionism, to address the burning psychological and political questions of their time from the role of sexual desire in the formation of self to the possibility (or threat) of working-class revolution.

### GRST-3321 Northern Renaissance Art in the Fifteenth Century

The course examines the making and meaning of the visual arts in France, Germany, and the Netherlands, from c. 1400 to c. 1500. Objects in various media are considered in relation to their original contexts, from the lavish splendor of the courts to the burro Th original contexts, from3 du erlithinema, he formama, a mdiffe, s

### GRST-3338 History of the Holocaust

This course explores the origins, implementation, and legacy of the Nazi murder of six million Jews in Europe during World War II. Special attention will be paid to the motivations and actions of the perpetrators, the perspectives of the victims, and historiographical debates concerning the genocide. (Also listed as HIST 3338)

### GRST-3341 Music History I: Ancient Greece to Baroque

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

### GRST-3342 Music History II: Beethoven to the Present

A survey of important figures and developments in Western art music from the late Classical era through the present, beginning with the music of the late eighteenth century, continuing with Beethoven, Berlioz, Schubert, and other nineteenth century composers, and concluding with a sustained overview of the modern era from Mahler to Ligeti. Although designed as a continuation of Music History I, this course may be taken independently. (Also listed as MUSC 3342) Prerequisite: MUSC 1204 or consent of instructor.

### GRST-3343 Mozart

### 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-3460 German Idealism

A study of important thinkers and movements at the beginning of the 19th century. We will focus initially on Kant, and investigate how German Idealism and Romanticism developed in the aftermath of Kant's critical philosophy. After an extended treatment of Hegel, we will look at the young Hegelians and Marx. The course will focus on issues in metaphysics, epistemology, the philosophy of history and the problem of subjectivity. (Also listed as PHIL 3423.) (Offered every other year). Prerequisite: Any three-hour course in philosophy or consent of instructor.

### GRST-3461 Nietzsche and German Philosophy

A study of the important thinkers and movements at the end of the 19th century. We will focus initially on Kant before seeing how Schopenhauer and finally Nietzsche developed on the basis of the Kantian philosophy. After an extended treatment of Nietzsche, we will look at how Freud and psychoanalysis grew out of this tradition. The course will focus on issues in epistemology, the philosophy of art, the philosophy of nature, and the development of the notion of the unconscious. (Also listed as PHIL 3426) Prerequisite: Any three hour course in Philosophy or consent of instructor

### ITAL-1401 Elementary Italian I

4 class hours a week.

### ITAL-1402 Elementary Italian II

4 class hours a week. Prerequisite: ITAL 1401 or equivalent.

### ITAL-2301 Intermediate Italian

Prerequisite: ITAL 1402 or the equivalent, or consent of instructor.

### ITAL-2302 Reading and Composition

Prerequisite: ITAL 2301 or the equivalent, or consent of instructor.

### ITAL-3371 Introduction to Romance Linguistics

A study of the science of language as it applies to those tongues having their origin in spoken Latin, principally French, Italian, Portuguese, Rumanian, and Spanish. Attention will be given both to historical developments and to the current situations of such languages. (Also listed as CLAS 3371, FREN 3371, and SPAN 3371). Prerequisite: Two years or the equivalent of Latin, Ancient Greek, or a Romance language.

### ITAL-4-90 Selected Topics

Special study in fields not covered by other courses. Variations in credit according to work performed, from 1-6 hours. Prerequisites: ITAL 2302.

### 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 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 FILM 2301, ARTH 2301, COMM 2301).

### ML&L-3-91 Selected Topics

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

### ML&L-3310 French Literature in Translation



## RUSS-2302 Intermediate Russian II

Prerequisite: RUSS 2301 or the equivalent.

## 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).

## 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-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-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-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.

### RUSS-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.

### SILP-1301 Beg Self Instruction Lang I

Self-instructional courses are just that: self- taught. Students meet with native-speaker tutors for 2 hours per week and are examined by an off- campus professor of the target language at the end of the semester.

### SILP-1302 Beginning Self-Instruction Language II

Self-instructional course.

### SILP-2301 Intermediate Self-Instructional Language I

Self-instructional courses are just that: self- taught. Students meet with native-speaker tutors for two hours per week and are examined by an off- campus professor of the target language at the end of the semester.

### SILP-2302 Intermediate Self-Instructional Language II

The Department of Modern Languages and Literatures offers self-instructional courses in critical languages of global and economic importance. Although students will meet with a native- speaking tutor for 2 hours per week, the self- instructional nature of these courses demands that students have a demonstrated ability to learn a foreign language and be highly motivated and disciplined. Registration is by consent of the Director only.

### SPAN-1403 Review of Elementary Spanish

A course designed for students who have had two to three years of high school Spanish but are not qualified for SPAN 2301. A review of the material covered normally in SPAN 1600. SPAN 1600 and 1403 cannot both be taken for credit. Prerequisite: Two to three years of high school Spanish, or the equivalent.

### SPAN-1600 Intensive Beginning Spanish

6 class hours a week

### SPAN-2301 Intermediate Spanish I

Prerequisite: SPAN 1600, or 1403 or the equivalent.



### SPAN-2302 Intermediate Spanish II

Prerequisite: Span 2301 or the equivalent.

### SPAN-3-91 Special Topics

Special study in fields not covered by other courses. Variations in credit according to work performed, from 1-6 hours. Maybe repeated, provided that topics vary. Prerequisite: SPAN 2302 or the equivalent, or consent of

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### SPAN-3301 Advanced Grammar

Intensive review of Spanish grammar, practical application through written and oral exercises, and through reading of appropriate text materials. Prerequisite: SPAN 2302 or the equivalent.

### SPAN-3302 Advanced Composition and Conversation

Emphasis on study of style and vocabulary. Written and oral reports in Spanish. Prerequisite: SPAN 2302 or the equivalent. tin valent, or consent of

### 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 equivalent.

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### SPAN-4-90 Reading and Conference

Individual work under faculty supervision in areas not covered by other courses. Prerequisites: 6 upper division hours in Spanish and approval of Department Chair.

### SPAN-4-91 Special Topics

Special study in fields not covered by other courses. Variations in credit according to work performed, from 1-6 hours. Prerequisite: 6 upper division hours in Spanish.

### SPAN-4-97 Internship

Supervised off-campus experience in Spanish appropriate to the students' abilities and interests. Includes periodic on-campus meetings with instructor to integrate internship experience with study of Spanish language and culture. Up to 3 hours credit. Pass/Fail. Prerequisites: Approval of instructor and major advisor.

### SPAN-4001 Senior Experience

The Senior Experience requirement for the Spanish major may be satisfied by submitting during the senior year a written paper or project based on one of the following: (1) An upper division course taken during the senior year. The paper or project will be in addition to the general requirements for the course, and will be approved by and submitted to the professor of the course. (2) An approved study abroad experience in a country in which the language of the major is spoken. The paper or project must be proposed before the student goes abroad, and approved by and submitted to the major advisor. This is a no-credit, pass/fail course. Prerequisite: Senior standing as a Spanish major.

### 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

### 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.

### SPAN-4350 History of the Spanish Language

An examination of the development of modern Spanish out of spoken Latin. Emphasis will be placed both on external developments and their linguistic consequences, and on internal change affecting the tongue. Prerequisite: SPAN 3301 or the equivalent, or consent of instructor.

### SPAN-4351 Transnational Mexican Popular Culture

A study of important Mexican popular cultural productions (literature, film, music, television programs) from the 1930's (Post Revolutionary period) to the present through a transnational approach. This course is taught in Spanish. Prerequisites: SPAN 3332 or equivalent, or consent of instructor.

### SPAN-4398 Honors Thesis

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

### SPAN-4399 Honors Thesis

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

# Music

## Faculty

[Brian Bondari, D.M.A.](#) , Assistant 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

[Linda McNeil, D.M.A.](#) , Associate Professor

[Kimberlyn Montford, Ph.D.](#) , Associate Professor

[Diane Persellin, Ed.D.](#) , Professor

[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 reviewed by his/her adviser and approved by the Department of Music and the registrar by the end of the sophomore year. At this time, the student must make formal application to continue studies toward a degree in music. The sophomore year performance jury will determine upper division status and eligibility for the Bachelor of Music degree.

Requirements for All-Level Music Teacher Certification include the Bachelor of Music degree in Choral, Elementary, or Instrumental Music, and a summer and fifth year internship program, culminating in the Master of Arts in Teaching degree. Music Education students must successfully complete proficiency examinations in keyboard, vocal, and secondary instruments before being assigned to internships.



# The Degree - Bachelor of Music, Major in Performance





including EDUC 5339, 5349, 5350, 5351, 5646, 5647, 5948.

## IV. University Requirements

Completion of all other required elements of the Pathways curriculum.

## Minor in Music

for music majors/minors, while MUSI 2102 indicates a second year level, one credit hour individual instruction course in voice for non-majors/non-minors.

Voice	00-03	French Horn

### 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-1121 Beginning Class Voice I

A study of the fundamentals of vocal production with lessons including breath control, posture, diction, tonal concepts and phrasing. In addition, aspects of music notation and reading will be addressed. Techniques covered in class are applied to the performance of basic solos and vocal functions in choral situations. This course does not satisfy the Class Voice requirement as stated in the Instrumental Music Education (pre-certification) curriculum.

### MUSC-1122 Beginning Class Voice II

This course is a continuation of MUSC 1121, with a particular emphasis on aspects of vocal production related to the preparation and performance of ensemble voices in an educational setting. This course satisfies the Class Voice requirement as stated in the Instructional Music Education (pre-certification) curriculum. Prerequisite: MUSC 1121, or consent of instructor.

### MUSC-1123 Beginning Class Piano I

A study of the rudiments of piano performance designed for elementary education majors and other students who have had no previous piano study. Competency in reading music, ensemble playing, and solo repertory are stressed.

### MUSC-1124 Beginning Class Piano II

A continuation of the studies initiated in 1123 along with the introduction of harmonization of short melodies and transpositions. Spring. Prerequisite: MUSC 1123 or consent of instructor.

### MUSC-1125 Beginning Class Guitar I

A study of the rudiments of guitar performance designed for education majors and other students who have no previous guitar study. Competency in reading music, ensemble playing, and solo repertory is stressed.

### MUSC-1126 Beginning Class Guitar II

A continuation of the studies initiated in 1125. The rudiments of reading, ensemble playing, and solo repertory in guitar performance are presented in greater depth. Prerequisite: MUSC 1125 or consent of instructor.

### MUSC-1161 Introduction to Music in American Schools

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### MUSC-2113 Keyboard Skills III

A continuation of MUSC 1114. This course will develop basic skills in playing the keyboard that reinforce the topics presented in MUSC 2203. A variety of exercises will cover scales, chords, progressions, and score reading.

Corequisites: MUSC 2203 and 2103 or consent of instructor. Prerequisites: MUSC 1114 or consent of instructor

### MUSC-2114 Keyboard Skills IV

A continuation of MUSC 2113. This course will develop basic skills in playing the keyboard that reinforce the topics presented in MUSC 2204. A variety of exercises will cover scales, chords, progressions, and score reading.

Corequisites: MUSC 2204 and 2104 or consent of instructor. Prerequisites: MUSC 2113 or consent of instructor

### MUSC-2161 Instrumental Fundamentals - Brass

A study of methods of teaching brass instruments. Through direct hands-on playing of instruments and a study of applicable method books, students will develop a fundamental knowledge and basic technique of each instrument in the brass section.

### MUSC-2162 Instrumental Fundamentals-Percussion

A study of methods of teaching percussion instruments. Through direct hands-on playing of instruments and a study of applicable method books, students will develop a fundamental knowledge and basic technique of each instrument in the percussion section.

### MUSC-2163 Instrumental Fundamentals-Strings

A study of methods of teaching string instruments. Through direct hands-on playing of instruments and a study of applicable method books, students will develop a fundamental knowledge and basic technique of each instrument in the string section.

### MUSC-2164 Instrumental Fundamentals-Woodwinds

A study of methods of teaching woodwind instruments. Through direct hands-on playing of instruments and a study of applicable method books, students will develop a fundamental knowledge and basic technique of each instrument in the woodwind section.

consent of instructor

## MUSC-2221 Repertoire Development

The selection, study, and performance of music appropriate to the student's voice or instrument in preparation for





### 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-3341 Music History I: Ancient Greece to Baroque

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

### MUSC-3342 Music History II: Beethoven to the Present

A survey of important figures and developments in Western art music from the late Classical era through the present, beginning with the music of the late eighteenth century, continuing with Beethoven, Berlioz, Schubert, and other nineteenth-century composers, and concluding with a sustained overview of the modern era from Mahler to Ligeti. Although designed as a continuation of Music History I, this course may be taken independently. (also listed as GRST 3342) Prerequisite: MUSC 1204 or consent of instructor.

### MUSC-3344 Twentieth-Century Music

A stylistic study of major composers and compositional trends in music of the Twentieth Century. Prerequisite: MUSC 1340 or consent of instructor

### MUSC-3346 Survey of Symphonic Literature

Study of symphonic literature of 18th-20th centuries with reference to style, structure and instrumental techniques involved in representative compositions of major composers. Prerequisite: Consent of instructor

### MUSC-3347 The Art Song

A historical survey of the development of the Art Song by nationality as well as stylistic periods from the 17th century to the present. Ability to read music helpful. Prerequisite: MUSC 1301, 1340 or consent of instructor.

### MUSC-3349 Music and Religion

An examination of the role of music in the worship practices of the major denominations of Judaism, Islam, and Christianity. Particular emphasis will be given to the historical development within each group of liturgical forms, important religious festivals, liturgical books and materials, and doctrinal issues related to gender, propriety of musical styles and practices, texts, and the use of instruments. The contributions of leading composers will be discussed. Prerequisite: MUSC 1301 or MUSC 1203, or consent of instructor.

### MUSC-3350 Mozart

Two centuries after his death, Wolfgang Amadeus Mozart remains one of the most compelling figures in the music history due to the extraordinary quality of the music he wrote and to the numerous legends which swirled about him from childhood onward. This course is a critical examination of Mozart's life and works. Using biographies, Mozart's own letters, and evidence in the music itself, we will explore how the image of a divinely-inspired child genius arose during his lifetime, and how that image continued to shape his reputation for later generations of listeners, including our own. (Also listed as GRST 3343) Prerequisite: MUSC 1204 or consent of instructor

### MUSC-3398 Honors Readings

Independent study in selected areas in preparation for Honors Thesis. May be taken for up to three hours of credit.

### MUSC-3458 Philosophy of Music

In this course we will investigate several philosophical issues raised by music, from the question of what exactly music is, through the nature of various musical objects (works, performances, recordings), to how we should approach music, and what its value is. Throughout we will question how far the theories we discuss can be applied beyond their (typical) application to Western classical music. Students will be expected to bring their experience-as composers, performers, and listeners- to bear on the issues we discuss. Also listed as PHIL 3458. (Offered every other year). Prerequisite: Any three hour course in Philosophy or MUSC 1301 or MUSC 1203 or consent of instructor

### MUSC-4-11 Composition

Guidance in solution of creative and practical problems attending the composition of one or more vocal,

### MUSC-4-14 Composition

Guidance in solution of creative and practical problems attending the composition of one or more vocal, instrumental, or music-dramatic works. Discussion of works in progress as related to classical principles and contemporary practices. 1 to 6 semester hours. Prerequisite: Consent of instructor.

### MUSC-4-90 Directed Studies

Individual study and research in areas not covered by other courses. 1 to 6 semester hours. Prerequisite: 6

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.

#### 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. Prerequisitesnd org . P, f

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.

#### 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

#### MUSI-XXXX Applied Music

# Neuroscience

## Faculty

[Kwan Cheng, Ph.D.](#) , Williams Endowed Professor in Interdisciplinary Physics, Physics and Astronomy

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

[Kimberley Phillips, Ph.D.](#) , Professor, Psychology; Co-Director

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

[Tyisha Williams, Ph.D.](#) , Assistant Professor, Biology

[Carol Yoder, Ph.D.](#) , Professor, Psychology

## Overview

The Bachelor of Science in Neuroscience is a multi-disciplinary program designed to provide an understanding of the nature and functioning of the nervous system from the molecular to the behavioral level. Courses, taught by faculty from the Biology, Psychology, Chemistry, and Physics and Astronomy departments, offer a broad spectrum of topics and approaches to the study of neural systems, structure and function. The major offers an opportunity for students to engage in supervised research in neuroscience and related areas and provides valuable experience to students interested in pursuing careers in the health professions or graduate study. Double majors in neuroscience and biology are not permitted.

## Guidelines for Acceptance of Majors

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

- Completion of NEUR 2310/2110, BIOL 1311/1111, CHEM 1318/1118, and PSYC 2401 with a grade of C or better.
- An overall grade point average of at least 2.0.

## Honors Program

To be eligible for graduation with Honors in Neuroscience, students must earn a grade point average of at least 3.33 in all courses taken prior to the semester before graduation, a grade point average in neuroscience courses (core and supporting) of at least 3.50, and A in BIOL 4398 and 4399 or PSYC 4395 and 4396 (thesis research in Biology or Psychology).

To apply for graduation with Honors in Neuroscience, students should address a written request for consideration to the Faculty Advisory Committee. The request must be received no later than the first full week of the student's



final semester before graduation. The decision to confer or not to confer Honors will be made by the 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.

## Requirements

### The Major

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

#### I. Specific degree requirements (52-57 credit hours)

##### **Core curriculum in neuroscience (8 hours):**

- NEUR 2310 Introduction to Neuroscience
- NEUR 2110 Neuroscience Laboratory
- NEUR 3457 Neurobiology
- NEUR 4000 Neuroscience Seminar (four semesters)

##### **Supporting courses in biology (8 hours):**

- BIOL 1311 Integrative Biology I
- BIOL 1111 Introductory Biology Laboratory
- BIOL 2412 Cells, Systems, and Their Environment

##### **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

##### **Supporting courses in psychology (11 hours):**

- PSYC 1300 Principles of Psychology
- PSYC 2401 Statistics and Methods I
- PSYC 2402 Statistics and Methods II



## II. University Requirements

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

### Courses

#### 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-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-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

#### 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.

#### 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.

# New Media

## Faculty

William G. Christ, Ph.D. , Professor, Communication

Aaron Delwiche, Ph.D. , Professor, Communication; Director

Robert Huesca, Ph.D.



# 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

[Jacob Tingle, Ed.D.](#) , Associate Professor of the Practice of Business Administration

Jerheme Urban , Instructor; Coach

## Requirements

The fitness education requirement can be fulfilled by completing one of the activity courses that are labeled PHED 11xx. In addition, PHED 1301 (Concepts of Lifetime Fitness), PHED 1106 (Sport Officiating Laboratory), and THTR 1154 (Dance for Theatre) may be used to fulfill the requirement.

See the [Degree Requirements](#) section of the Courses of Study Bulletin for a full description of the requirement.

## Courses

### PHED-1101 Aerobic Dance

The use of dance steps and combinations to achieve aerobic fitness. Flexibility and muscular endurance are also included.

### PHED-1102 Aerobic Fitness

Evaluation, development and implementation of a personal fitness program with emphasis on circulatory fitness.

### PHED-1103 Weight Training

Resistive training principles and methods. Isometric, isotonic and isokinetic procedures. Individual appraisal and practice.

### PHED-1104 Weight Management and Exercise

A course designed to help each student understand the basic information relative to weight management and exercise. Based on an evaluation, each student will design and implement an exercise and nutrition program designed to lose weight.

### PHED-1105 Rape Aggression Defense

A basic self-defense course for women that provides them with the information, tactics, and skills that they can use to protect them from aggressive acts that they may encounter.

### PHED-1106 Sport Officiating Laboratory

This laboratory is designed to provide students an opportunity for practical implementation of the practices and skills learned in SPMT 1306. (Also listed as SPMT 1106). Prerequisite: SPMT 1306 or consent of instructor.

### PHED-1111 Introduction to Swimming

Fundamentals of swimming including front crawl, back crawl, elementary backstroke, breast and side strokes. Diving, treading, floating and elementary life-saving techniques are introduced.

### PHED-1112 Fitness Swimming

Advanced swimming for cardiovascular endurance. Prerequisite: PHED 1111 or consent of instructor

### PHED-1113 Life Guard Training

A course designed to teach the skills, techniques, and responsibilities of lifeguarding which fulfills the American Red Cross Lifeguard certification requirements.

### PHED-1114 Water Polo

Fundamentals of the sport of water polo including dribbling, passing, shooting, defense, etc., will be emphasized. Participation will require intermediate to advanced swimming skills.

### PHED-1121 Badminton

Fundamentals of badminton including overhead and underhand strokes, short and long serves, around the head strokes, and service returns. Rules and strategies for singles and doubles play.

### PHED-1122 Fencing I

Fundamentals of fencing including the lunge, advance and retreat, balestra, offensive and defensive positions and strategies. Rules, officiating and scoring.

### PHED-1123 Fencing II

Review of fencing, advanced fencing techniques and introduction of epee and saber. Prerequisite: PHED 1122 or Consent of Instructor







### PHED-1145 Volleyball II

Review of basic skills of volleyball. Introduction to advanced skills and strategies.

### PHED-1146 Roller Skating I

This course is designed to teach students the basic skills they need to participate in Roller Skating as part of a healthy active lifestyle.

### PHED-1147 Roller Skating II

Introduction to advanced quad-roller skating techniques.

### PHED-1151 Ballet I

History of ballet, basic technique, vocabulary, combinations and style. Local concerts and critiques.

### PHED-1152 Ballet II

Advanced ballet technique, center combinations and variations. Comparison of major companies and performers.

### PHED-1153 Ballroom Dance I

Basic steps and variations for the following dances: fox trot, waltz, swing, polka, rhumba, cha cha, samba tango, mambo and merengue. Rhythmical analysis, music recognition and techniques of leading and following.

### PHED-1154 Ballroom Dance II

Review of ballroom dance, advanced techniques and variations for American and Latin dances.

### PHED-1155 Country/Western Dance I

Basic steps and variations for the following dances: cotton eyed joe, schottische, western two step, western waltz, Texas two step, Texas two step swing, western swing, western polka, put your little foot and 10-step polka. Rhythmical analysis and techniques of leading and following.

### PHED-1156 Country/Western Dance II

A continuation of Country/Western Dance I. Includes advanced variations and sequenced combinations.

### PHED-1157 Country/Western Dance III

Performance level of country/western dance. Audition required.

### PHED-1158 Jazz

Beginning elements of technique, vocabulary and style. History of jazz, differing styles of technique and study of performers who have influenced jazz.



coordination.

### PHED-1169 Tap Dance

This course is designed for the beginning or intermediate tap dancer to learn or perfect tap dance technique.

### PHED-1301 Concepts of Lifetime Fitness

An analysis of the basic components of physical fitness including scientific information pertinent to the development of individualized exercise programs. Course content addresses cardiovascular endurance, muscular endurance, strength, flexibility, and weight control.

### PHED-1303 Nutrition

Comprehensive study of dietary requirements, sources of various nutrients and the relationship of food to health. The role of diet and exercise in relation to obesity, weight control and degenerative disease.

### PHED-1304 Prevention, Care and Rehabilitation of Athletic Injuries

Paramedical training for the recognition, prevention and treatment of sport injuries. Includes preventive and rehabilitative exercise, emergency procedure, therapeutic modalities, and taping mechanics.

### PHED-2101 Apprentice Teaching

Provides the student with an opportunity to assist in teaching an activity course for one semester. Prerequisite: Consent of instructor. (Note: This course may be taken three times in different activities.)

### PHED-3-90 Directed Study in Physical Education

Independent study or research, or advanced selected topics in physical education that are not covered in other classes. Variations in credit according to the work performed, 1 to 3 hours. Class may be repeated for a maximum of 6 credit hour, provided the topic varies.

### PHED-3302 Motor Learning

A study of the motor and cognitive characteristics involved in learning and performing motor skills.

### PHED-3303 Dance for Children

Methods of teaching dance to children through movement experiences, locomotor and nonlocomotor skills, creative, folk, square, and aerobic dance. Opportunities are provided for observation of classes in local schools and studios.

### PHED-3304 Physiology of Exercise

The effects of exercise and the adaptation of the body to physiological stress. Includes physiology of training and conditioning, metabolism and work capacity, the cardiovascular system during exercise and metabolism and weight control.

### PHED-3306 Kinesiology

Functional application of the laws and principles of movement in sports performance and daily living. Includes material relevant to movement description, mechanics, force and leverage, translatory and rotary motion, strength measurement, and exercise analysis.

### PHED-3310 Adapted and Developmental Physical Education

Adapted Physical Education develops beginning level knowledge and skills to meet individual needs in physical education, recreation, sport, fitness, and rehabilitation settings.

### PHED-3311 Essentials of Strength Training and Conditioning

This course will focus on the basic principles underlying strength training and conditioning with particular emphasis on the physiological adaptations that take place in the body as a result of this training.

# Philosophy

## Faculty

[Curtis Brown, Ph.D.](#) , Professor

[Damian Caluori, D.Phil.](#) , Associate Professor

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

[Andrew Kania, Ph.D.](#) , Associate Professor

[Steven Luper, Ph.D.](#) , Murchison Term Professor of Philosophy; Chair

[Judith Norman, Ph.D.](#) , Professor

## Overview

The philosophy curriculum covers the traditional areas of philosophy: metaphysics, epistemology, ethics, logic, and aesthetics. With a major and five minors, Trinity's philosophy department prepares students to pursue the Ph.D. in philosophy or other advanced degrees in related disciplines.

## Bachelor of Arts in Philosophy

The major in philosophy covers traditional areas of philosophy: metaphysics, epistemology, ethics, logic, and aesthetics. It also offers courses that are not commonly found in undergraduate philosophy departments, such as Hellenistic Philosophy, Philosophy of Music, Philosophy of Culture, Non-Classical Logics, and Biomedical Ethics.

## Departmental Honors Program

To be accepted into the Department Honors Program, students must be philosophy majors who have a cumulative grade-point average of 3.33, and a grade-point average of 3.75 within the department, at the end of the Fall semester of the Junior year. Such students may request admission to the Honors Program. The request should be in writing and should be submitted to the chair of the department at the end of the Fall semester of the Junior year. The request should be accompanied by a report from the Registrar's Office, showing their grade-point averages. The members of the philosophy department will decide which students are accepted.

## Requirements

# The Major



## II. Minor in Ethics

The requirements for a minor in ethics are as follows:

- 18 hours in philosophy, of which at least 9 must be upper division.
- Three of the following courses:
  - PHIL 1350 Environmental Ethics
  - PHIL 2457 Meaning of Life
  - PHIL 3450 Metaethics
  - PHIL 3451 Social and Political Philosophy
  - PHIL 3452 Ethical Theory
  - PHIL 3453 Philosophy of Law
  - PHIL 3454 Philosophy of Gender
  - PHIL 3459 Biomedical Ethics

## III. Minor in Philosophy of Art

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

- 18 hours in philosophy, of which at least 9 must be upper division.
- Three of the following courses:
  - PHIL 2455 Aesthetics
  - PHIL 3457 Philosophy of Film
  - PHIL 3458 Philosophy of Music
  - PHIL 3460 Philosophy of Literature

## IV. Minor in Logic and the Philosophy of Cognition

The requirements for the minor in logic and the philosophy of cognition are as follows:

- 18 hours in philosophy, of which at least 9 must be upper division.
- PHIL 2340 Symbolic Logic I
- Three of the following courses:
  - PHIL 1341 Tools for Reasoning
  - PHIL 3431 Philosophy of Mind

## V. Minor in the History of Philosophy

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

- 18 hours in philosophy, of which at least 12 must be upper division.
- PHIL 3410 Classical Greek Philosophy
- PHIL 3422 Early Modern Philosophy
- At least 2 of the following courses:
  - PHIL 2425 Existentialism
  - PHIL 3411 Hellenistic Philosophy
  - PHIL 3412 Late Ancient and Medieval Philosophy
  - PHIL 3423 German Idealism
  - PHIL 3426 Nietzsche and German Philosophy
  - PHIL 3429 Continental Philosophy

## Departmental Honors Program

To receive Departmental Honors, majors in philosophy must have a grade-point average of 3.75 within the department, and a cumulative grade-point average of 3.33, at graduation. They must complete the requirements for the major. They must also complete the following courses:

1. PHIL 3439 Epistemology
2. At least one of the following:
  - PHIL 3430 Metaphysics
  - PHIL 3431 Philosophy of Mind
  - PHIL 3433 Philosophy of Language
3. At least one of the following:
  - PHIL 3450 Metaethics
  - PHIL 3451 Social and Political Philosophy
  - PHIL 3452 Ethical Theory
4. At least one of the following:
  - PHIL 3423 German Idealism
  - PHIL 3426 Nietzsche and German Philosophy
  - PHIL 3429 Continental Philosophy
5. At least one of the following (preferably all three):
  - An intermediate-level course in German, French, or Greek
  - PHIL 3440 Symbolic Logic II

- A course in mathematics at the level of MATH 1311 (Calculus I) or higher
- 6. PHIL 4396 Thesis I
- 7. PHIL 4397 Thesis II

## Courses

### 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-2455 Aesthetics

A study of issues in the philosophy of the arts, through the examination of works of art and the reading of historical and contemporary philosophers and critics. Topics to be discussed include: what makes something a work of art, the nature of artistic representation, the evaluation of works of art, and problems peculiar to such specific art forms as literature, painting, music, and film.

### PHIL-2456 Applied Ethics

An application of ethical theory to a particular moral issue. Each offering will focus on a specific issue or a set of closely related issues; topics will vary from one offering to the next. Examples of topics which may be covered include: abortion; genetic engineering; environmental justice; urban issues such as group discrimination, housing restrictions, regulation of vice, and city planning; and truth in advertising and whistle blowing.

### PHIL-2457 The Meaning of Life

A critical examination of a wide range of approaches to the question, "Does life have meaning?" Among the philosophers to be covered are Aristotle, Tolstoy, Kant, Schopenhauer, Nietzsche, Camus, Miguel de Unamuno, and Thomas Nagel.

### PHIL-3-90 Directed Studies

Individual work under faculty instruction

PHIL-3-90 a

computability theory and the foundations of mathematics. Prerequisite: PHIL 2340 or consent of instructor, or CSCI 1323.

### PHIL-3361 Theorizing Myth

A survey of theoretical approaches to myth from the eighteenth century to the present. This survey begins with the transition from renaissance belief that myth is a form of moral instruction conveyed by allegory to the romantic belief that myth is a symbolic mode of discourse offering insight into transcendental reality. We will then chart the evolution of this approach, beginning with its inspiration in Kantian metaphysics and earliest formulations by German romantics such as Schiller and proceeding on to Freud and Ricoeur. A second strand begins with Hegel's theories of "false consciousness" that would in time develop into interpretations of myth as ideology, under the influence of Marx, Adorno, and Althusser. A final strand begins with the early folklorists, the brothers Grimm, and would in time develop into functionalist approaches to myth by anthropologists such as Malinowski, Boas, and Levi-Strauss. The resulting big picture is as much an intellectual history of modernity as a history of theorizing myth. (Also listed as CLAS 3350) Prerequisites: Sophomore standing or consent of instructor.



additional three hour course in philosophy; or 9 hours in any one of the natural or social sciences

### PHIL-3433 Philosophy of Language

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

### PHIL-3439 Epistemology

A critical study of problems in the theory of knowledge, such as: the difference between knowledge and belief; the possibility of knowledge; the conditions under which a belief is rational. Prerequisites: Any three hour course in Philosophy or consent of instructor

### PHIL-3443 Nonclassical Logics

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

### 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 three hour 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 three hour 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 three hour 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 three hour course in Philosophy or consent of instructor

### PHIL-3454 Philosophy of Gender

A study of issues in the philosophy of gender, through reading the work of historical and contemporary theorists.

Topics may include the ontology of sex, gender, and sexuality; the nature and goals of feminism; gendered language; same-sex marriage; the ethics of consent; pornography; and prostitution. (Offered every other year). Prerequisite: Any course in Philosophy or WAGS 2350, 2351, or 2352, or consent of instructor

#### PHIL-3456 Marx and Marxism

In this class, students will study the ideas of Karl Marx and the impact they have had on 20th century thought. The class will have two components: the philosophy of Marx and the contemporary application of Marxist principles to various problems and disciplines. Prerequisite: Any three hour 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 three hour course in Philosophy or FILM 1301 or FILM 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 three hour 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 three hour course in Philosophy or six hours of English or consent of instructor

#### PHIL-4-90 Directed Studies

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



### 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.

### 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



# Minors

## Minor in Physics

A minor in physics consists of 18 semester hours of physics courses, at least 9 hours of which must be at the upper division level.

## Minor in Astronomy

The minor in astronomy consists of 19 semester hours of astronomy-related physics courses and their laboratories, including 7 hours from astronomy-specific courses.

## Requirements

## The Major

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), 2094 (four semesters), 2131, 2132, 3321, 3322, 3323, 3335, 4121 or 4131, and at least two of the following five courses: 3325, 3333, 4122, 4132, 4395.

B. Additional requirements: MATH 1311, 1312, 2321, 3316, CSCI 1320.

C. Completion of Wagner Senior Assessment Exam in fall of the senior year.

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

## credit hours.

The above are minimal requirements allowing students to supplement their programs with those courses best suited to fulfill their particular needs and to further their professional growth.

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

### I. Departmental requirements:

A. At least 35 credit hours in Physics, including the following or equivalent courses: PHYS 1111, 1112, 1311 (or 1309), 1312 (or 1310), 2094 (four semesters), 2131, 2132, 3321, 3322, 3323, 3325, 3333, 3335, 4121, 4122, 4131, 4132, 4395. (Honors students will take 3398, 4398, 4399 in place of 4395; these students are required to take 41 hours of Physics.)

B. At least one course from the following: PHYS 3336, 4343, or 4346.

C. MATH 1311, 1312, 2321, 3316, 3357, CSCI 1320.

D. Completion of Wagner Senior Assessment Exam in fall of the senior year.

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

The Bachelor of Science Program is designed to prepare students for graduate work in Physics. The above are minimal requirements allowing students to supplement their programs with those courses best suited to fulfill their particular needs and to further their professional growth.

## 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















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 H 3316.



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



# The Major

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

## I. Departmental requirements:

### A. Lower-division requirements:

- Nine hours of lower-division coursework

### B. c of S ou low P tmen c ti

- Satisfaction of the lower-division requirements (9 hours).
- Distribution of courses in four subfields. The student is required to take at least one course in each of the following four subfields: American Politics, Comparative Politics, International Politics, and Political Institutions, Ideology, and Policy.











privacy doctrine, and the Fourteenth Amendment's Due Process and Equal Protection Clauses. Emphasis on the development of basic legal research skills.

### PLSI-3354 Judicial Process

An examination of the functions and roles of courts in the American political and legal system. Topics include legal education/profession, group litigation strategies, methods of judicial selection, theories of judicial decision-making, and judicial philosophy.

### PLSI-3359 Special Topics in Public Law

Occasionally courses will be offered on special topics. Students are encouraged to bring to the attention of the Department Chair topics they wish to have offered. Students may take this course more than once provided the topics vary.

### PLSI-3361 Classical Political Thought

An examination of the nature of politics, justice, and civic virtue in ancient Greek, Roman, Christian, and Renaissance thought. Plato, Aristotle, Augustine, and Machiavelli.

### PLSI-3362 Modern Political Thought

An examination of freedom, authority and democracy through the writings of the great political thinkers of the modern age. Hobbes, Locke, Rousseau, Marx, Mill, and de Tocqueville, and feminist thinkers such as Mary Wollstonecraft and Simone de Beauvoir. Prerequisite: Junior standing or consent of instructor

### PLSI-3363 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 3372)

### 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 a inar 8 arl rafR u ar l b etrit7 mporaand soci



# Psychology

## Faculty

[Carolyn Becker, Ph.D.](#) , Professor

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

[William Ellison, Ph.D.](#) , Assistant Professor

[Paula Hertel, Ph.D.](#) , Murchison Term Professor of Psychology

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

[Kimberley Phillips, Ph.D.](#) , Professor

[Harry Wallace, Ph.D.](#) , Associate Professor

[Charles White, Ph.D.](#) , Professor; Vice President for Information Resources, Communications, and Marketing

[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 repres.

- Developmental Psychology: 2320, 3321, 3322.
- Social and Clinical Psychology: 2341, 3340, 3342.
- Experimental Psychology: 2312, 2330, 3311, 3431.
- At least 18 credit hours must be at the upper-division level.
- Electives sufficient to total 38 hours in psychology (other cluster courses, companion courses, and individual experiences). Students must complete at least 2 additional upper-division courses from cluster courses or companion courses as part of these elective hours.

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

Majors are encouraged to take courses from other disciplines that can serve to broaden their understanding of specific areas within psychology (e.g., mathematics, biology, computer science, and anthropology/sociology).



### PSYC-2312 Principles of Learning

Major principles of learning, derived from empirical research with a variety of organisms. Historically important and contemporary theories of learning are introduced. Topics also include application to child rearing, education, and psychotherapy and implications for issues concerning freedom and responsibility. Prerequisites: PSYC 1300

### PSYC-2320 Lifespan Development

Overview of contemporary theoretical and empirical approaches to lifespan development. Biological, social, and psychological dimensions of behavior will be examined from conception and infancy through late life.

### PSYC-2330 Fundamentals of Cognition

An introduction to the principles of cognitive psychology. Topics include the development of the cognitive paradigm, attention, higher order processes in perception, language, memory, problem-solving and human-computer interaction. Application to other domains in Psychology and disciplines will be discussed. Prerequisite: PSYC 1300

### PSYC-2341 Social Psychology

Examination of how individuals think, feel, and behave in different social contexts. Explores the basic and applied research on topics such as aggression, attitudes, attribution, prejudice, relationships, self-perception, and social influence. Prerequisite: PSYC 1300.

### PSYC-2401 Statistics and Methods I

Instruction in measurement processes, descriptive statistics, correlation and inferential reasoning and basic statistical procedures. Students become acquainted with major procedures and issues involved in the framing of psychological research. Instruction includes the use of computer-implemented statistical packages and the method and style of writing about psychological research.

### PSYC-2402 Statistics and Methods II

Instruction in additional techniques in inferential reasoning, including analysis of variance, and major nonparametric statistics. All topics are presented within the context of research design and methodology. Related statistical packages for computer-assisted analysis and further instruction in writing are included. Prerequisite: PSYC 2401 or consent of instructor.

### PSYC-3-61 Laboratory Experience in Psychology

Independent study under supervision; three hours per week per credit is assumed, on average; credit may be taken for 1 or 2 semester hours. (Offered every semester). Prerequisite: Consent of instructor.

### PSYC-3310 Neuroethics

In this course students review and discuss ethical theories and principles, and then discuss ethical dilemmas arising from several currently devoted topics relevant to the brain, cognition, and behavior. Relevant bioethical and





# Religion

## Faculty

[C. Mackenzie Brown, Ph.D.](#) , Professor

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

## Overview

The religion department offers a program of study leading to a B.A. that will prepare students for graduate study or contribute toward whatever vocational plans they may have. Many students pursue a double major in religion and another discipline to enhance opportunities for graduate study or employment.

## Bachelor of Arts in Religion

The religion curriculum provides students an opportunity to become familiar with the history and principal features of the world's major religious traditions as well as some of the significant alternatives to traditional religions.

The curriculum also provides students with the critical tools, methods, and insights to deal with religious questions, claims, and aspects of personal and social life. The major in religion draws from five major areas: The traditions, modern and contemporary, textual and literary, regional, and theoretical.

## Requirements

## The Major

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

## Departmental requirements:

A. 32 credit hours in Religion including at least one course from each of the following two groups:

- RELI 1320, RELI 1330, or RELI 1360
- 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.



spiritual. Attention will be given to such related questions as: How do you think about or define religion? How have scholars thought about and defined religion? What are common elements of religious life found throughout the 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? Prerequisite: 12 completed hours at the time of Registration

### 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 RELI 2460) (Offered every other year).

### 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







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



# Scientific Computing

## Faculty

[Farzan Aminian, Ph.D.](#) , Professor, Engineering Science

[Saber N. Elaydi, Ph.D.](#) , Professor, Mathematics; Director

[Julio Roberto Hasfura-Buenaga, Ph.D.](#) , Associate Professor, Mathematics

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

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

[Natasha Macura, Ph.D.](#) , Associate Professor, Mathematics

[David Ribble, Ph.D.](#) , Murchison Term Professor of Biology, Biology

[Dennis Ugolini, Ph.D.](#) , Professor, Physics and Astronomy

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

[Maistry, Ph.D.](#)

## Overview

Scientific Computing is a multi-disciplinary program designed for science majors who wish to explore the application of computing within the natural sciences. It is intended primarily for students majoring in one of the



- PSYC 3431 Memory and Cognition
- PSYC 3333 Simulation of Neural and Cognitive Processes

\* This course requires completion of a 3000-level course in Biology or Psychology.

# 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.](#) , Assistant Professor

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

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

[David Spener, Ph.D.](#) , Professor; Chair

[Amy L. Stone, Ph.D.](#) , Associate Professor

[Sheryl Tynes, Ph.D.](#) , Professor; Associate Vice President for Academic Affairs

## Overview

Two programs of study in sociology and anthropology focus on exploring critical social and cultural issues. Both areas of study offer a major and minor that include courses in human social life, including archeology, anthropology, and sociology.

# The Major

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



# 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.

## Courses

### ANTH-1301 Introduction to Anthropology

Variation in human thought and behavior is viewed in diverse cultural settings. The anthropological perspective on sociocultural processes at work in contemporary societies is presented. (Offered every semester.)

### ANTH-1304 Introduction to Classical Archaeology

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

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

### ANTH-2301 The Anthropological Imagination

This course provides potential anthropology majors a comprehensive understanding of anthropology as an academic discipline, focusing on anthropologist 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)

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-3-71 Anthropology Internship

Field work experience in a setting arranged and approved by the student, professor and agency selected. Supervision and guidance must be provided in the field and contact with the professor must be maintained. A student may repeat the course for a maximum of six semester hours. This course is taken Pass/Fail. Prerequisites: Consent of Instructor

### ANTH-3-72 Archaeological Practicum

Participation in an approved excavation in the Mediterranean world, Western Europe, or the Near East. Students will be expected to receive instruction in excavation techniques and in the recording and study of the site and the material. Two weeks' work will normally be counted as equivalent to 1 credit, up to a maximum of 3 credits. (Also listed as CLAS 4-72.) (Offered occasionally.) Prerequisite: Consent of Instructor

### ANTH-3-73 Archaeological Fieldwork

Field work experience in a setting arranged and approved by the student, professor and agency selected. Supervision and guidance must be provided in the field. (Offered occasionally.) Prerequisite: Consent of Instructor

### ANTH-3-90 Anthropology Independent Study

Individual research in selected areas. A student may repeat the course for a maximum of six semester hours. A project proposal must be submitted to and approved by the professor supervising the research prior to registration. Prerequisites: Consent of Instructor

### ANTH-3-91 Anthropology Special Topics

Occasional courses will be offered on current events or desired topics that students bring to the attention of the Department Chair. A student may repeat this course if the topics are different. A maximum of nine semester hours can be taken in 3-91 and 3394. (Offered occasionally.)

### ANTH-3159 Social Research Skills Workshop

A hands-on workshop integrating new research methods with emerging social scientific software. Attention will be given to the analysis of qualitative, quantitative and spatial data using computer software, along with developing research skills in interviewing, survey collection, and creating databases. Must be taken concurrently with ANTH 3359. (Also listed as SOCI 3159) (Offered every Fall.) Prerequisite: At least 6 hours completed in Sociology and/or Anthropology

### 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



### ANTH-3361 Research Methods: Fieldwork

This course provides a hands-on approach for learning how to undertake qualitative research through fieldwork, focused on the design and completion of a semester long research project. The course goals emphasize survey and interview techniques, writing and rewriting, and understanding how to present results in an accurate and effective manner. (Also listed as SOCI 3361). (Offered every Spring.) Prerequisite: ANTH/SOCI 3359

### ANTH-3365 Research Methods: GIS

This course provides a hands-on approach for learning how to undertake spatial social research focused on the design and completion of a semester-long research project. Spatial tools introduced emphasize geographic information systems. The course goals include map making and the integration of information technology and cartography. (Also listed as URBS/SOCI 3365). (Offered every year.) Prerequisite: ANTH 3359 or SOCI 3359

### ANTH-3367 South American Indigenous Peoples: Conquest and Development

The impact of colonialism and development on tropical forest and Andean Indian societies in South America with emphasis of the influence of native social and cultural systems in these groups' relations with national societies and international economies. (Offered occasionally.) Prerequisite: At least 3 hours completed in ANTH.

### ANTH-3368 Anthropological Ethics

This course will analyze ethical case studies and their ramifications in socio-cultural anthropology, physical anthropology and archeology. Case studies will range from historical incidents that shaped the ethics of current anthropology, as well as ethical dilemmas of practitioners in the field today. (Offered occasionally.) Prerequisite: At least 3 hours completed in ANTH.

### ANTH-3394 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-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. This class explores how gender transgressive individuals operate within existing social institutions, such as work and the family, along with covering 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-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 URBS 3445 and SOCI 3445). (Offered every other year.) Prerequisite: At least 3 hours

completed in ANTH, SOCI, or URBS

### ANTH-3446 Punishment and Society

While much of criminology is concerned with understanding why people commit crime, this course focuses on society's response to crime. As such, the course is an introduction to the ways social scientists measure, think about, and theorize punishment/ It introduces students to the American model of criminal punishment, contextualizes the American system internationally, and critically analyzes concepts of punishment generally. (Also listed as ANTH 3446). (Offered every Spring).

### ANTH-3448 Modern South Asia: India, Pakistan, and Beyond

This interdisciplinary course explores the historical, cultural, and political terrain of modern South Asia, a region that includes India, Pakistan, Bangladesh, Nepal, and Sri Lanka. (Offered every other year.) Prerequisite: PLSI 1331 or at least 3 hours completed in ANTH.

### ANTH-3452 Global Cities: Africa, Asia, arime. .

Consent of instructor

### ANTH-4-72 Archaeological Practicum

Participation in an approved excavation in the Mediterranean world, Western Europe, or the Near East. Students will be expected to receive instruction in excavation techniques and to



placed on understanding the physical, social, economic and political systems that create and sustain urban areas. (Also listed as URBS 1310)(Offered every year.)

### SOCI-1316 People and Places in Global Context

A study of the complex ways in which modern social organization materializes geographically. Topics include the distribution and movement of human populations, characteristics and distribution of cultural mosaics, patterns of economic interdependence, and the forces of cooperation and conflict among peoples from both global and local perspectives. (Also listed as URBS 1316).

### SOCI-2306 Introduction to Social Psychology

This course examines the effects of culture and social structure upon the thoughts, emotions, identities, and behaviors of individuals-how the individual exists within society and how society exists within the individual. Topics include how language and stereotypes shape perception, prejudice, how birth order and family dynamics shape personality, television's impacts upon sexuality and aggression, the historical evolution of individualism, urban psychology, and how group dynamics influence the success of sports teams and the creativity of think tanks. (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. (Offered every year.)







studied. Finally, we will study how contemporary American children and young adults fare, and why this is so. (Offered occasionally.) Prerequisite: At least 3 hours completed in Sociology

### SOCI-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 the rise of capitalism as a global mode of production and its impact on local cultures in the contemporary period. Special attention paid to the rise of transnational communities and grassroots movements for social justice. (Also listed as ANTH 3349) (Offered every other year.) Prerequisites: At least 3 hours completed in ANTH, ECON, PLSI, or SOCI

### SOCI-3350 Sociology of Law

The content and form of legal systems provide a framework for the examination of two key sociological concepts: social organization and social control. This course will focus on sociological theories of law as developed by Durkheim, Weber and Marx. The course will also examine modern perspectives with a focus on sociological jurisprudence and criminal law. Course materials will be supplemented with an examination of current issues in the development and application of law. (Offered occasionally.) Prerequisite: At least 3 hours completed in SOCI

### SOCI-3355 HIV/AIDS: Nature, Power, Populations

This course is an anthropological introduction to the HIV/AIDS epidemic. It examines the biological, historical, sociocultural, political, economic, ethical, and technological dimensions of the current epidemic, drawing from work in anthropology, sociology, the history of science/medicine, philosophy, epidemiology and public health. (Offered every other Spring) (Also listed as ANTH 3355) Prerequisites: At least 3 hours completed in ANTH or SOCI

## SOCI-3359 Social Research Design

An introduction to the basic research techniques used in the social sciences with an emphasis on research design, data collection and analysis. This course will include an overview of common methods within the social sciences,

completed in ANTH, SOCI, or URBS

### SOCI-3446 Punishment and Society

While much of criminology is concerned with understanding why people commit crime, this course focuses on

# School of Business

## Faculty

Amy Holmes, Ph.D. , Associate Professor

Julie Persellin, Ph.D. , Associate Professor

John Daniel Rice , Associate Professor

Linda Specht , Associate Professor

Michael Wilkins, Ph.D. , Jesse H. Jones Professor of Business Administration; Chair

William T. Burkse0 Jo



Bachelor of Science degree in the School of Business must be taken at Trinity University.

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

Students should apply for admission to major in accounting, finance, business analytics and technology, international business, or business administration early in the sophomore year so that they may be assigned a major adviser. The advising process is important for all School of Business majors as it provides a basis for the development of a comprehensive program that best meets both the academic and career objectives of the student.

The general requirements for the Bachelor of Science and Bachelor of Arts degrees are listed below. For full admission to any School of Business major, a student must first complete ACCT 1301, BUSN/ECON 2301, and ECON 1311 with grades of C or better.

## Requirements

- [Bachelor of Science in Accounting](#)
- [Bachelor of Science in Business Administration](#)
- [Bachelor of Science in Business Analytics and Technology](#)
- [Bachelor of Science in Finance](#)
- [Bachelor of Science in International Business](#)
- [Bachelor of Arts in Business](#)
- [Master of Science in Accounting](#)
- [Minor in Business](#)
- [Minor in Business Administration Legal Studies](#)

## Bachelor of Science in Accounting Degree

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

I. One of MATH 1305, MATH 1307, or MATH 1311.

## II. Core business curriculum (27 hours):

- ACCT 1301
- BAT 2302, 3301
- BUSN 2301, 3302, 4301
- FNCE 3301
- MGMT 2301
- 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.*

## III. Accounting major requirements (21 hours):

### A. Required courses (18 hours):

- ACCT 1302, 3341, 3342, 3343, 4344
- BUSN 3341

### B. 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 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.

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.

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; Spring semester ACCT 3342, ACCT 3343.

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

The requirements for full admission to the program include:

I. Senior standing as an undergraduate student, or a baccalaureate degree.

II. 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.

III. A grade point average of 3.00 or better on the last 60 hours of undergraduate level work and an average of 3.00 or better in the undergraduate major.

IV. Acceptable scores not more than five years old on the Graduate Management Admissions Test (GMAT).

V. Two letters of recommendation from professors or employers regarding the applicant's character, motivation, and intellectual ability.

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





## A. Required courses (15 hours):

- MGMT 3361
- FNCE/ECON 3361
- MKTG 3361
- INTB 3361
- INTB 4361

## B. International Business electives (3 hours):

INTB/CHIN/INTL 3330

*study abroad.*

## E. Language requirement:

Foreign Language (3301 or 3302). Student must either complete a modern foreign language course (min. level 3301) or demonstrate fluency in a foreign language.

IV. Completion of electives sufficient to bring the total credit hours outside of the School of Business to at least 60.

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

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

## Bachelor of Science in Business Analytics and Technology Degree

The requirements for the Bachelor Science in Business Analytics and Technology degree are as follows:

### III. Business analytics and technology major requirements (13 hours):

- BAT 1101
- BAT 3302
- BAT 3303
- BAT 3304
- BAT 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 electives sufficient to bring the total credit hours outside of the School of Business to at least 60.

## II. Core business curriculum (27 hours):

- ACCT 1301
- BAT 2302
- BAT 3301
- BUSN 2301
- BUSN 3302
- BUSN 4301
- FNCE 3301
- MGMT 2301
- 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):

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.

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 FNCE 3301.
2. Junior fall semester FNCE 3301 (if not already taken) and ACCT 3341.
3. Junior spring semester FNCE 3352, FNCE 3362, and ACCT 3342.
4. Senior fall semester FNCE 3351/ECON 3356
5. Senior fall semester elective FNCE 3363 (Student Managed Fund I) prerequisites include FNCE 3352 and FNCE 3362, interview in junior spring semester.
6. Senior spring semester FNCE/ECON 3361.

# Bachelor of Arts in Business Degree

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

I. One of MATH 1305, MATH 1307, or MATH 1311.

# 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. Requirements for the minor are the completion of at least 24 credit hours of School of Business courses. The following seven courses are required for completion of the minor:

- ACCT 1301
- BAT 2302
- BUSN 2301
- BUSN 3302
- MGMT 2301







### ACCT-5344 Advanced Auditing: Professional Standards and Practices

This course utilizes authoritative pronouncements, internet resources, case studies, and relevant academic literature to provide an in-depth study of the various professional standards that shape the audit process including those related to audit procedures, reporting responsibilities, and fraud.

### ACCT-5345 Advanced Managerial Accounting

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

Manufacturing. Prerequisite: BUSN 2301 or one of the following: MATH 1320, PSYC 2401, SOCI 3360, ANTH 3360  
URBS 3360

### BAT-3302 Data-Driven Decision Making

In this course we explore problems frequently encountered in the modern business arena that require a sophisticated degree of quantitative and analytic skills. The issues explored cut across functional areas and require an integrative look at the problem solving process. Topics include revenue management, demand forecasting, online auctions, recommender systems and other modern business topics that are data or calculation intensive (Offered every Spring.) Prerequisite: MATH 1308 or 1312 AND BUSN 2301

### BAT-3303 Business Analytics

This course evaluates the strategic use of data storage and analytic technologies; discusses trends on business analytics; covers concepts and methodologies for data warehousing, decision support, data mining, and business modeling; offers a structured introduction to the study of data analytics tools; and incorporates hands-on exercises using a variety of technologies from SAP, IBM, and Teradata (Offered every other Fall.) Prerequisite: Junior standing and MIS 2301 (Fundamentals of Information Systems)

### BAT-3304 Lean Operations

Grounded in practices developed by Toyota Motor Corp., "Lean" is a system of tools, techniques and philosophies that seek to relentlessly eliminate waste along the value added process in the creation of goods or services. Lean is the "de facto" benchmark in production systems, and it is becoming so for administrative processes and health care management. Through this course this will familiarize the student with the evolution of production systems, provide them with an advanced tool set for the implementation of Lean across different industries and allow the student to critically compare and contrast Lean with other production systems and philosophies. (Offered every Fall) Prerequisites: BUSN 3303 or Consent of Instructor

### BAT-4301 Consulting Experience in Business Analytics and Technology

This is an experimental course in which teams of students conduct consultancy projects at the premises of host organizations. Teams are guided by one or more faculty members and are evaluated by both faculty and the host

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

### BUSN-2301 Statistics for Management and Economics

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

### BUSN-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-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

For description see ECON 3362.

### 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 Latinamerica (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-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

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

An in-depth analysis of present and emerging ethical issues in professional life within the legal environment of business. Emphasis will be placed upon understanding professional and legal standards regarding practice, performance, and ethical behavior.

### BUSN-5390 Seminar in Business

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

### FNCE-1300 Personal Finance

This course cannot be used to satisfy any of the requirements for a Business degree. This course addresses the major personal financial planning issues that individuals and households face, with an overview that includes all aspects of personal financial management including budgeting, retirement planning, life and health insurance, income taxes, auto and real estate transactions, estate planning and personal investments. Topics also include establishing savings goals, using banking, credit, and other financial services, tax planning, making good investments, and comparing insurance products.

### FNCE-3996 Studies in Finance

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

#### FNCE-3351 Financial Institutions and Markets

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

#### FNCE-3352 Investment Principles and Analysis

Analysis of common stock, bonds, options, and futures. Topics include financial markets, valuation of securities, technical analysis, market efficiency, and portfolio theory. Prerequisites: FNCE 3301 and Junior standing.

#### FNCE-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



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 business with a focus on international contracts, torts insurance and trade law. (offered once a year). Prerequisite: BUSN 3302 or consent of instructor.

### INTB-3363 International Business Research

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

### INTB-3365 International Innovation

A critical examination of cross-border innovation and its significance for corporate competitiveness and sustainability. Theories relevant to inputs and outputs of international innovation from the perspective of international managers are covered and related to the managerial importance of innovation and corporate success in the international environment. (Offered once a year). Prerequisites: Junior standing, MKTG 2301, and MGMT 2301 or Consent of Instructor.

### INTB-3372 Practica profesional en Espana (Internship in Spain)

A supervised summer internship in Spain. Students enrolled in BUSN 3372 will serve as interns with various firms, trade groups, governmental agencies, or public interest groups where they will work and gain experience related to the Spanish economy and business world. The nature of the student's responsibilities will vary with the internship involved and be subject to the approval of the supervising faculty member. (Also listed as ECON 3372, SPAN 3372, and LAC 3372). (Offered once a year). Prerequisites: ECON 1311, three additional hours in business or economics, SPAN 2302 or the equivalent, and consent of instructor.

### INTB-3396 Internship in International Business

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



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

### INTB-4361 International Business Strategy

This course aims to provide students with the opportunity to examine how multinational enterprises strategize in the global market place. Major topics include strategy and the firm, international expansion strategies, cross-border strategic alliances and networks, mergers & acquisitions, and global competitive dynamics. (Offered once a year).

### INTB-4362 International Branding

Strategic and critical examination of how brands, including corporate and product brands, are managed in a global environment from a multinational organization's viewpoint. Emphasis is placed on international brands in China and Chinese brands in other countries. Course taught in English. (Also listed as CHIN 4362). (Offered once a year). Prerequisites: Senior Standing and Consent of Instructor.

### MGMT-2301 Management of Organizations

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

### MGMT-3-90 Studies in Management

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

### MGMT-3311 Labor Economics & Labor Relations

For description see ECON 3329.

### MGMT-3361 International Management

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

### MGMT-3371 Human Resources Management

Examines by discussion and experiential learning techniques the major activities associated with the area of Human Resource Management: equal employment opportunity, personnel planning and selection, training and

management development, employee discipline, labor-management relations, and current topics such as AIDS and substance abuse in the workplace. Special emphasis is placed on practical application of this knowledge to general management in all types of organizations.

### MGMT-3372 Organizational Behavior

Examines the nature of interpersonal and group relations in work organizations using behavioral science and modern management thought. A study of organizations as socio-technical systems with emphasis on communication, motivation, leadership, conflict resolution, and organizational development. Prerequisites: MGMT 2301 and Junior standing.

### MGMT-3383 Management of Health Care Organizations

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

### MGMT-4371 Strategic Management

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

### MGMT-5371 Human Resources Management

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

### MGMT-5372 Conflict Management

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

### MIS-5381 Database Management

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

instructor.

### MIS-5391 Knowledge Management

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

### MKTG-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-3-90 Studies in Marketing

Designed for students wishing to continue the study of marketing beyond areas offered in regular classroom work. Credit from one to six hours. No more than a total of six hours credit may be earned in 3-90 courses in Business Administration. Prerequisites: Consent of instructor, MKTG 2301, and Junior standing.

### MKTG-3361 International Marketing

Examination of the international marketing environment from the perspective of a marketing manager. Includes the study of the nature of and problems and opportunities in the global marketplace. Strategic application of marketing principles to compete effectively in world markets. Prerequisites: MKTG 2301 and Junior standing, or consent of instructor.

### MKTG-3381 Consumer Behavior

The study of consumer decision making and the influence upon those decisions. Examines the behavior of consumers throughout the range of prepurchase, purchase, and post purchase activities with reference to both internal psychological processes and external environmental influences on behavior. Prerequisites: MKTG 2301 and Junior standing.

### MKTG-3382 Promotion Management

A study of the promotion activities of business firms; analysis of consumer buying behavior and motivation; personal selling; advertising and sales promotional techniques and the development of an integrated promotional plan. Prerequisite: MKTG 2301 and Junior standing.

### MKTG-3383 Marketing and Business Research

The application of both behavioral and quantitative research to business problems. Topics include: research

design, information sources, measurement techniques, questionnaire design, sampling, data analysis, and applications within the marketing mix. Prerequisites: MKTG 2301 and either one of the following BUSN 2301, MATH 1320, PSYC 2401, SOCI 3360, ANTH 3360, URBS 3360; and junior standing

### MKTG-4381 Marketing Management

The role of marketing in business and society. The management of the marketing function and its interrelationship with other functional areas within the organization. Problems, decisions and the decision-making process of marketing managers. Strategy formation, execution, and control. Prerequisite: MKTG 2301 and Senior standing.

### 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-5390 Seminar in Marketing

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

# Sport Management

## Faculty

Carolyn Becker, Ph.D. , Professor, Psychology

Jennifer Jacobs Beckwon, 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

Jacob Tingle, Ed.D.

## 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

## Finance

- ACCT 1302 Fundamentals of Managerial Accounting\*
- FNCE 3301 Financial Administration of Business Firms\*
- FNCE 4351 Financial Management and Policy\*

## Management

- BUSN 3311 Organizational Communication (also listed as HCOM 3362)
- ECON 3327 Sports Economics
- ECON 3329 Labor Economics and Labor Relations\* (also listed as MGMT 3311)
- HCOM 3360 Communicating in Small Groups and Teams
- HCOM 3362 Organizational Communication (also listed as BUSN 3311)
- MGMT 3311 Labor Economics and Labor Relations\* (also listed as ECON 3329)
- MGMT 3371 Human Resource Management
- MGMT 3372 Organizational Behavior\*

\*This course has at least one prerequisite. See the course description for details.

## Courses

### SPMT-1106 Sport Officiating Laboratory

This laboratory is designed to provide students an opportunity for practical implementation of the practices and skills learned in SPMT 1306. (Also listed as PHED 1106). Prerequisite: SPMT 1306 or consent of instructor.

### SPMT-1165 Intramural Programming

In this course, students will plan and participate in new recreational opportunities. Students will create an event and teach their classmates the rules, regulations, and policies for that particular sport or recreational activity and then participate in that event as a group. (Also listed as PHED 1165)

### SPMT-1306 Sport Officiating

The purpose of this class is to provide students a meaningful educational experience of both a practical and theoretical nature in the area of sports officiating.

### SPMT-1312 Sport in Society

A study of contemporary issues in sport and the impact sport has on society. Topics that will be critically analyzed included children and sport, sport and education, gender and racial issues, and deviance in sports.

### SPMT-1314 Athletic Facility and Event Management

This course explores the basic concepts pertaining to the planning, organizing, and conducting of sporting events, both amateur and professional. Additionally, the course will address the planning, development, and maintenance of sport and leisure facilities.

#### SPMT -3-90 Directed Study in Sport Mgmt

Independent study or research, or advanced selected topics in sport management that are not covered in other classes. Variations in credit according to the work performed, 1 to 3 credit hours. Class may be repeated once, provided the topic varies. Prerequisite: Consent of instructor

#### SPMT -3-99 Sport Management Internship

The Internship is to be structured and supervised professional work experience with an accepted employer in the private, public or non-profit sector. To be recognized, the experience must be pre-approved and must include



and sport management. It is designed to provide students with a fundamental, theoretical and practical knowledge

## SPMT-4302 Seminar in Contemporary American Sport

Discussion-oriented course focusing on the connection between sports, culture, and selected contemporary American institutions. Using theoretical frameworks such as cultural hegemony, social capital, and new institutionalism, students will explore the place of sports in educational institutions, the intersection of sports and politics, the symbiotic relationship between sport and media, and the economic realities of modern sport.

Prerequisite: SPMT 3314 or Consent of Instructor

# Urban Studies

## Faculty

[Richard V. Butler, Ph.D.](#) , Professor, Economics

[Christine Drennon, Ph.D.](#) , Associate Professor, Sociology and Anthropology; Director

[Keesha Middlemass, Ph.D.](#) , Assistant Professor, Political Science

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

[Kathryn O'Rourke, Ph.D.](#) , Assistant Professor, Art and Art History

[Nels Christiansen, Ph.D.](#) , Assistant Professor, Economics

[Kenneth Loisel, Ph.D.](#) , Associate Professor, History

[Patrick Shay, Ph.D.](#) , Assistant Professor, Health Care Administration

[Curtis Swope, Ph.D.](#) , Assistant 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 Literatures

## A. The Core Curriculum (6 credit hours)

URBS/SOCI 1310 The Urban Experience

- 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

credit hours.

## The Minor

### I. Completion of 18 credit hours of Urban Studies courses, including:

- A. URBS/SOCI 1310 The Urban Experience
- B. Urban Studies electives (15 credit hours) chosen from the Concentration lists above.
- C. Additional Requirements:

At least 9 hours of the total must be in upper-division courses.

### URBS-3-88 Urban Studies Internship

Field-work experience in a setting approved by the student, professor, and the organization selected. Supervision and guidance will be provided by the host organization and the professor. The course must be taken on a graded basis. Prerequisite: Consent of instructor

### URBS-3-89 Urban Studies Practicum

Field-work experience in a setting approved by the student, professor, and the organization selected. Supervision and guidance will be provided by the host organization and the professor. This course must be taken on a Pass/Fail basis. Prerequisite: Consent of instructor

### URBS-3-90 Independent Study

Independent study in selected areas. 1 to 6 hours. Prerequisites: 6 advanced hours in Urban Studies or consent of instructor.

### URBS-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 Land 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

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-3344 Research Methods: Geographical Information Systems

Introduction to the use of geographic information systems to research urban issues and problems. Students will become familiar with key geographic concepts and skills through integrating information technology with map making technology. Course includes introduction to computer and web-based geographic applications, databases, and graphics. (Also listed as SOCI 3344.) Prerequisite: SOCI 3360 or Consent of Instructor.

#### URBS-3360 Research Methods: Applied Social Statistics

This course provides hands-on approach for learning how to undertake quantitative social research focused on the design and completion of a semester long research project. A variety of statistical tools are addressed, including descriptive statistics, tests of significance, and linear regression and correlation. The course goals emphasize writing and rewriting, learning how to formulate and test research hypotheses, and understanding how to present results in an accurate and effective manner. (Also listed as SOCI 3360 and ANTH 3360). (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



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

# Women's and Gender Studies

## Faculty

[Dania Abreu-Torres, Ph.D.](#) , Assistant Professor, Modern Languages and Literatures

[Laura Agoston, Ph.D.](#) , Associate Professor, Art and Art History

[Rosana Blanco-Cano, Ph.D.](#) , Associate Professor, Modern Languages and Literatures

[Jenny Browne, M.F.A.](#) , Associate Professor, English

[Andrew Kania, Ph.D.](#) , Associate Professor, Philosophy

[Debra Ochoa, Ph.D.](#) , Associate Professor, Modern Languages and Literatures; Co-Director

[Amy L. Stone, Ph.D.](#) , Associate Professor, Sociology and Anthropology; Co-Director

[Angela Tarango, Ph.D.](#) , Associate Professor, Religion

## Overview

## The Minor

The minor in Women's and Gender Studies is an interdisciplinary program that explores the cultural construction of gender and sexuality from a variety of academic perspectives. Classes investigate gender in relation to such topics as race and class; women's history and power; men's studies; and queer studies and theory.

Students interested in declaring a Women's and Gender Studies minor should contact the co-directors of the Women's and Gender Studies Committee.

## Requirements

## Requirements

The requirements for a minor in Women's and Gender Studies are as follows:

1. **19 credit hours consisting of at least one core course and courses from at least two of the categories listed under [Supporting Courses](#):** Humanities, Soci c15 and Nratui c15 r Stumentsumyf akheSun tonthehe

3. **No more than 6 hours** can be taken from a single department listed below under [Supporting Courses](#).
4. **At least 9 hours** must be upper-division courses.



- SOCI 3329 Sexuality and Society (also listed as ANTH 3329)
- SOCI 3331 Language, Culture, and Society (also listed as ANTH 3331)
- SOCI 3332 Sociology of Health and Illness (also listed as URBS 3332)
- URBS 3332 Sociology of Health and Illness (also listed as SOCI 3332) 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

This course analyzes gender and sexuality by addressing topics organized under themes selected by participating faculty through class discussions, lectures, student presentations, and visiting speakers. Students may enroll in the colloquium no more than three times.

### WAGS-3-18 Women's Studies Colloquium

The colloquium meets under direction of faculty of the Women's and Gender Studies Advisory Committee. Session topics are organized around themes selected by the Advisory Committee, to be explored through class discussions,

faculty research, student presentations, and visiting lecturers. Students may enroll in the colloquium no more than three times.

### WAGS-3-19 Queer Studies Colloquium

The Queer Studies Colloquium analyzes the variety of gender identities and representations, including lesbian, gay, bisexual, transgender and transsexual topics. In addition, this course help understand conventional heterosexuality within a broader context. Session topics are organized around themes selected by University faculty, to be explored through class discussions, lectures, student presentations, and visiting speakers. Students may enroll in the colloquium no more than three times.

### WAGS-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.