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Academic Organization

[AddRan College of Humanities and Social Sciences](#)

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[M.J. Neeley School of Business](#)

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TCU is composed of seven academic units offering undergraduate bachelor's degrees in 82 majors. These colleges and schools also offer graduate degrees (see TCU Graduate Studies Catalog for more information). In addition, students can earn a certificate in Ranch Management or take a full range of non-credit courses through the Office of Extended Education.

While students normally concentrate their work in the school or college of their major field, they may have classes in any or all. All undergraduates will have some courses in AddRan College of Humanities and Social Sciences and the College of Science and Engineering, for a broad, liberal arts-based educational background in the humanities, natural and social sciences.

AddRan College of Humanities and Social Sciences is the center of TCU's well-developed tradition of emphasis on liberal arts. Courses in the humanities and social sciences form a major part of the core studies for all students. Degree programs within AddRan's 22 departments provide the solid liberal arts base needed for professional study toward the ministry, law, medicine, business, teaching or other related fields. Some have a professional orientation within themselves, with specialized study leading toward specific career objectives. In all of the programs, students will find flexibility and freedom balanced by structure and discipline.

Professional training combined with liberal arts studies are the hallmarks of the **College of Communication**. Within the departments of journalism, speech communication, and radio-TV-film, students learn to apply their classroom experiences. Located in the eighth largest media market in the U.S., graduates find ample opportunity to develop their skills in their desired field. Personal counseling and relatively small classes allow the faculty to give attention to the work of each student.

The College of Fine Arts represents a vital and integral part of TCU's educational history. The College houses the School of Music and the departments of art and art history, ballet and modern dance and theatre arts. These academic programs exact an appropriate balance between professional training and liberal arts studies. Personal counseling and relatively small classes allow the faculty to give attention to the work of each student.

College of Health and Human Services unites the Harris School of Nursing and three departments--communication sciences and disorders, kinesiology, and social work--in an integrated unit. The degree programs offered by the College build on the excellent foundation provided by the liberal arts and sciences and prepare graduates to practice in complex and varied professional settings. Many of the courses offered in the College allow students to learn through practicing professional and clinical settings and encountering multiple and diverse disciplines, practitioners, and clients.

The College of Science and Engineering provides an interdisciplinary program that bridges liberal arts studies with the technical skills the world demands. Composed of the departments of biology, chemistry, computer science, engineering, geology, mathematics, nutritional sciences, physics and astronomy, and psychology, the College offers bachelor of science degrees with majors in 18 fields of study and bachelor of arts degrees with majors in 6 fields. The college also administers the bachelor of general studies degree and the pre-health professions programs (pre-dentistry, pre-medicine, pre-veterinary medicine).

The M.J. Neeley School of Business prepares students to contribute to the professional world and to the larger community through emphasis on a balanced curriculum. A unified program of basic studies provides a solid knowledge base upon which students add principles of accounting, decision sciences, finance, management, information systems and marketing, as well as distinct competencies that allow them to lead in the business world.

The School of Education is organized into two departments -- curriculum and instruction, and educational foundations and administration. Both programs combine theory with practicality, with courses focusing on teaching in a school setting, solving instructional problems, resolving ethical issues and making curricular decisions. Students learn that a teacher's role is to strengthen young people, to build sensitivity and intelligence, and to never place a limit on what is possible for anyone to achieve.

Ranch Management Program. Study in all phases of ranch management is offered through a full-time program completed in one academic year of two semesters with six courses each. The program combines intensive classroom instruction in basic principles of land, grass, livestock, records, finance and marketing with 10,000 miles of travel to study ranches, farms, feedlots, markets and experiment stations. Students are selected by interview and are admitted only at the beginning of the fall semester.

Office of Extended Education. Non-credit courses, workshops and off-campus courses are coordinated through the Office of Extended Education. Non-degree admissions are also processed through this office. Its goal is to provide quality life-long learning opportunities for the community.



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M.J. Neeley School of Business

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The M.J. Neeley School of Business offers a program of study to prepare its students to contribute to the professional business world and the larger community. The Neeley School emphasizes a unified program of basic studies<humanities, social sciences, natural sciences, mathematics, economics and business. The concept of a balanced curriculum extends to the business studies. Although students may concentrate in a particular field of business, they all study the principles of accounting, decision sciences, ebusiness, finance, entrepreneurial management, and marketing.

A quality curriculum in business fundamentals is of the utmost importance to the Neeley School. The curriculum is developed and implemented by a faculty recognized as scholars and leaders in their respective fields. Regular input is provided by Neeley School corporate partners through advisory groups and frequent classroom visits by executives.

Additionally, the Neeley School seeks to provide its students with the distinctive competencies needed to compete and lead in the business world: effective communication skills, the ability to utilize business technology, an understanding of the global nature of business, and a sense of the value of making ethical business decisions.

The M.J. Neeley School of Business is fully accredited by the American Assembly of Collegiate Schools of Business at both the undergraduate and the graduate levels.

Faculty

The men and women on the faculty represent an array of cultural backgrounds and bring to students a rich variety of academic training, teaching experience, research, consulting, scholarly publication, and business and community service. Several faculty members have authored widely-used texts in the field of business.

Teaching is of primary importance; the most senior professors teach at both the undergraduate and graduate levels. Personal contact with students is encouraged through classes of moderate size. Through the use of audio and visual aids, conferences, business case analysis, software applications, and organizational studies, instructional theory is merged with practical and relevant situations.

Research is an important faculty activity. It enables faculty to stay in the forefront of their respective fields. Research activities feed back into the classroom to ensure that today's students will be prepared for the world as it is when they graduate and as it changes over their careers. Faculty research results have been published in many of the leading academic journals.

One of the real strengths of the Neeley School is its relationship with the business community. Numerous local, regional, national, and international organizations make up a vast network of corporate partners that are committed to accomplishing the goals of the Neeley School.

The Neeley School enjoys many benefits as a result of its corporate relationships, including: internship opportunities, part-time and permanent job opportunities, scholarship support, classroom speakers, and mentors.

Perhaps the most visible members of this network are the Neeley School's International Board of Visitors. This distinguished group of executives from across the globe provides valuable feedback and program support and serves as a vital link between the Neeley School and other corporate constituents.

International Initiatives

The globalization of today's business environment dictates that learning experiences can no longer be compartmentalized into "international" and "domestic" arenas. Consistent with this philosophy, the Neeley School incorporates a global perspective throughout the undergraduate curriculum. Whether the students are studying Money & Banking or Sales Management, they will be challenged to consider the topic with an international perspective.

To assist the Neeley School in achieving this end, we have developed several partnerships with universities in Mexico, France, Germany, and Scotland. Through these partnerships, faculty members from each institution are invited to participate in exchange opportunities, serving as guest lecturers in their area of expertise. New Programs

are in development that will offer students and faculty short term reciprocal exchanges with partner institutions during the academic year.

We believe that creating globally-minded business leaders goes far beyond mastering the international perspective of business topics. True appreciation of the global environment requires cultural empathy, knowledge of a variety of languages and political and geographical awareness. To this end, the Neeley School offers the International Emphasis certification program. Through this program, dedicated students can earn a BBA in the major of their choice with an additional "international emphasis" designation on their transcript. Specific details of the International Emphasis certification may be found on the following pages.

In order for students to think globally, they must become physically global. There is no substitute for experience. The Neeley School supports the many study-abroad opportunities available to TCU students, yet goes one step further. Intensive, field seminars, such as Summer-In-Germany (4 weeks) and Entrepreneurship in the UK (3 weeks), are coordinated by the Dean's Office. The goal of these partnerships is to expose Neeley School business students to the realities of the corporate environment in other countries. On-site tours and one-on-one interaction with executives from companies are included in these programs. These tours and interactions enable the programs to move beyond traditional "classroom based" exchanges. Students are required to use local transportation and tour historic sites. Hundreds of Neeley School students and dozens of Neeley School faculty have had the opportunity to experience these unique study abroad programs.

Center for Productive Communication

Through the M. J. Neeley Center for Professional Communication (CPC), the Neeley School offers a unique approach to helping students become proficient in business communication. The Neeley School has been rated consistently by The Princeton Review as one of the best business schools in the country for the development of strong communication skills.

The Center directs activities in the following six programs:

Communication Certification The Certificate is an award of merit presented to students who have participated at a level of excellence in a variety of activities and diagnostics assessed by the CPC.

Neeley School Classroom Support The Center provides assistance to faculty as they incorporate communication skills in their classes. Also, it provides coaching and assistance to students as they develop the business communication skills essential to corporate success.

CPC Technology Initiative The Neeley School encourages students to embrace newer communication technologies in an effort to improve efficiency and effectiveness in their business interactions. To that end, the CPC provides the only video conference center devoted to student use.

CPC Workshops and Clinics The CPC regularly offers noncredit workshops and clinics focusing on specific communication skills such as effective presentations, presentation graphics, dealing with presentation anxiety, collaborative writing, networking, intercultural communication, and many others.

Lifelong Skills Development The Neeley School seeks to develop a commitment to continuous communication skill development. Accordingly, the CPC offers a variety of activities as well as information and referral for other communication resources on campus and in the community.

CPC Communication Culture Initiative A focus on communication is integrated across the curriculum so that assignments within all the functional areas emphasize the communication aspects as well as the content. The Neeley School seeks to model outstanding communication in all its activities.

Communication resources are housed in the M. J. Neeley Center for Professional Communication, located on the first floor of Charles Tandy Hall. Facilities include a modern video conference room. Specialized equipment includes a PictureTel System, a voice-activated camera, cart-mounted document cameras to transmit graphic displays, computers adapted for video transmission, and large-screen monitors. There are five specially equipped videotaping rooms for classroom recording, practice, or private review. The CPC's media station offers specialized graphics software, optical scanning, digital video editing, and hundreds of professional copyright-free business photographs for use in student projects. Selected software training packages are provided by the Center for grammar and style improvement, presentation graphics development, and other computer-assisted instruction.

Educational Investment Fund

The Educational Investment Fund is a once-in-a-lifetime opportunity for students to invest real money while still in college. Approximately 18 students manage over approximately two million dollars in assets of the William C. Conner Foundation. The participants in the Educational Investment Fund do intensive analysis of stocks and bonds and make buy and sell decisions.

The experience gained in the program is comparable to a year's work experience in the eyes of many potential employers and places the TCU graduate in an extremely advantageous job-search position. Hundreds of TCU students have participated in this program over the last 25 years and these ex-members represent a worldwide network of potential contacts for current members.

Special Scholarships and Awards

For students in accounting, the Accounting Excellence Award of the Texas Society of Certified Public Accountants and the TCU Accounting Department Award for Distinguished Service are granted each spring to outstanding graduating seniors. The Robin Elisa Boyer Memorial Scholarship and the Robert Schumacher Scholarship are awarded annually to seniors entering the Master of Accounting (Mac) Program. Outstanding junior accounting

majors may be granted a Petroleum Accountants Society Award, a Deloitte & Touche Award, or the Institute of Management Accountants Award.

The Management Department presents three awards annually to outstanding Entrepreneurial Management majors: the Senior Scholar Award based on GPA and leadership contributions, the Outstanding Management Student Award for Leadership and Service sponsored by Texas Industries, Inc. and the Barbara J. Snell Award for Outstanding Leadership sponsored by the North American Mortgage Company.

The E-Business Program makes awards annually to outstanding students majoring in E-Business: the Senior Scholar Award based on GPA and leadership contributions and the Outstanding E-Business Student Award.

The Marketing Department grants eight awards annually to outstanding students: Marketing Senior Scholar Award (highest GPA), Outstanding Marketing Student Award (best overall marketing student), the Hoechst Marion Roussel Sales Management Award, the Earl Dyess Award, the International Marketing Scholar Award, the DSS Research Marketing Research Award (to a student with a strong interest in marketing research), the Marketing Application Project (for student contribution and leadership in the annual class promotional event) and the Marketing Department Excellence Award (student contribution to the field of marketing). Additionally, the TCU chapter of the American Marketing Association sponsors an award for students who demonstrate marketing leadership skills.

The Finance and Decision Sciences Department recognizes the senior who best exemplifies the ideal of an outstanding finance major with the Achievement Award of The Wall Street Journal. The Fort Worth Mortgage Bankers Association Award is given to a senior pursuing a career in real estate. The Finance/ Decision Sciences Department also awards the "Professor's Award" for excellence in Finance and excellence in Decision Science. Additionally, a student is selected from among those participating in the Educational Investment Fund during the past academic year for the Outstanding Educational Investment Fund Student Award.

Awards given by student groups include the Delta Sigma Pi Scholarship Key.

Organizations

Alpha Sigma Gamma International Real Estate Society. The purpose of this society is to recognize and reward superior academic performance in the estate and real estate curricula, to encourage research and teaching in real estate and related fields, and to recognize individuals in real estate and related business areas who exemplify the intelligent and ethical application of real estate knowledge. Student membership is open to undergraduate and graduate students meeting specific academic criteria.

American Marketing Association. The TCU Collegiate Chapter of the American Marketing Association is open to all students. The club helps bridge the gap between marketing theory and practice. The club meets every other week, bringing in top companies and recruiters as speakers.

Beta Alpha Psi. The purpose of Beta Alpha Psi, national student accounting honor society, is to encourage and foster the ideal of service as basic to the accounting profession; to promote highest ethical standards in the study of accountancy; to develop high moral, scholastic and professional attainments in its members; and to encourage cordial relationships among its members and the accounting profession generally. Students are invited on the basis of scholarship.

Beta Gamma Sigma. This national honor society for business students encourages and rewards scholarship and accomplishment among students, promotes education in business, and fosters integrity in the conduct of business operations. Only the top seven percent of juniors and the top ten percent of seniors are invited to join.

Collegiate Entrepreneurs Club. CEO! Empowers students through leadership training, professional development, and commitment to the discipline of entrepreneurship. There are on campus chapter meetings, interesting guest speakers, social gatherings, and a monthly newsletter. Students may attend the national conference and participate in a new business idea competition.

Delta Sigma Pi. TCU's chapter of this international fraternity tries to establish closer ties between the business world and the student. Its objectives are to promote a higher standard of business ethics, and to further the civic and commercial welfare of the community. The chapter takes various field trips to industries and sponsors speakers and panels.

Electronic Business Association. The mission of the EBA is to further the educational development of undergraduate Electronic Business majors through association with other students, faculty members, potential employers and other influential members of the community, thus cultivating a unified body of students and alumni.

Financial Management Association. For students with an interest in finance and related fields, the Financial Management Association provides a means of obtaining career information and access to business executives and faculty.

Society for Human Resource Management. The TCU Student Chapter of the Society for Human Resource Management provides students an opportunity to learn more about the practice of management, and in particular, human resource management. The chapter hosts guest speakers, takes field trips, and attends regional and state professional meetings. The chapter also hosts workshops and panels on a variety of current management topics for the benefit of the entire student body.

Academic Policies

Admission to the Neeley School

To become a business major, students must formally apply for admission to the Neeley School. Students will typically apply in their sophomore year for admission to upper-level courses (30000-level or above except MARK 30153) to be taken in the junior year. All TCU students or students transferring to TCU who wish to become

business majors must contact the NSRC regarding admission policies, procedures, and deadlines.

Academic Review

The academic records of all pre-business students and business majors are reviewed following submission of grades at the end of the Fall and the Spring semesters. The minimum required TCU cumulative GPA for all pre-business students and business majors is 2.50. Students who do not meet the 2.50 minimum GPA requirement may submit a formal appeal through the NSRC for consideration by the Associate Dean of the Neeley School for permission to continue as students or business majors. The Neeley School considers the appeal to be a professional communication and will review it based on that expectation. Please contact the NSRC for more information regarding the appeal process.

Academic Advising

Pre-business students in the Neeley School are assigned an academic advisor by the NSRC. Pre-business students who have applied and been accepted as a business major will also be assigned a faculty advisor within their major. The role of the faculty advisor is to provide specific information about the major and career guidance.

The Neeley Student Resource Center is open daily to answer the questions of all prospective and continuing students in the Neeley School. The NSRC coordinates advising, monitors academic progress of students, receives academic appeals, processes all transfer coursework, handles the changing of majors within the Neeley School, works with CLEP Test applications, directs study abroad procedures, and audits intent to graduate forms for graduating business majors.

In addition to NSRC and faculty advisors, the Neeley School has the Virtual Advisor on the Neeley School web page. <http://www.neeley.tcu.edu/nsrc>. During registration periods, peer advising by upper division business majors is available to all Neeley Business students.

Pass/No Credit Option

Pre-business students or business majors may take up to 6 semester hours of courses on a pass/no cred-it basis. However, upper division business courses (30000-40000 level) may not be taken on a pass/no credit basis and applied to the BBA degree, unless the course is taught only on a pass/no credit basis. Students minoring in business are subject to the pass/no credit option policies of their major department.

Course Prerequisites

Course prerequisites include admission to the Neeley School as a business major, class standing, previous coursework, grades in previous coursework, and/or permission of the instructor. All course prerequisites should be observed and followed when enrolling in a course. The ultimate responsibility for knowing the prerequisite for a course lies with the student and is noted in this Bulletin. Course prerequisites are noted in the Courses of Instruction section of this Bulletin, and are listed on the TCU Registrar's web page <http://www.reg.tcu.edu>.

Minimum Requirement for Business Courses Completed at TCU

In addition to the residency requirement of the University, students majoring in business must complete **at least 50% of the following semester hours at TCU:**

- a. business core courses,
- b. required business courses in their major, and
- c. elective courses in business.

Independent Study Courses

Students wishing to enroll in an independent study course in the Neeley School must be a business major and complete the independent study course application available in the NSRC and meet all of the GPA and credit-hour requirements. This application must be filed in the NSRC and approved prior to registration for the course.

Academic Appeal Process

A student seeking an exception from any policy stated in this Bulletin should submit a formal appeal to the coordinator of the NSRC for consideration. The Neeley School regards the appeal to be a professional communication and will review it based on that expectation. Please contact the NSRC for more information regarding the appeal process.

Transfer Policies

Review Process for Transfer Applicants into the Neeley School

Transfer students must first become pre-business students. Approval is not automatic, and admission to TCU does not guarantee the student admission as a pre-business student. The transfer student must complete at least 1 full semester at TCU as a pre-business student before becoming a business major. Students must apply to be business majors. Admission is competitive and approval is not automatic. Upon acceptance into the Neeley School as a business major, the student may begin taking Upper Division Business courses.

Continuing TCU Students Who Want to Transfer Credit From Other Institutions

Continuing TCU students will sometimes take courses at other universities and then transfer those credits to TCU. TCU requires **prior** written approval of the NSRC to take courses at another school for application to a student's BBA degree. Course credit will not be transferred into the Neeley School if prior approval by the NSRC has not been obtained.

Once a student is in the Neeley School, all business **Lower Division Sequence** Requirements courses, **Upper Division Business Core** and **Major Course Requirements** must be taken at TCU.

Non-Availability of Evening Programs

Although the Neeley School does offer some courses in the evening, an evening-only program is not available. Students wanting to take only evening courses should be aware that all required courses may not be offered during the evening.

Certification for Business Teaching

The M.J. Neeley School of Business cooperates with the School of Education by offering business courses for the academic specialization requirements for certification of high school business teachers. More information is available through the School of Education.

Three-Two Program

Available only to TCU undergraduates in participating TCU colleges and schools, the Three-Two Program allows students to combine a bachelor's degree in a non-business field with the Master of Business Administration (MBA) in only five years.

Students spend their first three years in the AddRan College of Humanities and Social Sciences, College of Science and Engineering, College of Communication, or College of Fine Arts completing the University Curriculum Requirements and the requirements of an approved major. By the end of their third year, Three-Two Program students must complete at least 100 hours in non-business courses, including sufficient coursework in mathematics to satisfy the MBA Program prerequisites. To be considered for admission to the MBA program, Three-Two Program participants must submit the usual MBA application during their third year of study, including scores for the GMAT (Graduate Management Admission Test). Only Three-Two candidates demonstrating superior undergraduate academic performance and strong GMAT scores will be considered for admission.

If admitted to the MBA Program, the student completes the first 27 semester hours of the MBA program during the fourth year of study. These courses apply to both the undergraduate degree and toward the MBA degree. Candidates should work with their undergraduate academic advisors to determine how the courses will apply to the undergraduate degree (electives, minor requirements, area of emphasis, etc.). At the end of the fourth year, assuming that all other graduation requirements are met, the student earns his or her undergraduate degree. During the fifth year the student completes the remaining 27 semester hours of MBA courses.

The following is a complete list of courses offered by this department. Go to Class Search on Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

General Prerequisites for Business Courses

All 10000 and 20000 level business courses (except EBUS 20813) are open to all students, provided they meet the specific prerequisites for those courses.

All ACCT 30153, FINA 30153, DESC 30153, MANA 30153, and MARK 30153 courses are open to students who have been formally accepted into the Neeley School as Business majors or who are business minors. Once regularly scheduled course enrollments have been completed, other students will be added to these courses on a space available basis.

All upper level (30163 to 40970) business courses in ACCT, FINA, DESC, MANA and MARK, plus EBUS 30253, are restricted to students who meet the specific prerequisites for those courses (listed next to each course) and have been formally accepted into the Neeley School as Business majors.

All EBUS 20813 to EBUS 40970 courses (except EBUS 30253, which is required of all business majors) are restricted to students who meet the specific prerequisites for those courses and who have been formally accepted into the Neeley School as E-Business majors.

ACCOUNTING (ACCT)

20153 PRINCIPLES OF FINANCIAL ACCOUNTING. 3 hours. *Prerequisite: sophomore standing.* A study of the elementary concepts of financial accounting, emphasizing the measurement, recording and reporting of financial information according to generally accepted accounting principles.

20163 PRINCIPLES OF MANAGERIAL ACCOUNTING. 3 hours. *Prerequisite: ACCT 20153 and sophomore standing.* Basic measures, techniques and approaches used by decision makers within both profit-making and not-for-profit organizations. Accounting and economic concepts of cost are studied in relation to performance measurement, planning, and both long- and short-term planning and decision-making, as are the common systems of product costing.

30153 INTERMEDIATE FINANCIAL ACCOUNTING I. 3 hours. *Prerequisites: ACCT 20163 and at least a "C" grade in 20153 and 20163.* In-depth study of the theory, principles, and procedures of the measurement, recording, and reporting of financial accounting information according to generally accepted accounting procedures. Intermediate I focuses on assets and their related income counterparts.

30163 COST ACCOUNTING. 3 hours. *Prerequisites: A business major, ACCT 20163 and at least a "C" grade in 20153 and 20163.* Cost accounting fundamentals, the use of standard costs and budgets for planning and controlling operations, and use of cost information for special decisions and long-range planning. (Spring)

30253 INTERMEDIATE FINANCIAL ACCOUNTING II. 3 hours. *Prerequisites: A business major, ACCT 30153 and at least a "C" grade in ACCT 20153, 20163, and 30153.* In-depth study of the theory, principles and procedures of the measurement, recording, and reporting of financial accounting information according to generally

accepted accounting procedures. Intermediate II focuses on equities and the related asset and income counterparts.

30303 INTRODUCTION TO FEDERAL TAXATION. 3 hours. *Prerequisites:* A business major and ACCT 20153. A technical examination of current federal income tax provisions with primary emphasis given to the taxation of individuals and secondary emphasis afforded the taxation of other entities. Designed to provide accounting majors with the knowledge and skills required to successfully evaluate the specific income tax implications of various fact situations.

40003 SENIOR HONORS RESEARCH PAPER. 3 hours. *Prerequisites:* A business major and Honors Section of MANA 30153. Preparation of a research paper in the student's area of concentration in business under the direction of an assigned staff member.

40013 PROFESSIONAL ACCOUNTING INTERNSHIP. 3 hours. *Prerequisites:* A business major, senior standing and admission to the Mac Program. A full-time internship with a public accounting firm, corporation, or governmental agency allowing the student to gain professional experience that will help integrate the theory and practice of accounting.

40153 ADVANCED ACCOUNTING. 3 hours. *Prerequisites:* A business major, ACCT 30253, at least a "C" grade in ACCT 20153, 20163, 30153, and 30253 and senior standing. Intensive study of financial accounting focusing on special entity issues, such as proprietorships, partnerships, not for profit organizations, branch operations, and consolidation procedures, including foreign operations. (Fall)

40223 INFORMATION SYSTEMS AND CONTROL. 3 hours. *Prerequisites:* A business major, ACCT 30153, EBUS 20253, and EBUS 30253. At least a grade of "C" in each prerequisite course. Systems analysis methodology and current developments in computer-based management information systems. Special emphasis is placed on subsystems relating to accounting information and the concepts of internal control as they relate to the design and audit of accounting information systems. (Fall)

40970 SPECIAL PROBLEMS IN ACCOUNTING. (1-6 sem. hrs.) *Prerequisite:* A business major. This course may be repeated for credit.

BUSINESS (BUAD)

10013 CONTEMPORARY PERSPECTIVES IN BUSINESS. 3 hours. *Prerequisite:* Business majors with 54 or more hours must have the permission of the Chair of the Management Department to enroll in this course. Provides an overview of the theories, principles, practices and institutions that produce the goods and services and create most of the economic activity in modern societies.

40013 BUSINESS INTERNSHIP. 3 hours. *Prerequisites:* A business major and permission of instructor. Students gain practical exposure to business through participation in an internship in a business or community organization. Emphasis is placed on the development of applied skills in one or more of the business disciplines. Students learn about organizational realities and work demands.

DECISION SCIENCES (DESC)

20153 STATISTICAL ANALYSIS. 3 hours. *Prerequisite:* MATH 10283 or 10524. Basic statistical theory used in analysis and interpretation of numeric data. Topics covered include descriptions of frequency distributions, determination of discrete and continuous probabilities, estimation and tests of hypotheses, time series analysis, and regression and correlation analysis. 3

0153 INTRODUCTORY OPERATIONS MANAGEMENT. 3 hours. *Prerequisites:* DESC 20153 or equivalent and junior standing, or consent of the instructor. An introduction to the management of operations in manufacturing and services organizations. Examines the role of operations management in the production and distribution of goods and services, different types of production and service systems, various functional activities and decisions associated with the management of operations, and basic concepts and tools useful for decision making. Historical perspectives and emerging trends in operations management and its integration with the other functions are also covered.

30253 INTRODUCTORY OPERATIONS RESEARCH. 3 hours. *Prerequisites:* A business major, DESC 20153 and junior standing, or consent of instructor. Definition of business problems amenable to quantitative analysis. Topics covered include linear programming, transportation models, transshipment models, assignment models, sensitivity analysis, decision theory, inventory models, queuing, and forecasting techniques. Computer solutions to problems are considered.

30353 REGRESSION ANALYSIS. 3 hours. *Prerequisites:* A business major and DESC 20153 or equivalent. *Simple and multiple linear regression analysis.* Applications to business and economics. Additional topics include residual analysis, regression diagnostics, use of dummy variables, analysis of variance, and time series regression. Use of computer statistical packages is stressed.

40003 SENIOR HONORS RESEARCH PAPER. 3 hours. *Prerequisites:* A business major and Honors Section of MANA 30153. Preparation of a research paper in the student's area of concentration in business under the direction of an assigned staff member.

40970 SPECIAL PROBLEMS IN DECISION SCIENCE. (1-6 sem. hrs.) *Prerequisite:* A business major. This course may be repeated for credit.

50303 SAMPLING: DESIGN AND APPLICATIONS. 3 hours. *Prerequisites:* A business major and DESC 20153. Extension from simple random samples to designs based on clustering, stratification, and systematic selection of sample data used in estimation and test procedures applied to problems in marketing, auditing and other business fields.

ELECTRONIC BUSINESS (EBUS)

20253 E-Business I. 3 hours. *Prerequisite: Sophomore Standing.* Through lecture, hands-on, and interactive activities, this course examines the history, basics, tools, and other important issues surrounding the many forms of electronic commerce. The students develop skills and gain knowledge and experience with a networked community designed for business functions and transactions. (Required of all business majors) 20813 E-Business II. 3 hours. *Prerequisites: An e-business major and EBUS 20253 with a grade of "B" or better.* Students will cover such topics as security, privacy and legal issues. They will learn to start their own ebusiness and build a site for their own business and compare businesses in various industries. They will learn the how an ebusiness compares to and contrasts from a land-based business with a hands-on approach.

30813 E-Business PLANNING. 3 hours. *Prerequisites: An e-business major and EBUS 20813 with a grade of "B" or better.* Students will learn how to analyze a business, division, or department for a Web presence. They will investigate how the ebusiness fits into the traditional roles for a business or industry. They will consider how the Internet can impact the business. ROI, funding, and Internet stock valuation are important components of this course. Development of communication skills (face-to-face, one-on-one, group presentation, and written) are also important components of this course.

30253 INFORMATION TECHNOLOGY DEVELOPMENT AND TRENDS. 3 hours. *Prerequisites: A business major, EBUS 20253 with a grade of at least a "C" and ACCT 20163.* This course focuses on the planning, development and implications of business information systems. Emphasis is on information technology in a network environment.

30823 DATA FOR E-Business. 3 hours. *Prerequisites: An e-business major and EBUS 20813 with a grade of "B" or better.* Students will learn solid database principles. They will also be exposed to how data relates to ebusiness through such topics as data warehousing, use of consumer data for marketing, financial data available on the Internet, data and information reporting.

30833 E-Business DEVELOPMENT. 3 hours. *Prerequisites: An e-business major and EBUS 30813 with a grade of "C" or better; EBUS 30823 with a grade of "C" or better.* Students will use the results of the ebusiness analysis to design and implement a Web presence. They will learn traditional project management techniques in this process. They should look at several different system development methods possible with ebusiness applications: SDLC, RAD, JAD, etc. Team building, conflict, diversity, conflict resolution and other team issues are important components of this course.

30843 TELECOMMUNICATIONS. 3 hours. *Prerequisites: An e-business major and EBUS 30813 with a grade of "C" or better; EBUS 30823 with a grade of "C" or better.* Students will examine the technical telecommunications requirements for business communications and collaboration. This course provides experience with both local area networks and wide area networks with special emphasis on Internet network technology and the client/server architecture. An understanding of the people issues in networking is an important component of this course.

40013 PROFESSIONAL E-Business INTERNSHIP. 3 hours. *Prerequisites: An e-business major, senior standing, EBUS 30833 with a grade of "C" or better; EBUS 30843 with a grade of "C" or better.* A full-time internship with a corporation, a non-profit or governmental agency allowing the student to gain professional experience that will help integrate the theory and practice of Information systems. Internships must be approved by the department chair or another appointed designee.

40813 E-Business CONSULTANCY I. 3 hours. *Prerequisites: An e-business major and EBUS 30833 with a grade of "C" or better; EBUS 30843 with a grade of "C" or better.* This is the first of a two-course sequence (EBUS 40813 and EBUS 40823). The first course (EBUS 40813) would start the consultancy phases and complete the ebusiness analysis phase. While the students are building and implementing in the second semester, they will also be looking at current topics and trends in ebusiness. This two-semester approach will allow them the extra time needed to complete the entire process of creating a Web presence from beginning to end. Students will work in teams that will last the entire two semesters. There will be a focus on creativity, entrepreneurship, and using a team approach to develop creative ideas and observe the processes and factors crucial to a successful ebusiness. The topics and trends section of this course is expected to change as the ebusiness environment develops and changes itself. This approach provides the students with very current and complete experiences in ebusiness.

40823 E-Business CONSULTANCY II. 3 hours. *Prerequisites: An e-business major and EBUS 40813 with a grade of "C" or better.* Provides a more advanced inquiry into Electronic Business. This is a continuation of EBUS 40813. See EBUS 40813 for description of the two-semester course.

ENTREPRENEURIAL MANAGEMENT (MANA)

10533 MANA/10533 MARK INTERPERSONAL INFLUENCE IN BUSINESS. 3 hours. *Prerequisite: First semester freshman only.* Developing interpersonal influence skills for business. Includes coverage of interpersonal skills involved in personal selling, leadership, and management. Specific components include fundamentals of selling, the value of selling, making a sales presentation, leadership styles, building consensus, building commitment, team building, conflict resolution, negotiation, and ethical issues of interpersonal influence.

20153 LEGAL AND SOCIAL ENVIRONMENT OF BUSINESS. 3 hours. *Prerequisite: Sophomore standing. Legal and social aspects of business.* Legal aspects and social impacts of common business transactions. The course is designed to assist the future businessman in the design and implementation of policies within the legal and social framework and to create awareness of the government pitfalls which would require professional advice.

30153 ORGANIZATIONAL MANAGEMENT. 3 hours. *Prerequisite: Junior standing.* Tasks of the manager are studied in the context of his/her role as an administrative decision maker. Emphasis placed on understanding the organization as a system where the manager needs to examine a variety of variables in order to arrive at problem solutions. Management processes, system concepts, models for decision making, and behavioral concepts involving motivation, leadership, group activity, conflict and change are covered.

30203 HUMAN RESOURCE MANAGEMENT. 3 hours. *Prerequisites: A business major and MANA 30153 with a*

grade of at least "C". The philosophy and major questions of policy in human resource management. Specific techniques, including job analysis, recruitment, selection, equal employment opportunity, training, performance appraisals; discipline, compensation, collective bargaining, and industrial relations are introduced to illustrate current practice, and are related directly to questions of policy or objectives.

40003 SENIOR HONORS RESEARCH PAPER. 3 hours. *Prerequisites:* A business major and Honors Section of MANA 30153. Preparation of a research paper in the student's area of concentration in business under the direction of an assigned staff member.

40123 MANAGING THE EMERGING VENTURE. 3 hours. *Prerequisites:* A business major, ACCT 20153, ACCT 20163, FINA 30153, MARK 30153, MANA 30153. MANA 30153 with a grade of at least "C". Includes coverage of aspects involved in managing emerging entrepreneurial ventures and small businesses, including accounting, financial controls, management and human resource practices, marketing and customer development, production, service level quality, and legal issues.

40133 INTRODUCTION TO ENTREPRENEURSHIP. 3 hours. *Prerequisites:* A business major, FINA 30153, MARK 30153, and MANA 30153. MANA 30153 with at least a grade of "C". Offers a broad view of different entrepreneurial efforts from small business to venture capital-backed high growth potential ventures. Particular attention is focused on the generation of ideas for new businesses and establishing their feasibility. This course is a prerequisite for more advanced entrepreneurial studies.

40143 NEW VENTURE PLANNING. 3 hours. *Prerequisites:* A business major and MANA 40133 with at least a grade of "C". Students will work through the process of developing a business plan for an entrepreneurial venture. The focus is on feasibility assessment and preparing plans capable of attracting necessary financing for new entrepreneurial ventures.

40153 STRATEGIC MANAGEMENT. 3 hours. *Prerequisites:* A business major and senior standing. Final integrating course for the senior student. The policies and problems of management with respect to coordination of production, finance, marketing, human resources and accounting in a going concern under conditions of uncertainty.

40163 VENTURES IN TRANSITION. 3 hours. *Prerequisites:* A business major and MANA 40143 with at least a grade of "C". This course examines the changes likely to affect an entrepreneurial venture as it matures. The focus of the course is on how to effectively manage the growth of an entrepreneurial venture. Other implications of growth will also be discussed, such as changes in the strategy of the venture, performance downturns, sale or liquidation of the business, acquisition of another business, and initial public stock offerings.

40223 INTERNATIONAL MANAGEMENT. 3 hours. *Prerequisites:* A business major and MANA 30153 with a grade of at least "C". Cross-cultural management skills are key to understanding and managing differences and similarities within and between multinational enterprises in the contemporary world. Topics include culture, communication, politics, negotiations, and overseas assignments

40233 SKILLS FOR EFFECTIVE MANAGERS. 3 hours. *Prerequisites:* A business major and MANA 30153 with a grade of at least "C". A developmental approach to building skills essential for effective management in today's organizations and environment. This course will focus on cultivating such skills as team building, negotiation and conflict management, communication, personal productivity management, and other important competencies. Learning through active application and experiential exercises will be emphasized.

40773 LEADERSHIP. 3 hours. *Prerequisites:* A business major and MANA 30153 with grade of "C" or better. Changes in the business environment have underscored the vital role that effective leadership plays in not only helping organizations survive, but to be self-determining and prosperous as well. This course is designed to help students learn both about leadership and about how to be more effective as a leader of others.

40970 SPECIAL PROBLEMS IN MANAGEMENT. (1-6 sem. hrs.) *Prerequisite:* A business major. This course may be repeated for credit.

FINANCE (FINA)

10433 THE CONTEMPORARY INVESTOR. 3 hours. This freshman seminar will use contemporary issues to gain insights into investments and the financial environment. In addition to understanding the financial environment, personal investing will be used as a backdrop against which students will develop skills in communication, presentation, research, analysis, and reasoning

30153 FINANCIAL MANAGEMENT. 3 hours. *Prerequisite:* Two semesters of accounting and junior standing. Decision making in the financial environment. Emphasis on the acquisition and optimum management of funds. The relationship between financial management and economics, accounting, law and various functional areas of business is stressed. Working capital management, capital budgeting, short- and long-term financing, investment analysis and related topics.

30203 MONEY AND BANKING. 3 hours. *Prerequisites:* A business major, ECON 10223 and ECON 10233, or consent of instructor. Nature, function, and operations of our money and banking system. Modern monetary and banking theory, monetary policy, and their relationship to domestic and international economic and financial problems and issues. Also listed as Economics.

30213 INVESTMENTS I. 3 hours. *Prerequisites:* A business major, requires a score of > 85% on the TVM Proficiency Exam, FINA 30153 with a grade of at least "C." Investment management from the perspective of the individual investor. Financial analysis of stocks, bonds, and other financial instruments. An examination of the securities markets and the trade-off between risk and return. Attention to contemporary investment problems.

30233 INVESTMENTS II. 3 hours. *Prerequisites:* A business major and FINA 30213 with a grade of at least "C". A survey of the development and economic functions of options and futures and their markets. Includes development of pricing models, trading strategies, and portfolio management considerations.

30303 INSURANCE. 3 hours. *Prerequisites:* A business major and junior standing. Fundamentals of major types of insurance, including life, fire, accident and health, automobile, worker's compensation, transportation, and fidelity and surety bonds. Designed to acquaint the student with the general principles of insurance and their application to personal and business situations.

30313 REAL ESTATE PRINCIPLES. 3 hours. *Prerequisites:* A business major and junior standing. Introduction to real estate principles and practices, activities of real estate brokers and operators, transfer of real property and real estate securities, essentials of real estate law, practices incidental to ownership and control of real property.

30623 REAL ESTATE VALUATION. 3 hours. *Prerequisites:* A business major and FINA 30313 with a grade of at least "C" or consent of instructor. Theory, methods and principles of valuation; cost, market and income approaches to value; the appraisal process applied both to residential and commercial property.

40003 SENIOR HONORS RESEARCH PAPER. 3 hours. *Prerequisites:* A business major and Honors Section of MANA 30153. Preparation of a research paper in the student's area of concentration in business under the direction of an assigned staff member.

40153 ADVANCED FINANCIAL MANAGEMENT. 3 hours. *Prerequisites:* A business major, FINA 30203 FINA 30233, and ACCT 30253 (FINA 30233 and ACCT 30253 may be taken concurrently with FINA 40153). An advanced course in the application of the theory of corporate finance to real problems in business. Taught primarily by the case method, topics include financial analysis and planning, forecasting the financial needs of a firm, capital expenditure analysis, capital structure and distribution policies, merger and acquisition analysis, and corporate restructuring. Emphasis is placed on the effects of the firm's financial and operating decisions on the value of the firm's securities in financial markets.

40183 EDUCATIONAL INVESTMENT FUND. 3 hours. *Prerequisites:* A business major, FINA 30153 and FINA 30213. Admission by approval of the Dean of the Neeley School. Participation in the operation of the Educational Investment Fund student-managed investment portfolio.

40193 EDUCATIONAL INVESTMENT FUND. 3 hours. *Prerequisites:* A business major, FINA 40183. Admission by approval of the Dean of the Neeley School. Participation in the operation of the Educational Investment Fund student-managed investment portfolio.

40313 MANAGEMENT OF FINANCIAL INSTITUTIONS. 3 hours. *Prerequisites:* A business major, FINA 30153 and FINA 30203 with a grade of at least "C" in each course or consent of instructor. Problems of commercial banks and financial institutions, primarily from the perspective of the management of an individual institution, with emphasis on formulating appropriate policies concerning the asset, liability, and capital management of the firm.

40603 REAL ESTATE LAW. 3 hours. *Prerequisites:* A business major, MANA 20153 and FINA 30313 with a grade of at least "C" in each course or consent of instructor. Acquisition and transfer of property; rights of adjoining owners; mortgages and liens; abstracts of title; recording; drafting of deeds, leases, mortgages, options. Especially for real estate salesmen and brokers, owners, tenants.

40613 REAL ESTATE FINANCE AND INVESTMENT ANALYSIS. 3 hours. *Prerequisites:* A business major and FINA 30153 with a grade of at least "C" or consent of instructor. Investment value based on the present value of expected cash flows. Includes computer applications, the current income tax laws for real estate, mortgage law, sources of real estate credit including primary and secondary markets, government programs, and mortgage loan underwriting.

40623 INTERNATIONAL FINANCE. 3 hours. *Prerequisites:* A business major, FINA 30153 and FINA 30203 with a grade of at least "C" in each course or consent of instructor. The international monetary system; speculation, hedging and arbitrage in foreign exchange and financial markets; financial management of the multinational firm; Eurocurrency and capital markets; and international banking.

40970 SPECIAL PROBLEMS IN FINANCE. (1 - 6 sem. hrs.) *Prerequisite:* A business major. This course may be repeated for credit.

MARKETING (MARK)

10533 MANA/10533 MARK INTERPERSONAL INFLUENCES IN BUSINESS. 3 hours. *Prerequisite:* First semester freshmen only. Developing interpersonal influence skills for business. Includes coverage of interpersonal skills involved in personal selling, leadership, and management. Specific components include fundamentals of selling, the value of selling, making a sales presentation, leadership styles, building consensus, building commitment, team building, conflict resolution, negotiation, and ethical issues of interpersonal influence.

30153 MARKETING MANAGEMENT. 3 hours. *Prerequisite:* Sophomore standing. The processes in our society by which needs and wants of consumers are anticipated and satisfied. An examination of a systems approach to and analysis of the movement of products from the point of production to the point of consumption.

30233 MARKET BEHAVIOR AND ANALYSIS. 3 hours. *Prerequisites:* A business major and a grade of "C" or higher in MARK 30153. Explores topics related to understanding market factors that influence marketing decisions. The course covers issues related to demand estimation, industry sales forecasting, competition analysis, organizational buying and consumer buying.

30253 SELLING AND SALES MANAGEMENT. 3 hours. *Prerequisites:* A business major and a grade of "C" or higher in MARK 30153. An examination of the basic principles involved in personal selling and the administration of this function in the organization. Emphasis is placed on the sales executive's job, the duties and responsibilities, and the various roles played as an important participant in the making of marketing decisions.

40003 SENIOR HONORS RESEARCH PAPER. 3 hours. *Prerequisites:* A business major and Honors Section of MANA 30153; MARK 30153 with a grade of at least "C". Preparation of a research paper in the student's area of

concentration in business under the direction of an assigned staff member.

40113 MARKETING RESEARCH. 3 hours. *Prerequisites:* A business major, a grade of "C" or higher in MARK 30153; DESC 20153. Obtaining market information; orientation in use of information gathered; role of management in initiating market studies and in defining problems; types of research; research design; questionnaire construction; sampling; analysis; motivation research; and product research.

40123 MARKETING PLANNING. 3 hours. *Prerequisites:* A business major, a grade of "C" or higher in MARK 30153, MARK 30233. An advanced course in the management of the marketing program. Emphasis is placed on marketing planning, implementation and control. Products (goods and services), distribution, price and promotion decisions are examined. Decision analysis concepts are applied using examples and application exercises. The course integrates the various activities of an organization that are used to gain competitive advantage by achieving higher levels of customer satisfaction.

40203 MARKETING STRATEGY. 3 hours. *Prerequisites:* A business major, a grade of "C" or higher in MARK 30153 and successful completion of MARK 30233, MARK 40123 or concurrent enrollment in MARK 40123; senior standing. Taught primarily through case analysis, the emphasis is on the analysis, planning, implementation and control of marketing systems, policies, programs and actions in domestic and international settings. (May be taken concurrently with MARK 40123.)

40213 INTERNATIONAL MARKETING. 3 hours. *Prerequisites:* A business major, a grade of "C" or higher in MARK 30153; MARK 30233 or concurrent enrollment in MARK 30233. This course introduces the field of international marketing and provides a broad perspective from which to explore and examine various aspects of what changes when firms compete internationally. Half the course focuses on unique aspects of the international marketing environment; half concentrates on how the marketing mix is affected by the globalization of markets and competitors.

40223 SERVICES MARKETING. 3 hours. *Prerequisites:* A business major, a grade of "C" or higher in MARK 30153; and senior standing. The primary objective of this course is to prepare students to be successful marketers in an increasingly service-oriented economy. The course is designed to help students understand the unique characteristics of services, the marketing challenges created by these characteristics, and effective ways to address these challenges. Examines marketing strategies unique to public and private, for-profit and not-for-profit services marketing organizations.

40303 PRINCIPLES OF RETAILING. 3 hours. *Prerequisites:* A business major and a grade of "C" or higher in MARK 30153. Operation of retail stores with particular attention to store location, arrangement, merchandise classification, store organization, personnel, buying, selling, and controlling stock, operating activities, expense control, budgeting, and problems of general policy.

40700 MARKETING STUDY ABROAD. 3 hours. *Prerequisites:* A business major, MARK 30153 and permission of instructor. An intensive, on-site study of marketing practices abroad. Sites include Europe and Mexico. This course may be repeated for credit.

40970 SPECIAL PROBLEMS IN MARKETING. 1-3 hours. *Prerequisites:* A business major, a grade of "C" or higher in MARK 30153; overall and major GPA of 2.5 or higher; permission of instructor and chairperson. This course may be repeated for credit.

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Bachelor of Business Administration Degree Program

[University Curriculum Requirements](#)

[The Upper Division Business Core Courses](#)

Admission to the Neeley School. To become a business major, all students must formally apply for admission to the Neeley School. Admission is competitive and is not guaranteed. Students will typically apply in their sophomore year for admission to upper-level courses (30000-level or above except MARK 30153) in their junior year. All TCU students, or students transferring to TCU who wish to become pre-business students or business majors, must contact the Neeley Student Resource Center (NSRC) regarding admissions policies, procedures, and deadlines.

1. Declaring Pre-Business. All students wishing to become business majors should first declare themselves "pre-business" students. Students remain pre-business students until being formally admitted to the Neeley School. Before taking upper-division (30000-level or above except MARK 30153) business courses, all pre-business students must:

- a. complete the Lower Division Sequence Requirements (see below),
- b. maintain a TCU cumulative GPA of at least 2.50 (see below),
- c. pass the Neeley School's computer skills test (see below), and
- d. be formally admitted to the Neeley School. Contact the NSRC regarding admissions policies, procedures and deadlines.

2. Declaring a Business Major. After being admitted, students become "business" majors and may then select one of the functional area majors: Accounting, E-Business, Entrepreneurial Management, Finance (or Finance with a Real Estate Concentration), or Marketing. Please note that there is a separate, earlier application procedure for the E-Business major. Contact the NSRC regarding admissions policies, procedures, and deadlines.

3. Changing your major to business. Current TCU students who wish to change their major to business are expected to meet all degree requirements and should first become a pre-business student. Upon completion of the pre-business student requirements (described above), they may then formally apply for admission to the Neeley School to become a business major. Contact the NSRC regarding admissions policies, procedures, and deadlines.

4. Transfer students. Transfer students must first become pre-business students. Approval is not automatic, and admission to TCU does not guarantee the student admission as a pre-business student. Transfer students should first work with the NSRC to gain approval to become a pre-business student. Contact the NSRC regarding transfer credits and specific transfer student requirements and guidelines. The transfer student must complete at least 1 full semester at TCU as a pre-business student before becoming a business major. Students must apply to be business majors. Admission is competitive and approval is not automatic. Upon acceptance into the Neeley School as a business major, the student may begin taking Upper Division Business courses. Transfer students are expected to meet all degree requirements. Please see the Transfer Policies section listed under Academic Policies.

5. TCU cumulative GPA of 2.50 required for admission. A TCU cumulative GPA of at least 2.50 is required, but does not guarantee, admission to the Neeley School. Furthermore, since a 2.50 TCU cumulative GPA is required for graduation with a BBA in Business, any pre-business student or business major whose GPA falls below 2.50, and who wishes to continue enrollment in business courses, must appeal to the Associate Dean of the Neeley School. Please see the Academic Review section listed under Academic Policies.

6. Computer Skills Test. Before applying for admission to the Neeley School, all pre-business students must have already passed a required computer skills test. However, passing this test does not guarantee admission. For information about this test, please contact the NSRC.

ALL TCU STUDENTS

Entering Freshmen

Declare Pre-Business

Begin taking Lower Division Sequence Requirements

Sophomores

Formally apply for admission to the Neeley School. Obtain application from the Neeley Student Resource Center

Must have a 2.50 minimum TCU cumulative GPA

Must have passed Computer Skills Test

See the NSRC for other requirements.

Usually Juniors

Admitted to the Neeley School

Declare a Major in: Accounting, E-Business, Entrepreneurial Management, Finance or Marketing

Begin Upper Division Business Core Courses

Seniors

Complete Upper Division Business Core Courses

Complete Major Course Requirements

MANA 40153 -- Must be taken last 2 semesters Seniors

Transfer Students

Declare Pre-Business
Begin taking Lower Division Sequence Requirements

Transfer Students who have completed at least 1 semester at TCU

Formally apply for admission to the Neeley School.
Obtain application from the Neeley Student Resource Center.

Must have a 2.50 minimum TCU cumulative GPA
Must have passed Computer Skills Test
See the NSRC for other requirements.

Usually Juniors

Admitted to the Neeley School

Declare a Major in: Accounting, E-Business, Entrepreneurial Management, Finance or Marketing
Begin Upper Division Business Core Courses Seniors
Complete Upper Division Business Core Courses
Complete Major Course Requirements
MANA 40153 Must be taken last 2 semesters

Components of the BBA Degree.

The BBA degree in the Neeley School is composed of four blocks of coursework.

Pre-Business:

A. University Curriculum Requirements (UCR)
B. Lower Division Sequence Requirements

Business Majors:

C. Upper Division Business Core Courses
D. Major Course Requirements (varies by major, see The Neeley School Major Programs section; writing emphasis)
E. Free Electives

A. University Curriculum Requirements (47 semester hours) Students seeking a Bachelor of Business Administration degree must fulfill all of the University Curriculum Requirements listed below:

I. Foundations: 9 semester hours.

- a. Writing: 6 hours (ENGL 10803, 20803)
 - b. Mathematics: 3 hours (MATH 10283 or 10524)*
- *Credit is not allowed for both MATH 10283 and MATH 10524

II. Explorations: 36 semester hours. For Explorations **a.** through **e.** below, students may only earn a maximum of 6 hours from any one department. (i.e. 6 hrs. BIOL, POSC, HIST, SPAN, etc.)

- a. Physical and Life Sciences: minimum of 6 hours, 6 hours must be in laboratory courses
- b. Social Sciences: minimum of 6 hours to include macroeconomics and microeconomics
- c. Cultural Heritage: minimum of 12 hours

1. Religion Studies: minimum of 3 hours
2. Historical Studies: minimum of 3 hours
3. Critical Inquiry: minimum of 3 hours
4. Fine Arts: minimum of 3 hours

- d. Language and Literature: minimum of 6 hours (Foreign Language or Oral Communication)

1. Foreign Language: minimum of 6 hours, or
2. Oral Communication and Literature: minimum of 6 hours
(Oral Communication: minimum of 3 hours)
(Literature: minimum of 3 hours)

- e. Exploration Options: minimum of 6 hours. Students must take 2 courses from the following 4 areas. Both courses cannot be from the same area.

1. Physical Science or a different Physical Science with Lab
2. Social Science other than an ECON
3. Religion, Historical Studies, Critical Inquiry, Fine Arts, or U.S. Historical Studies
4. Oral Communication, a different Foreign Language, or Literature

Please recall, that for Explorations, students may only earn a maximum of 6 hours from any one department. So, for example, in 1. through 4. above, a student who has already taken 6 hours of biology for their physical/life science requirements, may not take another biology course to fulfill their exploration options requirement.

III. Physical Education Requirements: 2 semester hours.

- a. One (1), 1 semester hour PE Activity and one (1), 1 semester hour PE Health Concepts, or
- b. Two (2), 1 semester hour PE Health Concepts

With the exception of the **Lower Division Sequence Requirements**, students are not expected to complete one entire group or block of courses prior to proceeding to the next block. Instead, the courses are woven together into an integrated sequence of learning steps.

B. Lower Division Sequence Requirements (30 semester hours) Lower Division Sequence Requirements must be completed by the end of the sophomore year, and before beginning Upper Division Business Core courses (30000-level or above except MARK 30153)

Lower Division Sequence Requirements:

1) Successful completion of the 10 required courses:
ENGL 10803 Introductory Composition (UCR)
ENGL 20803 Intermediate Composition (UCR)
ECON 10223 Introductory Microeconomics (UCR)
ECON 10233 Introductory Macroeconomics (UCR)
*MATH 10283 Introductory Applied Calculus (UCR) or
MATH 10524 Calculus I (UCR)
** EBUS 20253 EBUS I (Business Core)
MANA 20153 Legal and Social Environments of Business (Business Core)
ACCT 20153 Principles of Financial Accounting (Business Core)
ACCT 20163 Principles of Managerial Accounting (Business Core)
DESC 20153 Statistical Analysis (Business Core)

* Credit will not be awarded for both MATH 10283 and MATH 10524.

** COSC 10203 is not a substitute for EBUS 20253 and can only be used for free elective credit toward a BBA degree.

2) Attainment of a minimum grade point average of 2.50 in the Lower Division Sequence Requirements courses, with at least of "C" average in two English composition courses.

3) Attainment of a TCU cumulative GPA of at least 2.50 at the end of the sophomore year, defined by the University as the semester or term in which the 53rd semester hour is completed; and

4) Completion of a tentative plan for graduation to be filed with appropriate forms in the NSRC

C. Upper Division Business Core Courses

The Upper Division Business Core Courses (30000-level or above except MARK 30153, see inset next page) are interwoven with the major courses throughout the student's junior and senior years. Business students complete MANA 40153 course, during the last 2 semesters.

Upper Division Business Core Courses

DESC 30153 Introductory Operations Management
MANA 30153 Organizational Management
MARK 30153 Marketing Management
FINA 30153 Financial Management
EBUS 30253 Information Technology Development and Trends (not required for E-Business majors)
MANA 40153 Strategic Management Must be taken last 2 semesters

D. Major Course Requirements (18-24 semester hours)

1. Each major, Accounting, E-Business, Entrepreneurial Management, Finance (Finance with a Real Estate Concentration), and Marketing, has a different set of major course requirements. These are described in detail in the Neeley School Major Programs section below.

2. Students must take 6 hours of Writing Emphasis courses in their major, with the exception of the Finance major which requires 9 hours. Writing Emphasis courses are designated in the Neeley School of Business Major Programs section below.

E. Free Electives (20-26 semester hours)

Each major has different free elective requirements. For example, Accounting majors have 20 hours of free electives, while Marketing majors have 26 hours of free electives. Please see the Neeley School Major Programs section below for the free elective requirements for each major in the Neeley School.

Since a 2.50 TCU cumulative GPA is required for graduation with a BBA in Business, any pre-business student or business major whose GPA falls below 2.50, and who wishes to continue enrollment in business courses, must appeal to the Associate Dean of the Neeley School. Please see the Academic Review section listed under Academic Policies.

[Courses of Instruction](#)

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Accounting

Accounting has been called "the language of business." In fact, it is much more. Managers of nearly all organizations, whether business, not-for-profit, or governmental, require accounting information to operate successfully. Financial statements prepared by accountants are used by individuals outside of these organizations to evaluate the performance of management and to make investing, lending, regulatory, and other decisions. Accounting majors are well versed in the preparation, use, and limitations of accounting information and understand business at a very fundamental level. Moreover, they offer knowledge and skills that most organizations require.

A major objective of the BBA program is to provide basic conceptual accounting and business knowledge as a foundation for accounting and business career development. Candidates for the Uniform CPA Examination in Texas must fulfill additional educational requirements. The Master of Accountancy (MAc) degree offered by the Neeley School meets those requirements and is designed for students planning for careers in public accounting or other professional accounting careers.

Major Course Requirements (24 semester hours)

Specific course requirements

18 semester hours

ACCT 30153 Intermediate Financial Accounting I
ACCT 30163 Cost Accounting
ACCT 30253 Intermediate Financial Accounting II
ACCT 30303 Introduction to Federal Taxation
ACCT 40153 Advanced Accounting
ACCT 40223 Information Systems and Control

In addition, the student must complete 3 semester hours from the following:

ECON 30223 Intermediate Microeconomics
ECON 30233 Intermediate Macroeconomics
ECON 40153 Economics of Financial Markets
FINA 30203 Money and Banking
FINA 40153 Advanced Financial Management

and 3 semester hours from the following:

DESC 30353 Regression Analysis
ECON 50343 Econometrics

Free Electives 20 semester hours of elective courses to equal 124 hours for the BBA (at least 12 of which must be nonbusiness, non-economics).

Texas law requires CPA candidates to complete 150 credit hours of academic work including 36 credit hours of accounting. In response to this change, the Neeley School has developed the Master of Accountancy (MAc) degree, which can be completed in one year. Undergraduate accounting majors interested in professional certification are encouraged to apply for admission to this program at the end of their junior year. For more information, see the Neeley School Accounting Department.

[Courses of Instruction](#)

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Electronic Business

Information systems, particularly those involved in Electronic Business, have become a critical part of the products, services and management of organizations. The effective and efficient use of information technology is an important element in achieving competitive advantages for business organizations and excellence in services for government and non-profit organizations. Furthermore, the globalization of trade, the emergence of information economies and the growth of the Internet and other global communications networks have recast the role of information systems in business and management. Companies can use information technology to design global business organizations linking factories, offices, and mobile sales forces around the world and around the clock. The Internet is becoming the foundation for new business models, new business processes, and new ways of distributing knowledge. Students who major in E-Business will have the ability to develop, implement and manage an infrastructure of information technology, data and organization-wide systems. They will also have the skills to manage, analysis and develop applications dealing with electronic business, and they will be able to assist in incorporating information technology into the organization's strategy, planning, and practices.

Due to the limited space in the E-Business major, acceptance into the program is by application only.

E-Business is a lock-step program that requires 2_ years to complete. If accepted into the E-Business program, students begin course work in the E-Business major in the spring of their sophomore year. Please see the NSRC for additional information.

Major Course Requirements (24 semester hours)

Specific Course Requirements

EBUS 20813 E-Business II
EBUS 30813 E-Business Planning
EBUS 30823 Data for E-Business
EBUS 30833 E-Business Development
EBUS 30843 Telecommunications
EBUS 40013 Professional E-Business Internship (Writing Emphasis)
EBUS 40813 E-Business Consultancy I
EBUS 40823 E-Business Consultancy II (Writing Emphasis)

Free Electives: 23 semester hours of elective courses to equal 124 total hours for the BBA; at least 6 hours must be upper division unless upper division courses are taken in the University Curriculum; at least 9 hours must be in non-business, non-economics courses.

[Courses of Instruction](#)

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Entrepreneurial Management

The Entrepreneurial Management major offers a unique combination of specialization and generalization in the study of management. Nearly all forms of activity in profit and non-profit organizations involve some form of management. Whether it be managing people, money, information systems, raw materials or finished products, managers are required to make a multitude of decisions on a daily basis. The Entrepreneurial Management major explores the people aspect of business and the range of skills employed by today's managers and entrepreneurs, including strategic planning, communication and conflict resolution, team building, creative problem solving, leadership, entrepreneurship, business plan development and implementation, managing small business growth, human resource management, law, and business ethics. Career opportunities for management are among the most diverse because virtually every type of business requires management skills and understanding.

Major Course Requirements (18 semester hours)

Specific course requirements

MANA 30203 Human Resource Management (Writing Emphasis)
MANA 40133 Introduction to Entrepreneurship (Writing Emphasis)
MANA 40223 International Management

In addition, the student must complete 9 semester hours from the following elective courses in Entrepreneurial Management:

MANA 40123 Managing the Emerging Venture
MANA 40143 New Venture Planning
MANA 40163 Ventures in Transition
MANA 40233 Skills for Effective Managers
MANA 40773 Leadership
MANA 40970 Special Problems in Management

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Finance

A finance major concentrates on the management of financial resources for the firm or for the investment portfolio. The field of finance integrates concepts from economics, accounting, and a number of other areas. The central focus of finance is the relationship of risk and return.

Financial managers attempt to achieve wealth maximization through daily activities such as credit and inventory management and through longer-term decisions related to raising funds and allocating capital. Investment specialists evaluate and select securities, manage investment portfolios, and raise capital to finance business, government, and private needs.

TCU students can apply for a position on the Educational Investment Fund and, if selected, can gain valuable investment experience working with approximately 18 fellow students to manage a \$2 million portfolio of stocks and bonds.

The trend toward the securitization of financial assets and real estate, international financial transactions, and derivative products such as options and futures continues to generate new job opportunities in finance.

Finance careers include corporate financial management, commercial banking, investment brokerage, portfolio management, investment banking, and insurance to name a few.

Finance Major Major Course Requirements (21 semester hours)

Specific course requirements
18 semester hours

FINA 30203 Money and Banking (Writing Emphasis)
FINA 30213 Investments I* (Writing Emphasis)
FINA 30233 Investments II
FINA 40153 Advanced Financial Management
ACCT 30153 Intermediate Financial Accounting I
ACCT 30253 Intermediate Financial Accounting II

In addition, the student must complete 3 semester hours from the following:

FINA 30303 Insurance
FINA 30313 Real Estate Principles
FINA 30623 Real Estate Valuation
FINA 40183 Educational Investment
Fund FINA 40313 Management of Financial Institutions
FINA 40613 Real Estate Finance and Investment Analysis
FINA 40623 International Finance
FINA 40633 Investment Practicum
ACCT 30303 Introduction to Federal Taxation

*Registration for FINA 30213, Investments I, requires a grade of 85% or better on the Time Value of Money (TVM) Proficiency Exam. Contact the Finance and Decision Science Department Administrative Assistant for the times and locations of the TVM exam. In order to enroll in FINA 30213, all business students must obtain a Closed Class Permit from the Finance and Decision Science Department Administrative Assistant, which will be granted only to students who have passed the TVM with a grade of 85% or better.

Free Electives: 23 semester hours of elective courses to equal 124 total hours for the BBA; at least 3 hours must be upper division unless an upper division course is taken in the University Curriculum; at least 12 must be in nonbusiness, non-economics courses.

Finance Major (With a Real Estate Concentration)

Students may also major in Finance with a Real Estate concentration. Career opportunities exist in banking, mortgage lending, real estate development, asset management, appraisal, real estate management, and brokerage.

Major Course Requirements (24 semester hours)

Specific course requirements
24 semester hours

FINA 30203 Money and Banking (Writing Emphasis)
FINA 30213 Investments I* (Writing Emphasis)
FINA 30233 Investments II
FINA 40153 Advanced Financial Management
FINA 30313 Real Estate Principles
FINA 30623 Real Estate Valuation
FINA 40613 Real Estate Finance and Investment Analysis
ACCT 30153 Intermediate Financial Accounting I

*Registration for FINA 30213, Investments I, requires a grade of 85% or better on the Time Value of Money (TVM) Proficiency Exam. Contact the Finance and Decision Science Department Administrative Assistant for the times and

locations of the TVM exam. In order to enroll in FINA 30213, all business students must obtain a Closed Class Permit from the Finance and Decision Science Department Administrative Assistant, which will be granted only to students who have passed the TVM with a grade of 85% or better.

Free Electives: 20 semester hours of elective courses to equal 124 total hours for the BBA; at least 12 must be in nonbusiness, non-economics courses.

[Courses of Instruction](#)

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Marketing

Today, diverse corporations in the telecommunications, financial, food service, and manufacturing industries all have at least one thing in common. These sellers want to exchange their goods, services, or ideas for something of value from buyers. Marketing begins at the moment that an organization perceives an unmet need, and progresses through product development, promotion, distribution and pricing. Marketing research suggests that one half the cost of most products and services can be attributed to marketing.

Major Course Requirements (18 semester hours)

Specific course requirements

15 semester hours

MARK 30233 Market Behavior and Analysis (Writing Emphasis)

MARK 30253 Selling and Sales Management

MARK 40113 Marketing Research

MARK 40123 Marketing Planning

MARK 40203 Marketing Strategy (Writing Emphasis)

In addition, the student must complete 3 semester hours of marketing electives from the following:

MARK 40213 International Marketing

MARK 40223 Services Marketing

MARK 40303 Principles of Retailing

MARK 40700 Marketing Study Abroad

MARK 40970 Special Problems in Marketing

Free Electives: 26 semester hours of elective courses to equal 124 total hours for the BBA; at least 6 hours must be upper division unless upper-division courses are taken in the University Curriculum; at least 12 hours must be in nonbusiness, non-economics courses.

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A BBA with an International Emphasis

[Neeley School Courses](#)
[International Awareness Courses](#)
[Language Proficiency](#)
[Experiential Component](#)
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Business students may complement their major in Accounting, E-Business, Entrepreneurial Management, Finance, (Finance with Real Estate Emphasis), and Marketing by designating **an International Emphasis** and satisfying the goals and requirements of the International Emphasis program. The program provides a structure to recognize students who have achieved a unique combination of experience, academic coursework, and international skills resulting in a cross-cultural competency. Students may receive a BBA degree in Accounting, E-Business, Entrepreneurial Management, Finance, (Finance with Real Estate Emphasis), or Marketing with an international emphasis. A special designation will be placed on the transcript of those students successfully completing the requirements of the program. The international emphasis may not be added to majors outside of the Neeley School.

Part I: Neeley School Courses (at least 6 semester hours)

Required: 6 hours from the following courses (3 of the 6 hours must be FINA 40623, MANA 40223, or MARK 40213, depending on the student's major.)

FINA 40623 International Finance

MANA 40223 International Management

MARK 40213 International Marketing

Part II: International Awareness Courses (at least 9 semester hours)

A minimum of 3 semester hours from each of the following three groups of courses:

Economics either ECON 50123, ECON 50133, or ECON 50443

Geography either GEOG 10003 or GEOG 30503

At least 1 course from the following:

Political Science POSC 20303, POSC 30303, or POSC 30503

Journalism JOUR 40543

Part III: Language Proficiency

1. The student must be proficient in at least one language other than English. For students whose primary language is English, proficiency in a second language must be demonstrated through successful completion of 18 semester hours of coursework in one language or the maximum hours offered in one language or equivalent proficiency as approved by their department chair.
2. For students whose second language is other than those taught at TCU, students should work with their department chair to determine a method of demonstrating proficiency.
3. For students whose primary language is not English, proficiency in both their primary and secondary languages must be demonstrated. Students should work with their department chair to determine a method of demonstrating proficiency in their primary language. Completion of the English courses required in the UCR or their equivalents will be sufficient to demonstrate proficiency in their secondary language of English.

Part IV: Experiential Component

1. Students working toward an international emphasis will be required to obtain significant experience in a foreign culture. A combination of study, work, or living abroad may be used to satisfy the requirement. While there is no specific time requirement, students must demonstrate to the major department chair or designated faculty advisory committee focused involvement in a foreign culture.
2. The experiential component may be waived for foreign students.

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Minors And Double Majors In Business

Minors And Double Majors In Business For Business Majors

Minors Outside of the Neeley School

Business students are not required to have a minor but may obtain one outside the M.J. Neeley School of Business by completing the requirements outlined by the department in which the minor is offered. Students should check with the Neeley Student Resource Center to see if any additional paperwork is required.

Minor in Accounting

Students majoring in business may pursue an accounting minor. The goal of the minor is to provide a secondary area of expertise for students majoring in E-Business, Entrepreneurial Management, Finance, (Finance with Real Estate Emphasis), or Marketing. By combining one of these majors with a minor in accounting, the student is prepared for a greater number of career opportunities and gains more flexibility. In addition, students majoring in other areas of business sometimes take electives in accounting. The designation of an accounting minor provides such students with additional evidence of subject matter expertise. The minor in accounting requires 18 semester hours of coursework. Once a student matriculates at TCU, all coursework in the accounting minor must be completed at TCU.

Required Courses: 18 semester hours

ACCT 20153 Principles of Financial Accounting
ACCT 20163 Principles of Managerial Accounting
ACCT 30153 Intermediate Financial Accounting I
ACCT 30163 Cost Accounting
ACCT 30253 Intermediate Financial Accounting II
ACCT 30303 Introduction to Federal Taxation

Minimum GPA: To graduate with a minor in accounting, students must obtain a minimum GPA of 2.50 in courses making up the minor.

Minor in Finance

Students majoring in business may pursue a finance minor. The goal of the minor is to provide a secondary area of expertise for students majoring in Accounting, E-Business, Entrepreneurial Management, or Marketing. By combining one of these majors with a minor in finance, the student is prepared for a greater number of career opportunities and gains more flexibility. In addition, students majoring in other area of business sometimes take electives in finance. The designation of a finance minor provides such students with additional evidence of subject matter expertise.

The minor in finance requires 18 semester hours of coursework. Once a student matriculates at TCU, all coursework in the finance minor must be completed at TCU.

Required Courses: 18 semester hours

FINA 30153 Financial Management
FINA 30203 Money and Banking
FINA 30213 Investments I*
ACCT 30153 Intermediate Financial Accounting I

In addition, the student must complete 6 semester hours of finance electives from the following:

FINA 40153 Advanced Financial Management
FINA 30233 Investments II
FINA 40183 Educational Investment Fund
FINA 40193 Educational Investment Fund
FINA 40623 International Finance
FINA 40613 Real Estate Finance and Investment Analysis

*Registration for FINA 30213, Investments I, requires a grade of 85% or better on the Time Value of Money (TVM) Proficiency Exam. Contact the Finance and Decision Science Department Administrative Assistant for the times and locations of the TVM exam. In order to enroll in FINA 30213, all business students must obtain a Closed Class Permit from the Finance and Decision Science Department Administrative Assistant, which will be granted only to students who have passed the TVM with a grade of 85% or better.

Minimum GPA: To graduate with a minor in Finance, students must obtain a minimum GPA of 2.50 in courses making up the minor.

Double Majors

Accounting majors can double major in Finance by taking three additional courses:

FINA 30213 Investments I
FINA 30233 Investments II
FINA 40153 Advanced Financial Management provided they elect FINA 30203 Money and Banking to fulfill an elective requirement imposed by Accounting and ACCT 30303, Introduction to Federal Taxation, to fulfill the one course elective requirement for Finance.

Finance majors can double major in Accounting by taking three additional courses:

ACCT 30163 Cost Accounting

ACCT 40153 Advanced Accounting (Writing Emphasis)

ACCT 40223 Information Systems and Control provided they take ACCT 30303, Introduction to Federal Taxation, to fulfill the one course elective requirement for Finance.

A business student may earn an additional Bachelor degree in a field outside of the Neeley School by completing the requirements outlined by the University under "Additional Bachelor's Degree" in the Bachelor's Degree section of this Bulletin.

[Courses of Instruction](#)

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General Business Minor For Non-Business Majors

Students completing majors outside of the Neeley School may pursue a General Business minor. The goal of the General Business minor is to provide students in other disciplines with a broad base of knowledge about the business world by giving them an understanding and appreciation of business and its social and ethical environment. In addition, through introductory courses in the functional areas of business, the students are introduced to the rudimentary tools used in business settings to analyze problems and make decisions.

The General Business minor requires 18 semester hours of coursework. Once a student matriculates at TCU, all coursework in the General Business minor must be completed at TCU.

Required Courses: 18 semester hours

ACCT 20153 Principles of Financial Accounting
ACCT 20163 Principles of Managerial Accounting
MANA 20153 Legal and Social Environment of Business
FINA 30153 Financial Management
MANA 30153 Organizational Management
MARK 30153 Marketing Management

Recommended Courses:

BUAD 10013 Contemporary Perspectives in Business
EBUS 20253 E-Business I

Minimum GPA and Computer Skills Test:

To graduate with a general business minor, students must obtain a minimum GPA of 2.50 in courses making up the minor, and pass the required Computer Skills Test. For information about the Computer Skills Test, please contact the NSRC.

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College of Communication

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As we venture into the 21st Century, the role of communication continues to be a vital and integral part of the university's educational mission. Today, more than 800 students concentrate their studies within the three departments that are part of the new configuration of the University: The College of Communication. Degree programs are available in Journalism, Speech Communication, and Radio-TV-Film. The academic programs of the college exact an appropriate balance between professional training and liberal arts studies. Personal counseling and relatively small classes allow the faculty to give attention to the work of each student.

Degrees Offered

Bachelor of Arts degree with a major in Journalism, Radio-Television-Film, or Speech communication. (The Bachelor of Arts degree requires completion of sophomore-level foreign language).

Bachelor of Science degree with a major in Speech Communication, Radio-Television-Film, or Journalism.

3/2 B.A., B.S./MBA Program in Business

The College of Communication and M.J. Neeley School of Business offer a combined degree in Journalism, Radio-TV-Film, or Speech and a master's degree in Business Administration (MBA). The Three-Two Program, as it is called, takes five years to complete.

Students interested in the program spend the first three years in the College of Communication completing the University Curriculum Requirements (including MATH 1283) and meeting the requirements of their major field. During the third year of study, application is made to the MBA program. To be considered for admission, applicants must have completed, or anticipate completing by the end of the third year, a minimum of 100 hours in non-business courses and finished all major requirements and core requirements. Applicants must submit the usual application materials, including scores from the Graduate Management Admission Test (GMAT), and must present above-average academic records.

If admitted, a student enters the MBA phase of the Three-Two program in the fourth year of study at TCU. The first year of the MBA, comprising of 24 credit hours, meets the minor requirements of the undergraduate degree. After successful completion of the first year of the MBA program, the student may petition the Dean of the College of Communication to be awarded the undergraduate degree.

Multiple Majors

The following applies to all students majoring in the College of Communication with the exception of Journalism. Students who wish to pursue an additional major in the college must satisfy all degree requirements of the additional major, including courses specified in the UCR as particular to that degree and major.

Students who wish to pursue an additional degree in another college, if additional majors are permitted in that college, must complete all degree requirements for each major, including courses specified in the UCR as particular to each degree and major.

Students outside the College of Communication whose home college permits an additional major in the College of Communication must complete all degree requirements for the additional major, including courses specified in the UCR for that particular degree and major.

Journalism majors must consult with the department as to acceptable additional majors administered in or outside of the College of Communication.

Departments

[Department of Journalism](#)

News Editorial

(Photojournalism emphasis)
(Newspaper/Magazine emphasis)
(Periodical design emphasis)

Public Relations/Advertising

Broadcast Journalism

International Communication

[Department of Radio-TV-Film](#)

Production
Criticism/History
Industry

[Department of Speech Communication](#)

Leadership and Organizational Communication
Interpersonal and Group Communication
Communication Skills
Business and Professional Speaking
Public Speaking
Persuasive Speaking
Communication Theory and Research

Organization and Program

The College is organized into three departments offering nine major fields of concentration. The departments provide professional training in vocational fields for students planning careers and serious advocational training for those who wish to attain artistic ability without professional intent.

Requirements for Graduation

Students should request a degree plan from the Office of the Dean at the end of the sophomore or the beginning of the junior year. The "Intent to Graduate" form, available from the Office of the Dean, should be completed no later than a semester preceding expected graduation.

Approval of the department chairman is required in contract form for all non-traditional courses, i.e., special problems, independent study, research problems, etc.

Beyond the studies specified for each major, the bachelor's degree is built on the 47-semester-hour University Curriculum Requirements that apply to all University graduates.

The University Curriculum Requirements (UCR)

I. Foundations: 9 credit hours

A. The Writing Requirement: 6 credit hours and the Writing Emphasis Experience

1. Writing Workshop: 6 credit hours
2. Writing Emphasis Experience

B. Mathematics: 3 credit hours

II. Explorations: 36 credit hours

A. Physical and Life Sciences: 6 credit hours minimum, 9 hours maximum

B. Social Sciences: 6 credit hours minimum, 9 hours maximum

C. Cultural Heritage: 12 credit hours minimum, 15 hours maximum

1. Religion Studies: 3 credit hours minimum
2. Historical Studies: 3 credit hour minimum
3. Critical Inquiry: 3 credit hours minimum
4. Fine Arts: 3 credit hours minimum

D. Language and Literature: 6 credit hours minimum, 9 hours maximum

1. Foreign Language: 6 credit hours minimum
2. Oral Communication and Literature: 6 credit hours minimum
 - a. Oral Communication: 3 credit hours minimum
 - b. Literature: 3 credit hours minimum

Note: No more than 6 hours may be taken in a given department.

III. Physical Education: 2 credit hours

Note: At least one credit hour must be a Health Concepts Course

Transfer Credit. Students wishing to take courses at another institution, following their admission to Texas Christian University, must secure approval through the Office of the Dean of the College of Communication before enrolling in them.

Pass/No Credit Policy. Courses applied toward any major in the College of Communication may not be taken on the P/NC basis.

Dual Degree Program with the Universidad de Las Americas (Puebla, Mexico)

The purpose of this program is to allow students from UDLA in Puebla Mexico and students from TCU in Fort Worth to earn dual degrees through a shared program of both institutes. Students enrolled in these universities will take courses at both the home and host institutions to fulfill the requirements toward a Bachelor of Arts or a Bachelor of Science degree, which will be awarded concurrently from both institutions. The B.S./B.A. degree from TCU is awarded in the following degree plans: Radio-Television-Film, International Communication (Journalism) and Speech Communication. The B.A. in Communication Science is the degree awarded by UDLA upon completion of the program. Approval from the Office of the Dean of Communication is required before enrolling into this program.

Requirements:

TCU Students

BA or BS in Int'l Comm, RTVF, or SPCO from TCU and BA in Comm Science from UDLA 2.5 GPA (must maintain a 2.5 to complete program) Good Standing Language Proficiency (Brigham Young written/Oral Screening)

UDLA Students

Licenciatura from UDLA in Communication Sciences and a BA or BS in Int'l Comm, RTVF, or SPCO from TCU. (May pursue a minor in Journalism from TCU.) UDLA students are NOT eligible for BA from UDLA: admissions: 8.5 GPA, good standing, and language proficiency (TOEFL 550/Oral Screening)

General Requirements (All Students)

1. Students are advised to spend the 3rd - 6th semester at host institution. The last 2 semesters must be taken at home campus.
2. All TCU students must fulfill TCU's UCR and UDLA students must complete UDLA's general studies requirement. These requirements may be satisfied at either institution.
3. Visiting students must complete a minimum of 60 hours (TCU) OF 16 COURSES (UDLA) IN MAJOR (with grade of C or better), minor, or UCR/Gen Studies for dual degree.
4. 124 semester hours at TCU is equal to 248 unidades at UDLA.
5. As required by the home institution, UDLA students earning the Licenciatura, must complete community service and write a thesis. TCU students earning a BA from UDLA are not required to do community service or write a thesis.
6. Students are eligible for Honors as stipulated at host institution.

TCU Students

1. For BA in Communication Science from UDLA, TCU students must pass the minimum number of hours required by UDLA for appropriate degree.

UDLA Students

1. Must take 60 semester hours at TCU in major, minor, or UCR
2. Upon completion of program at UDLA, students will satisfy minimum number of semester hours required by BA or BS at TCU.
3. Students must satisfy requirements stipulated by degree plan chosen.

Student Organizations

Fraternalities and Sororities

Kappa Tau Alpha (Journalism Honor Society)

Clubs

Speech Honor Society

Professional Organizations

Society of Professional Journalists
Women in Communications, Inc.
American Advertising Federation
Public Relations Student Society of America
National Association of Black Journalists



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Journalism

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(JOUR)

The Department of Journalism offers majors in advertising/public relations, broadcast journalism, international communication, and news-editorial journalism. Minors are available in advertising/public relations and news-editorial journalism. Degrees offered through the department include the B.A., the B.S., and the M.S.

The goal of the department is to develop skilled professional communicators who understand their social, legal, and ethical responsibilities and have a keen sense of career opportunities in a global and technological society. Each degree program in the department prepares students to communicate in a democracy to its diverse audiences through critical thinking and analytical writing skills.

All programs require professional quality and performance. TCU's Journalism Department is one of about a dozen programs at private universities in the nation accredited by the Accrediting Council on Education in Journalism and Mass Communication (ACEJMC). About 10 percent of the journalism programs at public and private universities in the country are accredited by the council. The department fully subscribes to the ACEJMC guidelines that 80 semester hours of the student's coursework be taken outside Journalism and/or mass communications classes, to ensure a broad liberal arts education. Of the 80 hours, 65 must be in traditional liberal arts. Forty-four hours may be taken in Journalism or other mass communication courses, including Radio-TV-Film courses. Majors in all sequences must conform to this restriction on the number of hours in mass communication study.

Students cannot consider themselves journalism majors or minors until they have passed the Grammar-Spelling-Punctuation and keyboarding examinations, which are administered on a regular basis each semester. Students may take the GSP exam only three times. A GSP study guide is available. Students must maintain contact with the Journalism office to determine the exact days and times the examinations will be administered. Successful completion of the examinations is necessary to enroll in the first writing course: Journalism 10113, Media Writing and Editing I, which must be passed with a grade of "C" or better before students can take any course for which Journalism 10113 is a prerequisite. All skills courses must be taken sequentially.

Courses in the Journalism majors or minors must be taken for a letter grade. Journalism courses taken in the major and minor sequences must be passed with a grade of "C" or better to fulfill graduation requirements.

Majors in Journalism

B.A. Degree with a Major in Journalism, News-Editorial sequence (Newspaper or Magazine emphasis):

124 hours with 37 hours in Journalism, including 10103, 10113, 20103, 30203, 30343, 40463, 40493, 40101, 40523, 40613 and nine hours of Journalism electives. A second major in a complementary field is strongly recommended; students should consult with their adviser for suggestions.

B.A. Degree with a Major in Journalism, News-Editorial sequence (Photojournalism emphasis): 124 hours with 34 hours in Journalism and 9 hours in the Department of Art. Required courses include: JOUR 10103, 10113, 20103, 30203, 30233, 30453, 40101, 40523, 40613, 40463 or 40643, and six hours of Journalism electives. Art courses required are ART 20743, 30710, 30703 or 30743.

B.A. Degree with a Major in Journalism, News-Editorial sequence (Periodical Design emphasis): 124 hours with 34 hours in Journalism and 9 hours in the Department of Art. Required courses include: 10103, 10113, 20103, 30203, 30343, 30443, 30453, 40101, 40523, 40613, and six hours of Journalism electives. Art courses required are ART 10123, 20323, and 20333.

B.S. Degree with a Major in Journalism, News-Editorial sequence (Newspaper or Magazine emphasis): 124 hours with 37 hours in Journalism, including 10103, 10113, 20103, 30203, 30343, 40463, 40493 or 40643, 40101, 40523, 40613, and nine hours of Journalism electives. A statistics course in the Mathematics Department or School of Business is required, plus Computer Science 10203 or 10403. A second major or a minor is strongly recommended but is not required; students should consult with their adviser for suggestions.

B.S. Degree with a Major in Journalism, News-Editorial sequence (Periodical Design emphasis): 124 hours with 34 hours in Journalism and 9 hours in the Department of Art. Required courses include: 10103, 10113, 20103, 30203, 30343, 30443, 30453, 40101, 40523, 40613, and six hours of Journalism electives. Art courses required are ART 10123, 20323, and 20333. A statistics course in the Mathematics Department or School of Business is required, plus Computer Science 10203 or 10403.

B.S. Degree with a Major in Journalism, News-Editorial sequence (Photojournalism emphasis): 124 hours with 34 hours in Journalism and 9 hours in the Department of Art. Required courses include: 10103, 10113, 20103, 30203, 30233, 30453, 40101, 40523, 40613, 40463 or 40643 and six hours of Journalism electives. Art courses required are ART 20743, 30710, 30703 or 30743. A statistics course in the Mathematics Department or School of Business is required, plus Computer Science 10203 or 10403.

B.S. Degree with a Major in Journalism, Public Relations/Advertising sequence: 124 hours with 39 hours in Journalism, including 10103, 10113, 20103, 30313, 30403, 30413, 30453, 30803, 40513, 40523, 40903, and six hours of Journalism electives. A statistics course taken in either the Mathematics Department or School of Business is required. An Area of Emphasis consisting of 18 hours in a discipline selected by the student and approved by a Journalism adviser must be completed. Students may also choose to complete the requirements for a major or minor in the selected discipline. If this option is selected, students must fulfill the requirements as prescribed by the department in which the minor or second major is taken.

B.S. Degree with a Major in Journalism, Broadcast Journalism sequence: 124 hours with 34 hours of Journalism courses. A minor is not required. Required courses in Journalism include 10103, 10113, 20103, 20203, 30203, 30543, 40523, 40453, 40101, 40553, six hours of Journalism electives, plus Computer Science 10203 or 10403.

B.A. Degree with a Major in Journalism, International Communication sequence (News-Editorial or Global Advertising/Public Relations specialization): 124 hours with 39 hours in Journalism for the Global Advertising/Public Relations specialization and 37 hours for the News-Editorial specialization. One semester of study or internship abroad, a minor in a foreign language and an area of emphasis in International Studies (18 hours) are required. Both specializations require Journalism 10103, 10113, 20103, 40523 and 40543. In addition, the News-Editorial specialization requires 30203, 30543, 40101, 40463, 40963, and nine (9) hours of News-Editorial electives for a total of 37 hours. The Global-Advertising/Public Relations specialization includes 30313, 30403, 40413, 30453, 30803, 40903 and six hours of Journalism electives. Recommended Journalism electives for the Global Advertising/Public Relations specialization are JOUR 40403, 40453, 40603, and 50153. Students should consult with their adviser for suggestions about courses for the International area of Emphasis (18 hours) and News-Editorial electives.

Minors in Journalism

News-Editorial Emphasis: 18 hours in Journalism, including 10103, 10113, 20103, 30203, 40523, and three other hours approved by the Department of Journalism chairman. Broadcast Emphasis: 18 hours in Journalism, including 10103, 10113, 20103, 20203, 30203, and 30543. Public Relations/Advertising Emphasis: 18 hours in Journalism: 10103, 10113, 20103, 30313, 30403, and 40523. Students minoring in Journalism may not enroll in 40453 (Internship).

Requirements for Changing Major to Journalism

Current TCU students of sophomore standing or above pursuing a program outside the Department of Journalism who wish to change their major to one of the sequences in the department must have achieved a TCU cumulative GPA of 2.5 before they can declare a major inside the department.

Teacher Certification

Requirements for Journalism Teaching Certification: 24 hours in Journalism: 10103, 10113, 20103, 30203, 30313, 30233, 30453, 30853, and 40523.

Accreditation and Professional Organizations

The Department is accredited by the ACEJMC. Five professional organizations have chapters affiliated with the Department: The Society of Professional Journalists; Association for Women in Communications; American Advertising Federation; the Public Relations Student Society of America; and the National Association of Black Journalists. The Department also has a chapter of Kappa Tau Alpha, the National Honorary Society for Journalism Students.

Internships

Students are encouraged to serve in internships with newspapers, magazines, radio or television stations, public relations or advertising agencies or departments. The Department cooperates closely with the Texas Daily Newspaper Association, Public Relations Society of America, Texas Public Relations Association, and Advertising Clubs in Fort Worth and Dallas in their internship programs. Internship credit can be given only to Journalism majors. Minors or students majoring in other disciplines cannot receive Journalism credit for internships. The Department will make every effort to help students find internship positions in their junior or senior year in the United States or abroad.

Student Publications

The department sponsors two student publications, the TCU Daily Skiff and Image, a general interest magazine, which provide an opportunity for students to gain practical, hands-on experience in every phase of newspaper and magazine publishing. Broadcast journalism students can also work with Skiff TV, which airs student broadcast packages worldwide through the Internet.

Honors Program

Candidates for Departmental Honors should take 30003 their junior year and 40003 the fall semester of their

senior year.

3-2 M.B.A. Program

The department offers a 3-2 program that allows students to complete the Master of Business Administration degree in five years. The M.B.A. is offered in cooperation with the M.J. Neeley School of Business.

Graduate Studies offered by the Department

The Department of Journalism offers two graduate degrees, the Master of Science in Journalism and the Master of Science in Advertising/Public Relations. Graduate courses at the 5000 level are listed here in the undergraduate catalog. For courses at the 6000 and 7000 level, consult the University's graduate catalog.

The following is a complete list of courses offered by this department. Go to Class Search on Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

Journalism Core

10103 COMMUNICATION IN SOCIETY. Open to students in all departments. Nature of communication in Society in a historical/cultural perspective. Intellectual understanding of media history, current functions and future of media technology. Media as agents of cultural norms, values and mythologies. Principles, politics and economics of mass media. Critical analysis of media's influence on individuals and institutions.

10113 MEDIA WRITING AND EDITING I. *Prerequisite: Freshman-level Writing Workshop plus passing scores on grammar-spelling-punctuation and keyboarding examinations.* Open to students in all departments. Introduction to basic writing skills of journalism, advertising, and public relations. Style and story structure for the print and electronic media.

20103 MEDIA WRITING AND EDITING II. *Prerequisite: 10113.* Continuation of Media Writing and Editing I, emphasizing longer and more complex stories and writing for Ad/PR and electronic media. Introduction to newsgathering.

40523 LAW AND ETHICS OF MASS COMMUNICATION. *Prerequisite: Senior standing.* Open to majors and minors only. Ethical and legal responsibilities, rights, and restrictions. Survey of Constitutional guarantees, libel, contempt of court, invasion of privacy, privilege, copyright, obscenity, and federal agencies.

Advertising/Public Relations

30313 ADVERTISING PRINCIPLES. *Prerequisite: Open to advertising-public relations and marketing majors or minors or permission of instructor.* Overview of advertising in marketing and society. Emphasis upon the realistic approach of managing advertising in corporate and agency operations. Focuses on the swift pace, short deadlines and quick decision factors necessary to succeed in advertising in modern business. Global aspects of advertising stressed.

30403 PUBLIC RELATIONS PRINCIPLES. Public relations in modern society, business, and communications. Influencing opinion through acceptable performance and two-way communication. Recommended for students in many fields.

30413 ADVERTISING AND PUBLIC RELATIONS COPY AND PRODUCTION. *Prerequisites: 10113, 30313, and 30453.* Planning, creating, and producing print and broadcast materials for advertising and public relations.

30523 BROADCAST MARKETING AND PROMOTIONS. (Also RTVF) *Prerequisite: RTVF 10113 (for RTVF majors) or 30313 (for journalism majors) or permission of instructor.* Principles and techniques of developing successful marketing and promotions campaigns for radio-television stations, cable networks, and motion pictures. Course focuses on issues of market research, advertising strategies, identity and image development, and creative execution.

30803 WRITING FOR PUBLIC RELATIONS AND ADVERTISING. *Prerequisites: 10113, 20103, 30313, 30403, and 30453.* Instructional and writing practice to develop the professional level writing skills required in public relations and advertising, emphasizing the different approaches required for different audiences and media.

40403 PUBLIC RELATIONS AND ADVERTISING CASES AND PROBLEMS. *Prerequisites: 30313 and 30403.* Application of principles to a variety of cases and problems. Study of current public relations and advertising problems and potential problems.

40453 INTERNSHIP. *Prerequisite: Minimum of 75 total semester hours with 2.5 GPA plus minimum of 9 semester hours in journalism skills courses.* A 2.5 GPA required in the major and approval of department chairman. Practical experience with media or in public relations/advertising situations. Must work a minimum of 260 hours in approved practical experience situation. One hour class per week. Open only to majors.

40513 MEDIA ANALYSIS, PLANNING AND MANAGEMENT. *Prerequisite: 30313, 30403.* Evaluation and use of measurements and data concerning mass media and markets. Principles of mass media and markets. Principles of media selection, scheduling, costs. Cases and problems.

40703 CAMPAIGNS. *Prerequisites: 30313, 30403, and 40403 and permission of instructor.* This course creates a working agency structure for students to experience and use in resolving clients' problems through an integrated communications approach. Students will prepare a complete campaign and present it to an actual client as a final

project.

50133 MANAGEMENT OF PUBLIC RELATIONS AND ADVERTISING DEPARTMENTS/FIRMS OR AGENCIES.

The course will examine management techniques, tactics, concerns and issues in handling public relations and advertising departments within organizations, corporate and nonprofit, and agencies or firms, from small independent operations to subsidiaries of larger entities.

50163 ISSUES AND CRISES IN PUBLIC COMMUNICATION. The course covers the way issues of public concern are detected by news media and by public relations and advertising strategists as the issues develop, and it examines how communication of government policies as well as corporate and non-profit organizations concerns affect perceptions and subsequently public opinion.

Broadcast Journalism

JOUR 20203 RADIO/TV NEWSWRITING. *Prerequisite: JOUR 10113.* Newswriting for the electronic media with emphasis on mastery of professional abilities required of news writers for radio and television. Writing for the on-camera performer will be stressed. Required of majors.

JOUR 30543 BROADCAST REPORTING. *Prerequisite: JOUR 30203.* Writing, videotaping and editing news reports for television. Includes live reporting.

40453 INTERNSHIP. *Prerequisite: Minimum of 75 total semester hours with 2.5 GPA plus minimum of 9 semester hours in journalism skills courses. 2.5 GPA required in major and approval of department chairman.* Practical experience with media or in public relations/advertising situations. Must work a minimum of 260 hours in approved practical experience situation. One hour class per week. Open only to majors.

JOUR 40553 ISSUES IN BROADCAST NEWS. Analysis of broadcast news, techniques of investigative reporting, newsroom decision making, political coverage, election coverage and polling, crisis coverage, and other topics. Study of the daily operation of the broadcast news profession.

International Communication

40543 INTERNATIONAL AND INTERCULTURAL COMMUNICATION. Factors influencing cross-cultural images through mass media, news flow. Political, social and cultural aspects of mass communication across national boundaries, communication structures, technology and content.

40603 GLOBAL ADVERTISING/PUBLIC RELATIONS IN THEORY AND PRACTICE. *Prerequisite: 30313 and 30403 or permission of instructor.* Course focuses on the underlying theories and principles governing advertising and public relations in market economies and democratic societies and explores the practice of these disciplines in a global economy/society. Cultural/legal obstacles and marketing/communication opportunities will be explored as future practitioners work "across borders." *Course taught only in London.*

40963 TOPICS IN INTERNATIONAL AND ETHNIC MEDIA. Investigation of the cultural, technological and historical developments of a selected national or ethnic media group, including the examination of culture, images and identity, politics and economics. Topics may vary and will include: Latin American and Hispanic Media, British and European Media, and Asian and African Media.

JOUR 50153 CULTURAL IMPERATIVES IN INTERNATIONAL COMMUNICATION. Analysis of communication systems in national development, cross-cultural structure and theory. Political and socio-economic factors affecting communication and relations in the context of world affairs. Questions of media imperialism, ideology, monopoly of knowledge and the New World Information Order.

News-Editorial Journalism

30203 REPORTING. *Prerequisites: 10113, 20103.* Applying the principles of good writing to journalism practice. Development of skills in evaluating the news, interviewing, gathering information, and objective reporting for the print media. Faculty supervised laboratory training provides practical experience on the University newspaper under typical newsroom conditions.

30233 PHOTOJOURNALISM. *Prerequisites: Jour 20103 and Art 20743.* Fundamentals of photography in modern mass communication; instruction in taking, processing, and editing pictures. (Requires materials fee.) .

30343 COPYEDITING. *Prerequisites: 10113, 20103, 30203.* The evaluation of copy written for mass audiences, including consideration of grammar, style, precision, clarity, conciseness and implications of libel.

30443 PERIODICAL DESIGN. *Prerequisites: 20103, 30453.* An overview of periodical design: fundamental concepts used in planning pages for periodicals such as newspapers, magazines, and corporate newsletters/house organs; includes an introduction to basic typography, layout, composition, illustration, photography, production and printing.

40453 INTERNSHIP. *Prerequisites: Minimum of 75 total semester hours with 2.5 GPA plus minimum of 9 semester hours in journalism skills courses. 2.5 GPA required in major and approval of department chairman.* Practical experience with media or in public relations/advertising situations. Must work a minimum of 260 hours in approved practical experience situation. One hour class per week. Open only to majors.

40463 PUBLIC AFFAIRS REPORTING. *Prerequisite: 30203.* Study of community news sources such as city, county, state and federal governmental agencies, courts. Depth reporting of significant and complex news, with emphasis on fact-finding and investigation.

40473 SPECIALIZED REPORTING AND WRITING. *Prerequisite:* 30203. To develop skills in writing for the mass media on specialized, technical subject matter, based on mastery of advanced writing skills, knowledge of communication research findings, and thorough understanding of the subject matter. Specifically, to prepare students to be competent reporters and writers in such specialized areas as science, business, energy, the environment, health, medicine, gender, race and ethnicity.

40483 SPORTS REPORTING AND WRITING. *Prerequisites:* 10113, 20103, 30203. Gathering and writing the news on a sports beat. Development of skills in information-gathering, interviewing, and writing for print media sports reporters. Faculty-supervised laboratory training provides practical experience on The TCU Daily Skiff writing under newsroom conditions.

40493 OPINION WRITING. *Prerequisite:* 30203. Editorial and interpretive writing about public affairs and the arts. Style and research for editorials, columns, and critical reviews. The policies, problems, responsibilities, and comment functions of the press.

40643 FEATURE AND MAGAZINE WRITING. *Prerequisite:* 30203. Newspaper feature and magazine non-fiction writing, research, and free-lance marketing procedures; emphasis on writing for publication.

50173 INTERNATIONAL REPORTING. The course will critically analyze the coverage of international affairs in U.S. print and broadcast media. It will help the student develop competency in international journalism through the theory and practice of journalism and mass communication as they relate to international development, East-West discourses, and the flow of news and information.

50183 MEDIA MANAGEMENT AND LEADERSHIP. Dramatic changes in technology and in the media's role in converging technologies require new management and leadership techniques and paradigms. Students will discuss existing case studies examining these changes. This course will give students a survey of some of the latest management and leadership theories. They will apply these theories to a number of different, competitive, structural, motivational, strategic, and organizational problems of the media, primarily by solving problems in existing case studies and by writing original case studies.

50193 ECONOMICS AND FINANCE OF THE MEDIA. The course will examine the economic environment and financial practices of the mass media, including the World Wide Web. The course will examine how the media are affected by advertisers, competition, financial markets, and other economic forces. Understanding and structuring debt and equity, valuing media companies, and writing a business plan are included in the course work.

General Courses

30003 JUNIOR HONORS IN JOURNALISM. Studies, reports and discussions of literature of journalism and mass communication and of significant trends. This is generally offered to juniors in journalism on a tutorial basis. Specific topic is determined jointly by the student and the journalism instructor. JOUR 30003 and 40003 cannot be taken simultaneously.

30453 INFORMATION GRAPHICS. Introduction to computer hardware and software for use in desktop publishing and periodical design and web page design.

30853 HISTORICAL DEVELOPMENT OF MASS MEDIA. Development of American journalism. Political, social, and economic interaction of the media and society.

40003 SENIOR HONORS IN JOURNALISM. A major research study involving a substantial topic or project under the supervision of a three-member faculty committee. The sequence of JOUR 30003 and 40003 must be planned so that 40003 is taken prior to the student's final semester of undergraduate work.

40101 COMPUTER-ASSISTED INFORMATION GATHERING. Using computers to gather and analyze information for news stories. Includes on-line search techniques and database analysis.

40613 MEDIA ETHICS. This course will introduce the study of ethical issues in the media. Students will look critically at current media practices and develop an understanding of prominent ethics questions, as well as the ability to analyze the important ethical issues faced by the mass media industry.

40803 PUBLIC OPINION AND PERSUASION. A study of the effects of persuasion in the formation of public opinion.

40903 RESEARCH AND EVALUATION. Basic procedures of survey research with emphasis on techniques used in media and advertising/public relations research.

40970 SPECIAL TOPICS. *Prerequisite:* Permission of department chair. Variable credit. Special problem areas requiring independent or small group research and study within a related area of journalism/mass communications.

40993 MASS MEDIA AND SOCIETY. A capstone seminar course designed to pull together for senior students all of the relationships of the mass media-both among various aspects of the media and between media and society.

50123 PROSEMINAR IN JOURNALISM AND MASS COMMUNICATION. Seminar devoted to the analysis and discussion of significant issues in journalism and advertising/public relations, with a focus on related literature, research areas and policy developments.

50143 SOCIAL AND CULTURAL HISTORY OF THE MEDIA. Seminar designed to explore the history of mass media. Issues discussed in this class will improve historical knowledge about the mass media and give a foundation for understanding the professional development of journalism and mass communication.

50163 ISSUES AND CRISES IN PUBLIC COMMUNICATION. The course covers the way issues of public

concern are detected by news media and by public relations and advertising strategists as the issues develop, and it examines how communication of government policies as well as corporate and non-profit organizations concerns affect perceptions and subsequently public opinion.

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Radio-Television-Film

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(RTVF)

Available on the Bachelor of Arts and Bachelor of Science degree with a major in Radio-TV-Film.

The Department of Radio-TV-Film functions within the context of a liberal arts university and seeks to produce well rounded, highly-skilled students who are adaptable to the changing complexities of today's electronic media and film environments.

The department requires a core of courses that provides a strong background for both the liberal arts and pre-professional student. These courses incorporate an overall view of the history of broadcasting and film, production, and aesthetics. Subsequent courses build on this orientation, while also encouraging students to specialize in a chosen area of interest.

Facilities and Resources

The department occupies the south ground floor wing of the Moudy Building, a modern, spacious facility. RTVF is well equipped to serve students in all media-related areas. This includes a surround-sound theatre, a multi-format FM radio station, film production equipment, and two television studios with associated editing and post-production suites.

The department also houses a permanent collection of over 7,000 film and television titles in the Gwendolyn P. Tandy Memorial Film Library. The collection, used by faculty in RTVF courses, offers unusual depth and breadth for students interested in film and television production, history, and criticism.

B.A. Degree with a Major in Radio-TV-Film

A total of 124 semester hours is required: University Curriculum Requirements (UCR)-47 semester hours to include 6 credit hours in one foreign language at the 20000 level or above and Survey of Art, Dance, Music, or Theatre for the Fine Arts requirement (RTVF 10053 cannot be used to fulfill major or minor requirements). RTVF requires 37 hours within the major, 18 hours in an appropriate minor (chosen in consultation with the department adviser), and 22 hours of electives. *REMINDER: 12 credit hours in the major must be at the 30000-level or above.

B.S. Degree with a Major in Radio-TV-Film

Students pursuing the B.S. must complete all of the departmental requirements for the B.A. with the exception of the foreign language requirement.

All potential RTVF majors will complete the following core courses:

10113 History of Broadcasting

10123 History of Film

10143 Introduction to Film and Television

Aesthetics

All RTVF majors will also complete 40901 Senior Seminar in the last semester of their senior year.

Declaration of Major

Students who have completed the core RTVF courses may apply for the Radio-TV-Film major.

Minimum requirements for acceptance:

--Minimum GPA of 2.5 for the required core classes

--"C" or better in each of the core classes

--Overall TCU GPA of 2.5

--Application which meets with faculty approval. The application consists of:

--Letter of application

--Current transcript

--Writing sample

All RTVF majors will take two courses in each of three areas:

I. Production-RTVF 20203, or RTVF 20213, or RTVF 20223 and any other RTVF Production course (except Production Electives-see below)

II. Analysis-RTVF 20583 and any other RTVF Analysis course

III. Industry-RTVF 20523 and any other RTVF Industry course

Each student will then choose one of these areas of specialization. The student must take three additional courses in that area.

Departmental Requirements

Majors in Radio-Television-Film must achieve the following minimum academic requirements as a prerequisite **to enroll in junior and senior level Radio-Television-Film courses:**

1. Overall TCU GPA of 2.5;
2. Minimum GPA of 2.5 for all courses taken within the Department of Radio-Television-Film;
3. "C" or better in all courses taken in the Department of Radio-Television-Film.

Students whose overall or departmental grade point average falls below 2.5 cannot enroll in a junior or senior level RTVF course until the 2.5 GPA is achieved.

The ultimate responsibility for knowing the pre-requisites for a course lies with the student and is noted in this catalog. Students who wish to apply for "permission of instructor" or "permission of department" to take a class must submit a request in writing to the RTVF Department prior to registration. The Department does not guarantee that all who wish to enroll in these classes will be accepted.

I. Production

Production integrates the varied techniques of audio, television, and motion picture production with the development of effective communication and writing skills. The curriculum orients students to industry technical practice, production planning, scripting, visualization, producing, directing, and editing.

20203 Audio Production I

20213 Video I

20223 Cinematography I

20243 Lighting and Design

20510 FM Station Operations

30203 Audio Production II

30213 Video II

30223 Cinematography II

30243 Directing

30353 Acting for Television

30553 Dramatic Writing for Television and Film

40113 Sports Broadcasting

40213 Video III

40333 Post Production

Production Electives (May be taken in addition to the three courses for Production emphasis):

20303 Announcing and Voice-Over Techniques

30510 Advanced FM Station Operations

40353 On-Camera Acting

II. Analysis

Analysis offers the student a foundation in the critical and historical perspectives of radio, television, and film. These courses focus upon the cultural, social, and technological influences of the media and how those influences shape our world. NOTE: RTVF majors with an emphasis in Analysis must take 40683.

20363 Analysis of Screen Performance

20583 Media Analysis

30410 Film Genres

30433 American Cinema

30593 Television, Culture, and Society

30983 Women in Television and Film

40003 Senior Honors Research Paper

40440 Topics in Film

40570 Topics in Television

40623 Topics in National Cinemas

40683 Film Theory and Criticism

50400 Advanced Studies in RTVF

50403 New Technologies

III. Industry

Industry is structured to produce competent leaders for the highly competitive entertainment field. Focus is placed on understanding industry practices and analysis of the interrelated nature of various industry segments. Development of effective communication and leadership skills is also a component of these courses.

20503 Fundamentals of Broadcast & Film Writing
20523 Business of Media
30513 Electronic Media Research
30523 Broadcast Marketing & Promotion
30573 Broadcast & Cable Programming
40503 Broadcast Law & Regulation
40523 Management for Broadcast, Cable, and Film
50443 Studies in International Broadcasting

Minor in Radio-TV-Film

The minor in Radio-Television-Film requires 18 hours, including: 10113 (History of Broadcasting), 10123 (History of Film), 10143 (Introduction to Film and Television Aesthetics), and 20583 (Media Analysis). RTVF 10053 cannot be used to fulfill minor requirements. The six remaining hours may be selected from:

20363 Analysis of Screen Performance
20503 Fundamentals of Broadcast & Film Writing
20510 FM Operations
30353 Acting for Television
30433 American Cinema
30593 Television, Culture, and Society
30643 British Cinema and European Culture
30663 Film in a Global Society
30983 Women in Television and Film
40353 On-Camera Acting
40623 Topics in National Cinemas
40683 Film Theory and Criticism

Minors in Radio-Television-Film must achieve the following minimum academic requirements as a prerequisite **to enroll in junior and senior level Radio-Television-Film courses:**

1. Minimum GPA of 2.5 for the three RTVF core courses;
2. Minimum GPA of 2.5 for all courses taken within the Department of Radio-Television-Film;
3. "C" or better in all courses taken in the Department of Radio-Television-Film.

Admission of Transfer students

Transfer students admitted to TCU are not guaranteed admission to the Radio-TV-Film major. All potential RTVF majors-including transfer students-must complete the three core courses (10113, 10123, 10143) and then follow the procedures for application to the major. Transfer students must submit a written request for the Department of Radio-TV-Film to consider accepting any substitutes for the RTVF 10113, 10123, or 10143. Each such request will be considered on an individual basis.

Professional Affiliations and Accreditation. The Department of Radio-TV-Film holds institutional memberships in the Broadcast Education Association, the National Association of Broadcasters, Texas Association of Broadcasters, Texas Association of Broadcast Educators, the National Broadcasting Society, the International Communication Association, the International Television Association, and the University Film and Video Association.

Internships. The Department has an active supervised internship program which places students in radio stations, television studios, film production companies, audience research companies, and corporate/industrial media centers. Most interns work in the Dallas/Fort Worth Metroplex, but in the summers many interns are placed in their hometowns or in major media markets such as Los Angeles, New York, and London. Juniors and seniors with 18 hours completed in the major with a grade point of 3.0 or above may apply for an internship.

Honors Program. Radio-TV-Film majors who plan to pursue Departmental Honors must be members of the Honors Program and should enroll in RTVF 30003 during their junior year and RTVF 40003 during the fall semester of their senior year.

Combined Bachelors/Masters 3/2 Program. The Department of Radio Television-Film offers the opportunity for students to earn a B.S. or B.A. in Radio-TV-Film and a Master of Arts in Media Arts in five years of full-time study. During the first three years, the student will complete a minimum of 104 hours including all major and associated requirements for the undergraduate degree. The student will apply for the Graduate Program in Media Arts during his or her junior year. For a complete description of the program and its requirements, see your adviser.

The following is a complete list of courses offered by this department. Go to Class Search to see which courses are being taught this semester.

Courses of Instruction

10053 SURVEY OF FILM. Lecture and viewing sessions. History of film from 1895 to present. Includes examination of the development of film structure and aesthetics within appropriate social and cultural contexts.

Viewing of significant films in cinema history. Designed for non-majors. RTVF majors may not use this course to fulfill major requirements or Fine Arts UCR requirement.

10113 HISTORY OF BROADCASTING. Lecture and viewing sessions. An intensive overview of the history of radio, television and related electronic media from 1900 to the present. Topics include the rise of the network system, programming and the evolution of broadcast technology. This course is designed for majors and minors; the minimum acceptable grade is a "C."

10123 HISTORY OF FILM. Lecture and viewing sessions. An intensive history of film from 1890 to the present. Includes examination of the development of film structure within social and cultural contexts, the Hollywood studio system, and selected international cinema systems. This course is designed for majors and minors; the minimum acceptable grade is a "C." RTVF 10053 may not substitute for this course.

10143 INTRODUCTION TO FILM AND TELEVISION AESTHETICS. An overview of how motion pictures and television programs can be "read" and analyzed as complex aesthetics texts. The course is designed to complement and provide a framework for all other RTVF courses. Class combines lecture, discussion and viewing sessions.

20203 AUDIO PRODUCTION I. *Prerequisites: 10113, 10123, and 10143. RTVF majors only.* Fundamentals of audio production. Lecture and laboratory projects designed to acquaint students with audio production requirements and responsibilities.

20213 VIDEO I. *Prerequisites: 10113, 10123, and 10143. RTVF majors only. RTVF majors only.* Lecture and laboratory. Fundamentals of video pre-production, production, and direction. Functions and responsibilities of the production crew and equipment utilization.

20223 CINEMATOGRAPHY I. *Prerequisite: 10113, 10123 and 10143 RTVF majors only.* Lecture and Laboratory. Principles and practices of 16mm and electronic cinematography, lighting, sound, and editing. Individual exercises and group projects.

20243 LIGHTING AND DESIGN. *Prerequisite: 20213.* Lecture and laboratory. Theory and practice of lighting and production design for film and video.

20303 ANNOUNCING AND VOICE-OVER TECHNIQUES. On-camera and microphone techniques, and the performance of commercials and public service announcements, newscasts, and special events broadcasts.

20363 ANALYSIS OF SCREEN PERFORMANCE. *Prerequisite: 10143 or permission of instructor.* Historical and critical analysis of screen performance. Intensive practice in the critical viewing of and writing about screen performance.

20503 FUNDAMENTALS OF BROADCAST AND FILM WRITING. *Prerequisites: English 10803 and RTVF 10143, or permission of instructor.* Overview and analysis of writing styles and formats for TV and film genres.

20510 FM STATION OPERATIONS. *Prerequisites: 10143 and permission of department.* Open to RTVF and Journalism majors only. Practicum in various phases of station operations. Students serve in different staff capacities at KTCU-FM. (1-3 semester hours; 3 hours maximum.)

20523 BUSINESS OF MEDIA. *Prerequisites: 10113, 10123, and 10143.* This course provides an intensive overview of radio, TV, and film business practices, including the structure of media companies; how media conceptualize and measure their audience; strategies (i.e., promotion, advertising) media companies use to attract an audience, and regulatory structures that govern the radio, TV, and film industries.

20583 MEDIA ANALYSIS. *Prerequisites: 10113, 10123, 10143; English 10803.* Students in this course will develop a critical perspective on broadcasting and film. Intensive practice in analyzing and writing about broadcast programs and motion pictures.

30003 HONORS TUTORIAL. *Prerequisite: Junior standing and membership in the Honors Program.* This course is offered only as a tutorial and the specific topic is determined by consultation with an instructor. Arrangements for this course must be made with an instructor the semester prior to enrollment.

30203 AUDIO PRODUCTION II. *Prerequisite: 20203.* Lecture and laboratory. Practicum in advanced radio, audio and music production, program direction, and multi track recording for advertising and music. Basic principles of radio programming.

30213 VIDEO II. *Prerequisite: 20213, 20243.* Lecture and laboratory. Intermediate level production and direction of studio and non-studio video.

30223 CINEMATOGRAPHY II. *Prerequisite: 20223.* Practicum in advanced cinematography. Advanced study of lighting and film exposure techniques. The course culminates with an advanced 16mm film project.

30243 DIRECTING. *Prerequisite: 30213.* Lecture and laboratory. An exploration of the role of the director in film and video production. Includes examination of case studies as well as practical exercises.

30353 ACTING FOR TELEVISION. *Prerequisites: 10113, 10123, and 10143. Non-RTVF majors/minors may apply for permission of instructor.* An exploration of the theories and techniques of on-camera performance. Students act in student-directed video projects and critique their work in class. Projects and assignments focus on improving performance skills as well as developing strategies to work with talent in a production setting.

30410 FILM GENRES. *Prerequisites: 20523, 20583, or permission of instructor.* Historical and critical overview of

various film genres, with viewing and analysis of representative films.

30433 AMERICAN CINEMA. Lecture and viewing sessions. An overview of the history of American cinema from 1895 to the present. Includes examination of the development of American film from a cultural and historical perspective. Topics include Hollywood system, Independent cinema, Ethnic cinema, and Minority cinema. Open to non-majors.

30510 ADVANCED FM STATION OPERATIONS/MANAGEMENT. *Prerequisites: 20510 and permission of instructor.* Open to RTVF majors only. Practicum in operations and management of FM radio stations. Students serve as managers and mentors in station operations. Students may be assigned to KTCU-FM in areas such as programming, operations, music formats, sports, and news. (1-3 semester hours; 3 hours maximum per semester.)

30513 ELECTRONIC MEDIA RESEARCH. *Prerequisite: 20523; Math 10043 recommended.* Introduction to qualitative and quantitative research methodologies in broadcasting. Includes an historical overview of how the broadcast audience has been conceptualized.

30523 BROADCAST MARKETING AND PROMOTIONS. (Also Journalism) *Prerequisite: RTVF 20523 (for RTVF majors) or 30313 (for Journalism majors) or permission of instructor.* Principles and techniques of developing successful marketing and promotions campaigns for radio-television stations, cable networks, and motion pictures. Course focuses on issues of market research, advertising strategies, identity and image development, and creative execution.

30553 DRAMATIC WRITING FOR TELEVISION AND FILM. *Prerequisites: English 10803 & 20803, RTVF 10113, 10123, and 10143. Non-RTVF majors/minors may apply for permission of instructor.* Principles and techniques of writing fiction for the screen. Conducted as a workshop.

30573 BROADCAST AND CABLE PROGRAMMING. *Prerequisite: 20523* Historical overview of broadcast programming trends. Current program practices and strategies in radio, television, cable and other electronic media.

30593 TELEVISION, CULTURE, AND SOCIETY. *Prerequisite: 20583 or permission of instructor.* Issues in the relationships among television, culture, and society. Emphasis on understanding the role television has played in the development of mass culture and the influence of television on contemporary society.

30643 BRITISH CINEMA AND EUROPEAN CULTURE. *Prerequisite: 10123, or permission of instructor.* Using a cultural/historical perspective, this course focuses upon postcolonial, social, economic, and political factors that create the visual image in British cinema. Investigates the representation of Britain's identity in European culture. Examined through a series of seminars, guest lectures, and on-site visits to studios and museums in London.

30663. FILM IN A GLOBAL SOCIETY. *Prerequisites: 10123, 20523, or permission of instructor.* Examines the increasingly global nature of the film and broadcasting industries, and explores the impact of U.S. films abroad, using the British market as a specific subject of analysis. Includes a series of seminars, guest lectures, and on-site visits to studios and museums in London.

30860 INTERNSHIP IN RADIO-TV-FILM. *Prerequisites: RTVF majors only. Permission of department is required. At the time of application for an internship, students must have a GPA of 3.0 or better in RTVF courses, completed 18 hours of RTVF courses including 10113, 10123, 10143, and 20523.* Supervised study, experience, and on-the-job training in a media-related organization. This course may only be taken on a pass-no credit basis. This course may not be used to fulfill requirements for a major or minor in RTVF; it is an RTVF elective only. (1-6 semester hours, 3 hrs. maximum per semester).

30983 WOMEN IN TELEVISION AND FILM. *Prerequisite: 20583 or permission of instructor.* This course examines the relationship between women and the electronic media. Specific issues include the social construction of gender and gender roles, the influence of media stereotypes, and the critical evaluation of artistic works created by female writers, producers, and directors.

40003 SENIOR HONORS RESEARCH PAPER. *Prerequisites: RTVF 30003. Senior standing and membership in the Honors Program.* A supervised research experience and a thesis that is usually based on the subject matter studied in 30003. This course is offered only as a tutorial; arrangements must be made with an instructor prior to enrollment.

40113 SPORTS BROADCASTING. *Prerequisites: 20203 or 20213.* Overview and analysis of sports broadcasting. This course teaches the fundamentals of both on-air talent and behind-the-scenes production of both television and radio sports production.

40213 VIDEO III. *Prerequisite: 30213.* Advanced problems in video production. A variable topic lecture/laboratory course.

40333 POST-PRODUCTION. *Prerequisite: 20213.* This course examines the principles and techniques of non-linear editing. Students will log time on the department's Avid system.

40353 ON-CAMERA ACTING. (Also Theatre 40353) *Prerequisite: Theatre students: THEA 30303 or permission of instructor; RTVF students: RTVF 10113, 10123, and 10143. Non-RTVF majors/minors may apply for permission of instructor.* An advanced course in acting designed to acquaint the student with changes in technique that are necessary for performance before the film or television camera.

40440 TOPICS IN FILM. *Prerequisites: 20523, 20583, or permission of instructor.* Using a variety of theoretical and critical approaches, students will examine selected topics and/or issues within the film industry. (6 hours maximum; 3 hours per semester).

40503 BROADCAST LAW AND REGULATION. *Prerequisite: 20523, senior standing, or permission of instructor.* The laws and regulations under which broadcasting operates. Court cases bearing on broadcasting. Introduction to legal research.

40523 MANAGEMENT FOR BROADCAST, CABLE AND FILM. *Prerequisite: 20523.* The organization and administration of broadcast, cable and film operations. Management techniques and strategies, including forecasting, planning, statistical and financial analysis, and interpersonal communication.

40570 TOPICS IN TELEVISION. *Prerequisites: 20523, 20583, or permission of instructor.* An in-depth analysis of selected television genres and industry practices from a variety of critical and theoretical perspectives. (6 semester hours maximum; 3 hours per semester)

40623 TOPICS IN NATIONAL CINEMAS. *Prerequisite: 20583 or permission of instructor.* Investigation of the historical and cultural developments of a selected national cinema including the examination of film structure and aesthetics in a selected cultural setting. Topics will include the national cinemas of Japan, India, Germany, Italy, etc. (6 semester hours maximum; 3 hours per semester)

40683 FILM THEORY AND CRITICISM. *Prerequisite: 20583.* Survey of classical and contemporary film theories. Required for those RTVF majors taking Analysis emphasis.

40853 MANAGING A PERFORMANCE CAREER. (Also Theatre) *Prerequisite: THEA/RTVF 40353 or permission of instructor.* Business practices related to performance talent in the television and film industry including agencies, unions, auditions, etc.

40900 SPECIAL PROBLEMS IN RADIO, TELEVISION, AND FILM. *Prerequisite: Junior standing.* A conference course designed to give an individual student opportunities for additional specialized work in his or her area of concentration. (1-6 semester hours)

40901 SENIOR SEMINAR IN RADIO-TV-FILM. *Prerequisite: Students must be in last semester of senior year.* A review and synthesis of material covered in the RTVF major. This course is required for RTVF majors; the minimum acceptable grade is a "C." (1 semester hour)

50400 ADVANCED STUDIES IN RADIO, TELEVISION, AND FILM. *Prerequisites: 10113, 10123, 10143; senior or graduate standing.* Seminar in radio, television, and film. (3-6 semester hours; maximum 3 semesters hours per semester).

50403 NEW TECHNOLOGIES. *Prerequisites: 20523, 20583, senior or graduate standing; permission of instructor.* Overview of developments of media technologies and analysis of relationships between technology and culture.

50443 STUDIES IN INTERNATIONAL BROADCASTING. *Prerequisites: 10113, 10123, 10143, 20523.* This seminar course takes a comparative approach to the study of broadcasting. Examines the structure of broadcast media outside the U.S., including production, programming, regulation, finance, and the social effects of broadcasting.

50970 SPECIAL PROBLEMS IN RADIO, TELEVISION, AND FILM. *Prerequisite: Senior or graduate standing.* A conference course designed to give an individual student opportunities for additional specialized work in his or her area of concentration. (1-6 semester hours)

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Speech Communication

[Bachelor of Science Degree](#)

[Bachelor of Arts Degree](#)

[Courses of Instruction](#)

(SPCO)

Available as a major on the B. S. degree with a coursework emphasis in either Communication in Human Relations or in Communication Studies. A major in Speech Communication is also available on the B. A. degree.

A degree in Speech Communication can serve the academic and career objectives of a variety of students. An essential component of a liberal arts education, competence in oral communication is a requirement for most positions in modern business and industry. The Communication in Human Relations emphasis provides majors with the opportunity to develop proficiency in spoken communication in an academic program providing flexibility and adaptability to a variety of professional contexts. The Communication Studies emphasis provides majors with the understanding of interpersonal and public communication processes needed for careers in teaching, research, and for further professional or academic study.

Students may declare a major in Speech Communication in one of two ways: as incoming freshmen or after having completed at least 30 hours of coursework including a grade of "C" or better in either SPCO 10123 (Basic Speech Communication), SPCO 20113 (Interpersonal Communication), or SPCO 20223 (Exploring Human Communication) and an overall GPA of at least 2.25.

Bachelor of Science Degree

B. S. Degree with a major in Speech Communication consists of a total of 124 semester hours: Speech Communication-36 semester hours; University Curriculum Requirements-47 semester hours; Additional-may consist of 1) minor of 18 hours plus 23 hours elective; 2) second major of 27 hours plus 14 hours elective; 3) two minors of 18 hours plus 5 hours elective; or 4) 41 hours elective. Minor(s) or second major must be approved by the chair of the Department of Speech Communication and must be consistent with the requirements of the major and minor department.

Communication in Human Relations Emphasis. Coursework in this area stresses oral communication performance and applied communication. The student must complete SPCO 10123 and 18 semester hours of coursework in the sequence, selected from Communication in Human Relations courses. The remaining 15 semester hours are selected from other courses in the department with consent of an academic advisor.

Communication Studies Emphasis. Coursework in this area stresses an understanding of communication processes and contexts. The student must complete SPCO 10123 and 18 semester hours of coursework in the sequence, selected from Communication Studies courses. The remaining 15 semester hours are selected from other courses in the department with consent of an academic advisor.

Honors Program. Speech Communication majors who plan to pursue Departmental Honors must be members of the Honors Program and should enroll in SPCO 30003 during their junior year and SPCO 40003 during their senior year. Honors students should consult with the Chair of the Speech Communication Department concerning additional guidelines

Suggested Courses for the Freshman Year

FALL

SPCO 10123	3
Writing Workshop	3
Laboratory Science	3
Social Science	3
Religion	3
PEAC	1
Total	16

SPRING

SPCO 20103 or SPCO 20193	3
Laboratory Science	3
Social Science	3
History	3
Fine Arts	3
PE-H	1
Total	16

Bachelor of Arts Degree

B. A. degree with a major in Speech Communication consists of a total of 124 semester hours: Speech-27 semester hours, including SPCO 10123 and SPCO 20223; University Curriculum Requirements-47 semester hours; Additional-may consist of 1) second major of 27 semester hours plus 23 hours elective, or 2) minor of 18 semester hours plus 32 hours elective. An internship may not be counted as part of the 27 semester hour requirement in the major. Minor(s) or second major must be approved by the chair of the Department of Speech Communication and must be consistent with the requirements of the major and minor department. B. A. students must complete at least six hours in modern language beyond the freshman level.

Minor in Speech Communication. A minor requires 18 semester hours, including SPCO 10123 and a sequence of courses as approved by the Chair of the Department. A minimum of 6 hours must be at the 30000 level or above.

The following is a complete list of courses offered by this department. Go to Class Search on Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

Communication in Human Relations (Applied Communication)

10123 BASIC SPEECH COMMUNICATION. Surveys fundamental communication concepts with emphasis on developing public speaking skills.

20103 BUSINESS AND PROFESSIONAL SPEAKING. The role of Speech Communication in the modern organization with special focus on the development of communication skills particular to business and the professions.

20113 INTERPERSONAL COMMUNICATION. Consideration of effective speech communication strategies in interpersonal situations. Practice in the development of appropriate communication skills in face-to-face interactions.

20133 INSTRUCTIONAL COMMUNICATION. Emphasizes lecturing and discussion leadership in instructional settings. Recommended for students seeking teacher certification in any area as well as those interested in professional and non-professional teaching in such areas as religious education, employee training, management and community activities.

20193 LISTENING. Introduction to the reception and processing of information. Provides diagnosis of listening abilities and personal improvement in several areas of information processing related to daily communication.

30103 ARGUMENTATION AND DEBATE. *Prerequisite: 10123 or 20103 or permission of instructor.* Training in clear, logical, and persuasive communication; analysis, exposition, reasoning, and use of evidence; practice in effective delivery; classroom participation in debates.

30133 GROUP DISCUSSION. Participation in decision-making groups to develop skills related to effective group communication. Factors affecting group interactions are considered.

30153 INTERVIEWING. Applies dyadic communication principles to specialized interviewing situations. Skills development is stressed.

30163 ORGANIZATIONAL COMMUNICATION. Communication channels and networks in organizations; analysis of barriers to effective communication; solving practical communication problems; communication and dynamics in work groups.

30173 ADVANCED PUBLIC SPEAKING. *Prerequisite: 10123 or 20103 or permission of instructor.* Training in speech performance and speech evaluation skills. Theory and practical experience related to the formulation, presentation, and evaluation of informative and persuasive public speeches.

40103 COMMUNICATION IN BUSINESS AND THE PROFESSIONS. *Prerequisite: 10123.* Explores topics relevant to successful oral and written communication in today's dynamic business climate. Expressing ideas through discussion and written assignments will be emphasized.

40123 INTERNSHIP. *Prerequisite: Complete 15 hours in Speech Communication, including 9 hours in Communication in Human Relations emphasis courses; junior or senior standing; departmental approval.* Participation in professional internship experience approved by course instructor. Weekly meeting in classroom setting allows discussion and analysis of professional issues. Open to majors only.

Communication Studies

20223 EXPLORING HUMAN COMMUNICATION. Applies communication theory and practice to a broad range of communication phenomena in intrapersonal, interpersonal and public communication settings.

30213 SPECIAL ISSUES IN INTERPERSONAL COMMUNICATION. *Prerequisite: SPCO 20113.* Explores interpersonal communication within special contexts. Includes theoretical concepts applicable to gender, aging, and health.

30223 POWER AND INFLUENCE IN INTERPERSONAL COMMUNICATION. *Prerequisite: SPCO 10123 or permission of the instructor.* Explores theory and research related to social influence in relationships and communication processes.

30243 COMMUNICATION IN LASTING RELATIONSHIPS. *Prerequisite: 10123, 20223, or permission of instructor.* Examination of useful theory and research findings on the role of interpersonal communication in the initiation, maintenance and possible dissolution of lasting relationships.

40213 PERSPECTIVES ON ETHICS IN SPEECH COMMUNICATION. *Prerequisite: 10123.* Examination of contrasting models and standards of communication ethics. Students apply standards to specific problem situations in politics, advertising, writing, and interpersonal communication in making reasoned and informed personal judgments concerning the ethics of public and private communication.

40233 COMMUNICATION IN GROUP LEADERSHIP. *Prerequisite: 10123 and 30163 or permission of instructor.* Understanding the role of speech communication in the leadership process. Development of practical leadership communication skills and consideration of communication behavior demonstrated by leaders.

50203 PERSUASION. *Prerequisite: Senior or graduate standing.* Understanding the means by which individuals and audiences are influenced through communication. Considers psychological and sociological variables relevant to persuasion, compliance-gaining message strategies, and ethical standards used to evaluate persuasion, publicity and propaganda.

50223 NONVERBAL COMMUNICATION. *Prerequisite: Senior or graduate standing.* Review and critical analysis of theory and research applied to social, vocational and educational settings.

General Courses

10433 FREE SPEECH, HATE SPEECH AND OTHER VALUES IN PUBLIC AND PRIVATE COMMUNICATION. *Prerequisite: Freshman seminar.* Examination of contrasting models and standards of communication ethics. Students apply standards to specific problem situations in politics, advertising, interpersonal communication, and writing in making reasoned and informed personal judgments concerning the ethics of public and private communication.

30970 INDEPENDENT STUDY. *Prerequisite: Permission of instructor.* Independent work in specially designed projects not covered by regular course offerings. (1-6 semester hours, 3 hours maximum per semester.)

50970 SPECIAL PROBLEMS IN SPEECH COMMUNICATION. *Prerequisite: Senior or graduate standing.* Specialized work in student's area of concentration. (1-6 semester hours, 3 hours maximum per semester.)

Honors Courses

30003 HONORS SEMINAR: CURRENT DEVELOPMENTS IN SPEECH. Offered as an honors tutorial and to selected majors who are not honors candidates. Study of current issues in Speech Communication and related fields with opportunity for development of an area of specialization.

40003 HONORS RESEARCH PAPER. A research paper developing from the student's specialization in the Honor's Seminar.

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The School of Education

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The mission of the School of Education at TCU is to develop effective, ethical educators with a passion for learning. As professionals and active citizens in our community, we strive to create a humane and just society in which all individuals can develop their full potential. We are governed by an ethical code that documents our obligations to students, colleagues, and the community, which includes rationality and objectivity in our professional judgments and actions, civility and caring in our interactions with others, and encouragement of diverse views on issues of significance to society.

Consistent with the above values, our core beliefs connect a strong foundational knowledge base with professional practice. Professionals in education study and expand the knowledge base of effective practice and ground their practice in theory and research and acquire expertise through activities in diverse, field-based settings which are exemplars of practice. They also promote high student achievement and a passion for learning by mastering content knowledge and effective pedagogical skills, using multiple strategies, resources, and technologies to plan, implement, and assess instruction and to document effectiveness with students, and synthesizing knowledge from relevant, academically diverse perspectives and a variety of theoretical orientations and approaches. In addition, educational professionals provide service and leadership in diverse settings, ranging from local to global communities, seek to improve professional settings and society, and collaborate with representatives from various groups within and outside the educational community.

The School of Education offers studies culminating in the Bachelor of Science degree, as well as studies leading to teacher certification. The school offers majors in Early Childhood Education (EC-4th grade), Middle School Education (4th-8th grades), and Secondary Education (8th-12th grades). In addition, there is a program available for students interested in pursuing certification in Special Education. Courses are also offered for those students wishing to prepare for teaching in English as a Second Language (ESL) setting.

PROGRAM CHANGES

Programs listed in this bulletin reflect current State Board of Educator Certification (SBEC) standards. Minor changes may be made in these programs to meet additional certification standard adopted by SBEC.

Title II

The Title II report to the U.S. Department of Education that documents the effectiveness of the graduates of the teacher certification programs at TCU was not completed at the time this catalog was printed.

Admission to the Teacher Education Program

Note: Declaration of a major in Education is not synonymous with admission to the Teacher Education Program.

Students who plan to major in education or who plan to earn a teaching certificate must apply for admission to the Teacher Education Program of the University. **To be eligible to apply for admission** students must meet, or will meet during the semester in which they apply, the following requirements:

1. Completion of a minimum of 54 semester hours of course work.
2. Attainment of overall GPA of 2.5 on a minimum of 12 semester hours of course work at TCU.
3. Completion of a course in each of the following areas of study, SPCO (OC), Critical Inquiry (CI), and Education 20003 with a grade of C or better.
4. Granting of permission for a school district to complete a criminal record check.
5. Submission of proof of educational liability insurance for protection when assigned to work in schools with students.
6. Attainment of passing scores on one of the following tests of basic skills: TASP, ACT, or SAT.

Score levels that must be met on one of the tests of basic skills to qualify for admission to the Teacher Education Program

TASP

SAT

ACT

Reading - 245*
Math - 230
Writing - 220

Composite - 1070
Math - 500
Verbal - 500

Composite - 23
Math - 19
English - 19

*Students with scores between 230-245 may appeal for further consideration.

Students who wish to apply for admission to the Teacher Education Program should do so during the month of September for Fall admission and during the month of January for Spring admission. Students who fail to apply for admission at the appropriate times will be required to wait until the next application period. **Eligibility to apply does not insure admission to the Teacher Education Program.** All recommendations for admission will be contingent upon fulfillment of the established criteria. If a student's GPA falls below the minimum overall requirement of 2.5 or the student fails to meet other criteria, such as passing TASP scores, the student will be denied admission. Any student who is denied admission may reapply later if the criteria for admission are met.

Transfer Student Admission

To be eligible to apply for admission, students transferring from another institution must complete a minimum of 12 hours of course work at TCU with at least a 2.5 grade point average. Only 6 hours of the 12 hours may be taken in the School of Education.

Criminal Record Search

In accordance with Article 6252-13c, Texas Civil Statutes, the Commissioner of Education may suspend or revoke a teaching certificate for a person who has been convicted of a felony or misdemeanor for a crime which directly relates to the duties and responsibilities of the teaching profession. The Texas Education Agency and TCU (at the request of TEA) have begun a regular procedure for criminal record search of all certificate applicants.

TCU requires a criminal record search prior to placing students in field experiences. This requirement applies to pre-student teaching field experiences as well as to student teaching when required by a school district.

Liability Insurance

As students enter public and private schools for observations, tutoring, after school programs and student teaching it is important to be covered by liability insurance. Under Texas law both the student intern and teacher can be held responsible for a child's injury. For this reason, we strongly suggest TCU students be covered with liability insurance. This insurance is offered at low cost to teachers-in-training who belong to a teacher organization. Here at TCU, we have a school of education organization that covers liability insurance, costs of defending claims, and provides the cost of an attorney. The TCU chapter of The Texas Student Education Association (TSTA-NEA) offers the coverage with student membership. Other teacher organizations in the state such as ATPE, UEA, and AFT offer similar coverage.

Retention in the Teacher Education Program

Retention in the Teacher Education Program requires that a student maintain the following:

1. Overall grade point (TCU) average of at least 2.5
2. At least a 2.5 grade point average in education courses with a C or better in each course. Students must repeat any education course or course in the area of teaching responsibility in which a grade below C is earned.
3. Conduct must be consistent with the National Education Association Code of Professional Ethics as well as the Standard Practices for Texas Educators. If a student's behavior is inconsistent with these standards, a range of sanctions may be imposed. Dismissal from the Teacher Education Program can occur only by action of the Dean.

Any student unable to maintain the standards required for retention in the Teacher Education Program will receive written notification. Further enrollment in education courses may be restricted by the Dean of the School of Education or her/his designate. The student may re-apply for admission to the Teacher Education Program when standards are met.

Admission to Student Teaching

Any student who wishes to be considered for admission to student teaching must have met the following requirements:

1. Completion of at least 90 hours of course work.
2. A minimum overall grade point average (TCU) of 2.5 and a grade point average of at least 2.5 in education courses and in each area of specialization or teaching field with no grade lower than a C. A student who makes grades lower than C in an area of teaching responsibility or in an education course during the semester immediately preceding student teaching may be permitted to enroll for student teaching if the student's overall grade point average is at least 2.5. Although the student may be recommended for graduation, she or he must repeat the courses with a grade of C or better before being recommended for certification as a teacher.
3. Completion of at least two-thirds of the course work in each area of specialization or teaching field.
4. Submit application for student teaching by mid-term of the semester preceding enrollment in student teaching.

Any exception to these admission and retention standards must be reviewed by the Advisory Committee and

approved by the Dean, School of Education.

Pass/No Credit Option. All education courses to be applied toward the major in Education or required in conjunction with Teacher Certification may not be taken on the Pass/No Credit basis.

Texas Academic Skills Program (TASP). All students must pass the Texas Academic Skills Program (TASP) examination prior to admission to the Teacher Education Program. The test consists of three sections, reading, writing, and mathematics, which may be taken together or at separate test administrations. Students are encouraged to take the TASP as early as possible, preferably during their freshman year. Copies of the test registration bulletin may be obtained in the School of Education. Passing scores on this test is a prerequisite to Admission to Teacher Education Program.

Exceptions to the TASP are a combined score of 1070 or higher with at least 500 on verbal and math on the SAT or 23 on the ACT with English and math part scores equal to or greater than 19, if taken within 5 years.

Examination for the Certification of Educators in Texas (ExCET). All Teacher Education Program candidates applying for Texas Certification after graduation must pass proficiency tests (ExCET) in their fields of certification or endorsement and must pass a professional development test at the appropriate level-elementary or secondary.

Texas Oral Proficiency Test (TOPT). All individuals seeking Texas teaching certification with a major in bilingual education or Spanish or French must take the TOPT. This test must be taken in addition to the ExCET exams required. Candidates who attain the TOPT's passing standard of advanced oral proficiency or higher will be recommended for certification. Candidates who do not meet the TOPT's passing criteria, but who have met all other course work and certification requirements, may be recommended for a general elementary certificate or a single secondary teaching field.

Starpoint and Rise Schools

Starpoint and Rise Schools are laboratory schools for learning disabled students and preschoolers with developmental delays located on the Texas Christian University campus. Starpoint provides a quality educational program for a small number of students with learning disabilities in grades 1-4 and the Rise School serves young children aged 18 months to six years with Down Syndrome.

The mission of both schools is to serve as on campus training sites for TCU students preparing to become educators as well as a setting for educational research opportunities for faculty and staff. Both laboratory schools are members of the National Association of Laboratory Schools that delineates the functions of a laboratory school as research, experimentation, clinical teaching experience, curriculum development and staff development. Both Starpoint and Rise provide a variety of convenient volunteer, practicum and internship/student teaching opportunities to TCU students.

Honors Program

Education majors who plan to pursue Departmental honors must be members of the Honors Program and should enroll in EDUC 30003 during their junior year and EDUC 40003 during the fall semester of their senior year.

Reading Improvement Services

EDUC 10113 is a freshman level course designed to assist students with fundamental study skills. It is aimed primarily at incoming freshmen or transfer students who have had difficulty in previous college classes. Criteria for enrollment in the course are as follows:

1. Incoming Freshmen who score lower than 500 on SAT Verbal (17 on ACT English) and whose high school GPA is less than 2.5 will be permitted to enroll.
2. Entering transfer students will be permitted to enroll only by permission of the instructor.
3. Students with fewer than 36 hours of TCU course work will be permitted to enroll only if they have posted an overall TCU grade point average (GPA) below 2.25 the previous semester.
4. Students with 36 hours or more of TCU course work will be permitted to enroll only by permission of the instructor.
5. All other students who do not meet the above criteria and wish to be admitted to the course may do so only with permission.

School of Education Career Services Center

The Career Services Center maintains contact with public and private schools seeking teachers, administrators, and other types of educational personnel. Registration with the Center entitles students to file a summary of their academic records, together with requested recommendations from teachers and others acquainted with their qualifications. Former students may use the Center in seeking positions. The Center provides on-campus interviews with school districts in Texas, as well as outside the state. Over 90 school districts conduct interviews on campus each year.

Student Organizations

Within the School of Education, student organizations have been established for the purposes of promoting professional goals and interests, as well as providing recreation and fellowship among members. Kappa Delta Pi, an

honor society, invites to membership those junior, senior and graduate students or teachers who possess high scholarship ability. TCU's chapter of the Texas Student Education Association provides students with associate membership in the National Education Association and the Texas State Teachers Association. TSEA provides students with the opportunity to meet and discuss professional concerns and goals with experienced teachers in the profession. The Student Council for Exceptional Children is an organization that is open to all interested in Special Education.

Core Curriculum Requirements

For Majors in the School of Education Seeking Teacher Certification

I. Foundations

A.1. English 10803, English 20803 - Six semester hours.

A.2. Writing Emphasis - Six semester hours of upper division courses designated as "writing emphasis" in University Curriculum Requirements (UCR).

B. Mathematics - Three semester hours from MATH 10033, 10043, 10283, 10524, 20524, 20063.

II. Explorations

A. Physical and Life Sciences - Six semester hours of laboratory sciences designated 'as approved for the UCR'. Middle School Education and Secondary School Education majors are required to take an additional 3 semester hours of nonlab science.

B. Social Sciences - Political Science 10133, and three semesters of social sciences as approved for the UCR.

C. Cultural Heritage - Fifteen semester hours to include: three semester hours in Religion Studies; six semester hours in U. S. History (HIST 10603, 10613); three semester hours in Critical Inquiry in courses designated by the UCR; three semester hours in Fine Arts in courses designated by the UCR.

D. Language and Literature - A minimum of nine semester hours to be distributed: SPCO 10123 or 20103 or 20133, and six hours of sophomore-level English or above in courses designated UCR.

III. Physical Education

Two semester hours designated UCR: one semester hour of health and one hour of Kinesiology activity or two semester hours of health.

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Majors and Certifications

[Major in Early Childhood Education](#)
[Major in Education of Exceptional Children](#)
[Major in Middle School Education](#)
[Major in Secondary Education](#)
[Minor in Educational Studies](#)
[All-Level Teacher Certification](#)
[Three-Two Program in Education](#)
[English as a Second Language \(ESL\)](#)
[Teacher Certification for Post-Baccalaureate Students](#)

The School of Education offers a Bachelor of Science degree in Education with majors in Early Childhood, the Education of Exceptional Students, Middle School Education and Secondary Education. After the successful completion of these studies, the candidate is eligible to apply for a Texas teaching certificate. The department also offers a sequence of professional development courses leading to all-level and secondary education certification.

In addition to the prescribed course work within the major and minor fields of study, students seeking teacher certification must (1) submit passing TASP, SAT or ACT scores (see Admission guidelines) prior to taking any professional development courses; (2) complete prescribed field experiences in area schools and pass appropriate ExCET tests. These requirements can usually be met within the framework of the University Curriculum Requirements (UCR).

PASS/NO CREDIT POLICY: No Education course may be taken Pass/No Credit by anyone who intends to apply the course toward Teacher Certification. This policy does not affect Pass/No Credit options related to other courses outside the School of Education.

A. Bachelor of Science in Education with Major in Early Childhood Education

The Early Childhood major is designed for students who plan to teach in early childhood settings (EC through grade 4). Students focus on developmentally appropriate pedagogy for young children. Field-based coursework provides prospective teachers with significant experiences in urban schools. Students interested in this major may select from the following two options:

Generalist EC-4: This option is designed for students who will teach in diverse early childhood settings including English as a Second Language classrooms. Students must pass required state examinations in order to be awarded a Generalist EC-4 Teaching Certificate with English as a Second Language qualifications.

Bilingual Generalist EC-4: This option is designed for students who will teach in bilingual (Spanish) early childhood settings. Students wishing to pursue this degree option must demonstrate their proficiency in Spanish as a condition for admission to the School of Education. The Department of Spanish and Latin American Studies conducts the Spanish language assessment. Students must pass required state examinations, including the Texas Oral Proficiency Test (TOPT), in order to be awarded a Bilingual Generalist EC-4 Teaching Certificate. Candidates who do not meet the passing criteria for the TOPT, but meet all other coursework and certification requirements, will be eligible for a Generalist EC-4 teaching certificate with English as a Second Language qualifications.

Course Requirements

A. Major in Early Childhood Education, Generalist EC-4 Option

1. University Core	50 hours
2. Specific Course Requirements	76 hours

EDUC 20003 Critical Investigation of Teaching
 EDUC 30113 Introduction to Educational Technology
 EDUC 30143 Child Development
 EDEC 30103 Introduction to Early Childhood Education
 EDUC 30123 Educational Psychology
 EDSP 30603 Study of Exceptional Children
 EDEC 30020 Scientific and Mathematical Thinking through Play and Creativity
 EDEC 40019 Promoting Language and Literacy
 EDEC 40133 Mathematics in the Elementary School
 EDEC 40154 Developmentally Appropriate Pedagogy for Social Studies
 EDEC 30001 Professional Practice Seminar
 EDEC 50010 Learner-Centered Teaching
 EDEC 30001 Professional Practice Seminar
 EDEC 50020 Professional Induction

Total Semester Hours	126 hours
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B. Major in Early Childhood Education, Bilingual Generalist EC-4 Option

1. University Core	50 hours
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2. Specific Course Requirements**82 hours**

EDUC 20003 Critical Investigation of Teaching
 EDUC 30113 Introduction to Educational Technology
 EDUC 30143 Child Development
 EDEC 30103 Introduction to Early Childhood Education
 EDUC 30123 Educational Psychology
 EDSP 30603 Study of Exceptional Children
 EDEC 30020 Scientific and Mathematical Thinking through Play and Creativity
 EDEC 40019 Promoting Language and Literacy
 EDEC 40133 Mathematics in the Elementary School
 EDEC 40154 Developmentally Appropriate Pedagogy for Social Studies
 EDEC 30001 Professional Practice Seminar
 EDEC 50010 Learner-Centered Teaching
 EDEC 30001 Professional Practice Seminar
 EDEC 50020 Professional Induction
 EDEL 50213 Teaching in Bilingual/Crosscultural Schools
 SPAN 50433 Teaching of Second and Foreign Languages

Total Semester Hours**132 hours****B. Bachelor of Science in Education with a Major in Education of Exceptional Children**

The major in the Education of Exceptional Students is designed for students who plan to teach regular classes in elementary school in grades one through six or work in the area of special education in grades Pre-K through twelve.

1. University Curriculum Requirements**47 hours****2. Major in Education of Exceptional Students****30 hours****Special Education/Related Courses:**

EDSP 30603 Study of Exceptional Students
 EDSP 40303 Assessment in Schools
 EDSP 40613 Educational Programs for Exceptional Students
 EDSP 40623 Families, Schools and Communities Partnership
 EDSP 40643 Curricular Issues for Special Populations
 EDSP 40663 Classroom Management
 EDRE 50223 Practicum in Reading
 PHED 40700 Practicum in Adapted Physical Education
 PSYC 10213 General Psychology
 PSYC Elective

Related Education/Professional Education Courses**30 hours**

EDUC 30123 Educational Psychology
 EDUC 30143 Child and Adolescent Development
 EDRE 40113 Literacy Education in Elementary Schools
 EDRE 40843 Children's Literature
 EDUC 30013 Foundations of Education
 EDEL 30143 Science in the Elementary School
 EDEL 40133 Mathematics in the Elementary School
 EDEL 40153 Social Studies in the Elementary School
 EDEL 40990 Student Teaching in the Elementary School

3. Subjects Related to Elementary**18 hours**

SPAN 10153 First Semester College Spanish
 SPAN10163 Second Semester College Spanish*
 MATH 20053 Fundamentals of Modern Math
 Choose 3 hours from courses in History or Geography (In addition to those taken for UCR)
 Choose 3 hours from courses in Biology, Geology, Physics or Chemistry (In addition to those taken for UCR)
 Choose 3 hours from the following:

KINE 20403 Physical Education for Elementary School Children
 ART 10803 Elementary School Art
 MUSI 10223 Basic Music

*Note: SPAN 10033 Basic Conversational Spanish may substitute for SPAN 10163.

4. Electives**5 hours****Total Semester Hours for Degree****130 hours****C. Bachelor of Science in Education with Major in Middle School Education****Requirements for a B.S. in Education with a major in middle school education 124-128 total**

Major. 33 semester hours.

EDUC 20003 Critical Investigations of Teaching
 EDUC 30113 Introduction to Educational Technology
 EDMS 30153 Adolescent Development
 EDMS 30163 Secondary Educational Psychology
 EDSP 30603 Study of Exceptional Students
 EDMS 30014 Professional Roles and Responsibilities
 EDMS 40213 Promoting Literacy in the Content Subjects
 EDMS 50014 Effective Teaching and Classroom Implementation
 EDMS 30001 Professional Practice Seminar EDMS 40980 Student Teaching

Certification Areas. Students who are majoring in middle school education must seek certification in one of the following areas:

ENGLISH/LANGUAGE ARTS (51 hrs)

ENGL 10803 Introductory Composition, Writing from Sources (UCR requirement)
 ENGL 20803 Intermediate Composition, Writing within Communities (UCR requirement)
 ENGL 20403 Major British Writers ENGL 20503 Major American Writers
 ENGL 20733 Science Fiction
 ENGL 30283 Cyberliteracy
 ENGL 30313 Introduction to Language Study
 ENGL 50243 Teaching of Writing
 ENGL 40323 History of the Language **OR** ENGL 40333 Language and Society
 JOUR 10103 Communication in Society
 SPCO 10123 Basic Speech Communication (can be used to fulfill UCR requirement) **OR** SPCO 20133 Instructional Communication
 SPCO 20113 Interpersonal Communication **OR** SPCO 30133 Group Discussion
 EDMS 30023 Promoting Literacy in the Middle School (certification requirement)
 EDMS 50013 Analysis of Literacy Problems
 EDMS 50153 Literature for Adolescents EDMS 50223 Practicum in Reading
 EDMS 50503 Developing Communication Competencies of Linguistically and Culturally Diverse Students

MATH (29-31 hrs)

MATH 10123 Discrete Mathematics
 MATH 10524 Calculus I
 MATH 20053 Fundamentals of Modern Mathematics
 MATH 20063 Topics in Modern Mathematics
 MATH 40073 History of Mathematics
 MATH 40353 Geometry and Topology

Associated Requirements:

EDMS 40433 Senior Seminar in Middle School Education: Math

Select TWO courses from the following:

MATH 20525 Calculus II
 MATH 30224 Linear Algebra
 MATH 30803 Probability and Statistics I

MATH/SCIENCE (52-54 hrs)

BIOL 10003 Contemporary Issues in Biology
 BIOL 30613 Natural History of North America
 PHYS 20053 Physics of Music and Speech
 PHYS 20073 Introductory Astronomy
 PHYS 20083 Introductory Astronomy
 CHEM 10163 General Chemistry for Non-Majors
 GEOL 10113 Understanding the Earth
 GEOL 10143 Earth Resources and the Environment
 MATH 10123 Discrete Mathematics
 MATH 10524 Calculus I
 MATH 20053 Fundamentals of Modern Mathematics
 MATH 20063 Topics in Modern Mathematics
 MATH 40073 History of Mathematics
 MATH 40353 Geometry and Topology

Associated Requirements:

EDMS 40433 Senior Seminar in Middle School Education: Math
 EDMS 40533 Senior Seminar in Middle School Education: Science

Select ONE course from the following:

MATH 20525 Calculus II
 MATH 30224 Linear Algebra
 MATH 30803 Probability and Statistics I

SCIENCE (38-39 hrs)

BIOL 10003 Contemporary Issues in Biology
 BIOL 10504-10514 Principles of Life Sciences
 BIOL 30613 Natural History of North America
 PHYS 20053 Physics of Music and Speech
 PHYS 20073 Introductory Astronomy
 PHYS 20083 Introductory Astronomy
 CHEM 10163 General Chemistry for Non-Majors
 GEOL 10113 Understanding the Earth
 GEOL 10143 Earth Resources and the Environment

Associated Requirements:

EDMS 40533 Senior Seminar in Middle School Education: Science

Select ONE course from the following:

MATH 10283 Applied Calculus
 MATH 10524 Calculus

SOCIAL STUDIES (42 hrs)

ANTH 20623 Introductory Cultural Anthropology
 ECON 10223 Introductory Microeconomics
 ECON 10233 Introductory Macroeconomics
 ECON 30413 Economic Development of the United States (new title: American Economic History)
 GEOG 10003 World Regional Geography
 HIST 10603 United States History: A Survey to 1877
 HIST 10613 United States History: A Survey since 1877
 HIST 10003 History of Civilization
 HIST 10013 History of Civilization
 HIST 40743 History of Texas
 POSC 10133 American and Texas Government
 SOCI 20213 Introductory Sociology
 SOCI 30343 American Minority Groups

Associated Requirements:

EDSE 40633 Senior Seminar in Middle School Education: Social Studies

D. Bachelor of Science in Education with a Major in Secondary Education

Requirements for a B.S. in Education with a major in middle school education.....124-128 total semester hours.

Major (33 semester hours)

EDUC 20003 Critical Investigations of Teaching
 EDUC 30113 Introduction to Educational Technology
 EDSE 30001 Professional Practice Seminar
 EDSE 30014 Professional Roles and Responsibilities
 EDSE 30153 Adolescent Development
 EDSE 30163 Secondary Educational Psychology
 EDSP 30603 Study of Exceptional Students
 EDSE 40213 Promoting Literacy in the Content Subjects
 EDSE 50014 Effective Teaching and Classroom Implementation
 EDSE 40980 Student Teaching

ENGLISH/LANGUAGE ARTS (57 hours)

ENGL 10803 Introductory Composition, Writing from Sources
 ENGL 20803 Intermediate Composition, Writing with Communities
 ENGL 20503 Major American Writers
 ENGL 30103 Introduction to Literary Theory
 ENGL 30113 British Literature to 1800
 ENGL 30123 British Literature since 1800
 ENGL 30223 Technical Writing and Documentary Design
 ENGL 30283 Cyberliteracy
 ENGL 30313 Introduction to Language Study
 ENGL 50243 Teaching Writing
 ENGL 40323 History of the Language **OR** ENGL 40333 Language and Society
 SPCO 10123 Basic Speech Communication **OR** SPCO 20133 Instructional Communication
 SPCO 20113 Interpersonal Communication **OR** SPCO 30133 Group Discussion
 JOUR 10103 Communication in Society
 EDSE 40213 Promoting Literacy in the Content Subjects
 EDSE 50013 Analysis of Literacy Problems
 EDSE 50153 Literature for Adolescents
 EDSE 50223 Practicum in Reading

EDSE 50503 Developing Communication Competencies of Linguistically and Culturally Diverse Students

LIFE SCIENCE (47-49 hrs)

BIOL 10003 Contemporary Issues in Biology
BIOL 10504-10514 Principles of Life Sciences
BIOL 30403 Ecology
BIOL 30603 Cellular, Molecular, and Developmental Biology
BIOL 30303 Microbiology
BIOL 30504 Plant Biology
BIOL 40123 Genetics

Select TWO courses from the following:

BIOL 30104 Comparative Invertebrate Zoology
BIOL 30124 Biology of the Vertebrates
BIOL 30404 Comparative Vertebrate Anatomy
BIOL 30613 Natural History of North America
BIOL 30323 Marine Science
BIOL 30233 Economic Botany

Associated Requirements:

MATH 10283 Applied Calculus
EDSE 40533 Senior Seminar in Secondary Education: Science
CHEM 10113-10123 General Chemistry
CHEM 10122 General Chemistry Laboratory OR CHEM 10114 General Chemistry Honors
CHEM 10124 General Chemistry Honors

PHYSICAL SCIENCE (42 hrs)

GEOL 10113 Understanding the Earth
GEOL 10143 Earth Resources and the Environment
GEOL 30133 Historical Geology I
CHEM 10113-10123 General Chemistry
CHEM 10122 General Chemistry Laboratory OR CHEM 10114 General Chemistry Honors
CHEM 10124 General Chemistry Honors
PHYS 10151-10153 General Physics I
PHYS 10161-10163 General Physics II OR PHYS 20471-20473 Physics I Mechanics
PHYS 20481-20483 Physics II Electromagnetism and Optics
PHYS 20073-20083 Introductory Astronomy
PHYS 30491-30493 Physics III Modern Physics

Associated Requirements:

MATH 10524 Calculus
EDSE 40533 Senior Seminar in Secondary Education: Science

SCIENCE (56-57 hrs)

BIOL 10003 Contemporary Issues in Biology
BIOL 10504-10514 Principles of Life Science
BIOL 30403 Ecology
BIOL 30603 Cellular, Molecular, and Developmental Biology OR BIOL 40123 Genetics
PHYS 10151-10153 General Physics I
PHYS 10161-10163 General Physics II
PHYS 20073-20083 Introductory Astronomy
CHEM 10113-10123 General Chemistry
CHEM 10122 General Chemistry Laboratory OR CHEM 10114-10124 General Chemistry Honors
CHEM 30122-30123 Organic Chemistry
GEOL 10113 Understanding the Earth
GEOL 10143 Earth Resources and the Environment

Associated Requirements

EDSE 40533 Senior Seminar in Secondary Education: Science
MATH 10283 Applied Calculus OR MATH 10524 Calculus

SOCIAL STUDIES (51 hrs)

ANTH 20623 Introductory Cultural Anthropology
ECON 10223 Introductory Microeconomics
ECON 10233 Introductory Macroeconomics
ECON 30413 American Economic History
GEOG 10003 World Regional Geography
HIST 10003 History of Civilization
HIST 10013 History of Civilization: A Survey from 1500 to present
HIST 10603 United States History: A Survey to 1877
HIST 10613 United States History: A Survey since 1877
HIST 40743 History of Texas
POSC 10133 American and Texas Government

POSC 20203 Introduction to Political Theory
SOC 20213 Introductory Sociology
POSC 30103 Topics in American Politics
SOC 30343 American Minority Groups

Select ONE upper division course from Economics, History, or Political Science. Associated Requirements:

EDSE 40633 Senior Seminar in Secondary Education: Social Studies

TECHNOLOGY (39 hrs)

COSC 10203 Computer Literacy
COSC 10403 Introduction to Computer Science
COSC 20203 Techniques in Computer Science
COSC 20533 Computers, Technology, and Society
CISC 20503 Multimedia Authoring
CISC 20703 Introductory Applied Structures
CISC 30153 Interface Design and Scripting Fundamentals
JOUR 10103 Communication in Society
JOUR 30453 Information Graphics
EDUC 30113 Introduction to Educational Technology

Select THREE upper division courses from technology-related content courses.

E. Minor in Educational Studies

Students who are pursuing a traditional University major in an area that is taught in the elementary school and who are sMinor in Educational Studies. Students who major in a content area outside the School of Education may obtain a minor in Educational Studies by completing 21 hours of the required Professional Development courses if approved by the College in the content major.

The professional development courses that constitute the 21-hour minor include:

EDSE 30153 Adolescent Development
EDSE 30163 Secondary Educational Psychology
EDSP 30603 Study of Exceptional Students
EDSE 30014 Professional Roles and Responsibilities
EDSE 40213 Promoting Literacy in the Content Subjects
EDSE 50014 Effective Teaching and Classroom Implementation
EDSE 30001 Professional Practice Seminar

G. All-Level Teacher Certification

All-Level certification enables students to teach in grades K-12. Majors include Art, Music, Physical Education and Habilitation of the Deaf. Each of these academic specialization's, with the exception of Physical Education, requires completion of 48 semester hours of which 24 semester hours must be upper division. Physical Education requires completion of 36 semester hours of which 18 must be upper division. All-Level certification students follow the same sequence of education courses as secondary certification students with the exception of student teaching. All-Level certification students do student teaching in both the elementary and secondary schools.

The professional development courses that must be taken in education are as follows:

EDUC 30013 Foundations of Education
EDUC 30123 Educational Psychology
EDUC 30143 Child and Adolescent Development
EDSP 30603 Study of Exceptional Students
EDRE 40113 Literacy Education in the Elementary School or
EDRE 40213 Promoting Literacy in the Content Subjects
EDSE 50013 Instructional Planning
EDEL 40990 Student Teaching in the Elementary School
EDSE 40980 Student Teaching in the Secondary School

H. Three-Two Program in Education

The School of Education, in conjunction with appropriate departments across other University schools and colleges, offers a program in which the student seeking teaching certification can earn both a Bachelor's degree and a Master's degree (M.Ed.) in a five-year period. The program is designed to provide students with the necessary coursework to complete the requirements for teacher certification, area of specialization (for Elementary Certification) or teaching field content areas (for Secondary Certification), and other degree requirements for both the Bachelor's and Master's degrees. (Note: Students intending to pursue the Three-Two Program should make their plans known as early as possible to the appropriate College or School to ensure proper advising.)

Program Requirements:

During the first three years students enroll in undergraduate courses leading to the completion of University Curriculum Requirements (UCR) and their chosen specialization or teaching fields(s). Students must have completed a minimum of 95-101 hours by the end of their Junior year to be considered for admission to the Three-Two

Program.

Students interested in pursuing the Three-Two must first apply for admission to the Teacher Education Program by the junior year. The same requirements that apply to undergraduate admission apply to Three-Two students. (Please refer to the [Undergraduate Studies Bulletin](#) for *Admission to Teacher Education Program* requirements.) In addition, a TCU grade point average of 3.0 is necessary for admission to the Three-Two Program.

If admitted to the graduate program, the student begins coursework toward the M.Ed. degree in the fourth year of study at TCU. During this year, the student enrolls in 12 semester hours of upper division or graduate level coursework. During year five, the student completes remaining graduate course work to fulfill degree requirements. After successful completion of the first year of graduate work, the student may petition the appropriate dean to be awarded the undergraduate degree.

I. English as a Second Language (ESL)

The English as Second Language (ESL) is designed for students who intend to teach learners for whom English is a second language. The ESL Endorsement may be added to a valid Texas teacher certificate, special education certificate, or a vocational education certificate.

The coursework consists of 12 semester hours:

SPAN	50033 Teaching of Second and Foreign Languages	3
EDEL/ EDSE	50503 Developing Communication Competencies of Linguistically and Culturally Diverse Students	3
EDEL/ EDSE	50513 Curriculum and Instruction in the Second language Learning Classroom	3
EDUC	50003 Diversity in American Education	3

In addition to the above coursework, students are required to complete a student teaching experience in an approved ESL classroom. One year of successful classroom teaching experience in an approved ESL or bilingual education program may be substituted for student teaching.

J. Teacher Certification for Post-Baccalaureate Students

The Post-Baccalaureate program, designed in accordance with Texas Education Agency policy, leads to initial teacher certification. Students who wish to be admitted to this program must meet the following qualifications:

1. Possess at least a bachelor's degree from a regionally accredited institution.
2. Have an overall grade point average of at least 2.5 on a 4.0 system at the baccalaureate level.
3. Have demonstrated basic skills on a state mandated test (TASP) in reading, writing and mathematics. Applicants will not be permitted to enroll in Education courses until they present evidence of having passed all three sections of this test.

A certification plan will be completed by the certification officer stipulating all areas of deficiency.

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Non-major Certifications

[Certification for students in majors outside of the School of Education](#)
[Areas of Specialization for All Level Certification](#)
[Courses of Instruction](#)

Certification for students in majors outside of the School of Education

Middle school and secondary school majors who plan to become certified in one of the following must major in a content area outside the School of Education. In addition, they are required to complete a minor in educational studies (refer to course listings for minor).

Art

10053 or 10063 Survey of Art	3
10103 Drawing	3
10123 Design and Color	3
10133 Three Dimensional Design	3
20143 Painting	3
20163 Printmaking: Etching or 20173 Printmaking: Lithography or 20183 Printmaking: Screenprinting	3
Select 6 semester hours from:	6
20100 Life Drawing	
20213 Ceramics	
20243 Sculpture	
20743 Photography	
30013 Approaches in Studio Art	3
30803 The Child and Visual Arts	3
40803 Essentials of the Visual Arts	3
30000 or above Advanced Art History	3
30000 or above Studio Elective	3
Total hours	39

Business Administration

ACCT 20153 Financial Accounting	3
ACCT 20163 Managerial Accounting	3
MANA 20103 Business Applications of Information Systems	3
MANA 20153 Legal and Social Environment of Business	3
FINA 30153 Financial Management	3
MANA 30153 Organizational Management	3
MARK 30153 Marketing Management	3
Select three hours from:	3
ACCT 30303 Introduction to Federal Taxation	
FINA 30303 Risk Management	
FINA 30313 Real Estate Principles	
FINA 30203 Money and Banking	
MANA 40123 Small Business	
MANA 40233 Skills for Effective Management	
MARK 30253 Selling and Sales Management	
Total hours	24

Computer Science

10403 Introduction to Computer Science	3
20203 Techniques in Computer Science	3
20803 Data Structures	3
30203 Computer Systems Fundamentals	3
30000 or above Advance Computer elective	12
Total hours	24

Health

HLTH 10603 Anatomical Kinesiology	3
HLTH 20203 Health in a Changing Society	3
HLTH 20233 Drugs and Human Health	3
HLTH 20603 Measurement and Evaluation in Kinesiology	3

HLTH 30203 Health and Stress Management	3
HLTH 30213 Health Aspects of Human Sexuality	3
HLTH 40203 Study of Human Disease	3
KINE 40623 Physical Education for Secondary School Youth	3
Total hours	24

Also must have current Red Cross First Aid and CPR Certificate.

History (secondary)

10003-10013 History of Civilization	6
10603-10613 Survey of United States History	6
30743 History of Texas	3
30000 Or above with a maximum of 6 hours in any one area	9
Total hours	24

Journalism (secondary)

10103 Communication in Society	3
10113 Media Writing & Editing I	3
20103 Media Writing & Editing II	3
30203 Reporting	3
30233 Photojournalism	3
30453 Information Graphics	3
30853 Historical Development of Mass Media	3
40523 Law & Ethics of Mass Communication	3
Total hours	24

Mathematics

10524 Calculus I	4
20524 Calculus II	4
30224 Introductory Linear Algebra	4
30803 Elements of Probability and Statistics	3
50303 Studies in Geometry-Topology	3
Select 6 semester hours (at least 3 from 30000 or above) from among 10043 and those courses which count toward a mathematics major	6
Total hours	24

Physical Education

KINE 10103 Foundations of Kinesiology	3
KINE 10603 Anatomical Kinesiology	3
KINE 20503 Motor Behavior	3
KINE 20613 Measurement and Evaluation in Kinesiology	3
KINE 30633 Exercise Physiology or 3623 Biomechanics	3
KINE 30803 Adapted Physical Activity	3
KINE 40623 Physical Education for Secondary School Youth	3
KINE 40343 Team and Group Sports	3
Total hours	24

Also must have current Red Cross First Aid and CPR Certificate.

Psychology

10213 General Psychology or 10514-10524 Principles of Behavior	3-4
30503 Behavioral Research	3
Select 18 hours from:	18

- 30323 Child Psychology
- 30343 Social Psychology WE
- 30353 Social Psychology
- 30363 Abnormal Psychology
- 30414 Experimental Psychology: Learning
- 30423 Experimental Psychology: Perception
- 30433 Experimental Psychology: Motivation
- 30443 Psychology of Personality
- 30453 Memory and Cognition
- 30603 Historical Foundations of Modern Psychology
- 40403 Psychology of Counseling
- 40413 Cognitive Development
- 40433 Developmental Psychology
- 40463 Behavioral Modification
- 40493 Introduction to Psychological Measurement
- 40950 Contemporary Topics in Psychology

Total hours	24-25
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Reading

30003 Early Literacy	3
50143 Reading in the Secondary School	3
40213 Promoting Literacy in the Content Subjects	3
50153 Literature for Adolescents	3
50223 Practicum in Reading	3
40413 Trend in Literacy Education	3
50313 Foundations of Literacy	3
40513 Supervised Practices in Teaching	3
Total hours	24

Sociology*Required:*

20213 Introductory Sociology	3
30383 Research Methods in Sociology	3
30833 Sociological Theory	3
Fifteen semester hours (at least 6 hours upper division):	15

20223 Social Problems	
30003 Honors Seminar in Sociological Ideas	
30223 Contemporary Topics	
30243 Violence in Sociology	
30303 Marriage and Family	
30313 Criminology	
30343 American Minority Groups	
30393 Sociology of Corrections	
30423 Media, Self, and Society	
30443 Media Images of Drug and Alcohol Abuse	
30463 Popular Culture	
30563 Deviance and Social Control	
30643 Sociology of Aging	
30683 Sociology of Religion	
30743 Men, Women and Society	
30803 Victimology	
30903 Law and Society	
40003 Senior Honors Research Paper	
40373 Social Psychology: Sociological Approaches	
40383 Seminar in Family Research	
40463 Juvenile Delinquency	
40523 Health, Illness and Medicine	
40533 Sociology of Mental Illness	
40610 Directed Study in Sociology	
40803 Social Inequality	

Total hours	24
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Spanish

30423 Spanish for Spanish Speakers or 30433 Advanced Grammar	3
40983 Senior Seminar: Grammar, Composition, and Conversation	3
40993 Senior Seminar: Culture and Literature	3
30000 or above	15
Total hours	27

Note: TOPT passing score required. Students pursuing this specialization must contact the department of Spanish and Latin American Studies regarding oral language proficiency assessment.

Special Education (Generic)

EDSP 30603 Study of Exceptional Children	3
EDEC 40303 Assessment in Schools	3
EDSP 40613 Educational Programs for Exceptional Children	3
EDSP 40623 Families, Schools and Communities in Partnership	3
EDSP 40643 Curricular Issues for Special Populations	3
EDSP 40663 Classroom Management	3
EDRE 50223 Practicum in Reading	3
KINE 40600 Practicum in Adapted Physical Education	3
Total hours	24

Speech Communications

10123 Survey of Communication or 20133 Instructional Communication	3
20113 Interpersonal Communication	3
20193 Listening	3
30103 Argumentation and Debate	3
30133 Group Discussion	3
30173 Advanced Public Speaking	3

Select one upper division course:	3
RTVF 10112 History of Broadcasting	
RTVF 10123 History of Film	
RTVF 10143 Intro to Film and Television Aesthetics	
Total hours	33

Theatre (secondary)

10001 Theatre Symposium and Production	1
10601 Theatre Production (4 semesters)	4
10053 Survey of Theatre	3
10603 Stagecraft	3
10613 Theatre Graphics	3
20333 Acting I	3
20713 Practical/Costuming	3
30103 Theatre History I	3
30113 Theatre History II	3
30403 Directing	3
30503 Introduction to Stage Lighting	3
Total hours	32

Dance (Single Teaching Field)

BALT 10001 Music for Dancers	1
MODA 10422 Performance and Ensemble	2
THEA 10603 Stagecraft	3
BALT 20142/20152 Jazz	4
BALT 20161 Cultural Dance	1
MODA 30203/30213 Modern Dance Technique	6
BALT 30103/30113 Ballet Technique	6
MODA 30253 Elements of Composition	3
BALT 40173 Dance History	3
BALT 40183 20th Century Dance	3
MODA 40220 Special Problems (Senior Project)	3
MODA 50400 Aesthetics	1
Total hours	36
Associated Requirements:	12

Courses in a field closely related to the student's program of study. Courses will be chosen in consultation with a Dance Department advisor from the following list or other related courses:

MUSI 10003 Music Theory for Non-Majors	
THEA 10603 Stagecraft	
ART 10063 Survey of Art History	
MUSI 10053 Survey of Music	
THEA 40553 Dance Lighting	
THEA 40800 Individual Study in Theatre	
Total hours	48

One technique course to be taken per semester.

Music (Single Teaching Field)

10201, 10211 Elementary Ear Training	2
10203, 10213 Elementary Theory	6
20201, 20211 Advanced Ear Training	2
20203, 20213 Advanced Theory	6
30202 Form and Analysis	2
30312 Orchestration	2
20613, 30613, 30623 History of Music	9
10000-20000 Studio Performance	8
20311 Field Experience in Music	1
20512 Introduction to Conducting	2
30313 Elementary Music	3

Students select either Choral or Instrumental concentration: PLUS, Choral Concentration

10021 Class Guitar	1
10081 Functional Instrumental Technique	1
10171, 10181 Diction	2
20511 Analytical Listening	1
30512 Choral Conducting	2
30912, 30922 Choral Organization & Administration	4
10010, 10020, 10030, 10040 Ensembles (Select Eight, each .5 s.h.)	4
30000-40000 Studio Performance	6
Total Hours (Choral)	68

PLUS, Instrumental Concentration

10071 Percussion Techniques	1
20051 Class Voice	1
10051 String Techniques I	1
30151 Woodwind Techniques 1	1
30161 Brass Techniques 1	1
Select two from:	2
10061 String Techniques	
30171 Woodwind Techniques	
30181 Brass Techniques	
30522 Instrumental Conducting	
30812, 30822 Instrumental Organization & Technique	
10050, 10060, 10080, 10090,10100, 10110, 10120, 10160,10170, 10180, 10190 Ensembles	4
(Select Eight, each .5 sch.)	
30000-40000 Studio Performance	8
Total Hours (Instrumental)	64

Areas of Specialization for All Level Certification

All-Level certification is designed for students who wish to teach either in an elementary or secondary school setting or both. Students are certified to teach at all levels in the schools only in the subject of certification, i.e., art, music, physical education, speech pathology, hearing impaired.

Art

10071 Percussion Techniques	1
20051 Class Voice	1
10051 String Techniques I	1
30151 Woodwind Techniques 1	1
30161 Brass Techniques 1	1
Select two from:	2
10050, 10060, 10080, 10090,10100, 10110, 10120, 10160,10170, 10180, 10190 Ensembles	4
(Select Eight, each .5 sch.)	
30000-40000 Studio Performance	8
Total Hours (Instrumental)	64

Music

10201, 10211 Elementary Ear Training	2
10203, 10213 Elementary Theory	6
20201, 20211 Advanced Ear Training	2
20203, 20213 Advanced Theory	6
30202 Form and Analysis	2
30312 Orchestration	2
20613, 30613, 30623 History of Music	9
10000-20000 Studio Performance	8
20311 Field Experience in Music	1
20512 Introduction to Conducting	2
30313 Elementary Music	3

Students select either Choral or Instrumental concentration: *PLUS, Choral Concentration*

10021 Class Guitar	1
10081 Functional Instrumental Technique	1
10171, 10181 Diction	2
20511 Analytical Listening	1
30512 Choral Conducting	2
30912, 30922 Choral Organization & Administration	4
10010, 10020, 10030, 10040 Ensembles (Select Eight each .5 s.h.)	4
30000-40000 Studio Performance	6
Total Hours (Choral)	64

Plus, Instrumental Concentration

10071 Percussion Techniques	1
20051 Class Voice	1
10051 String Techniques 1	1
30151 Woodwind Techniques 1	1
30161 Brass Techniques 1	1

Select two from:

10061 String Techniques	2
30171 Woodwind Techniques	2
30181 Brass Techniques	2

30522 Instrumental Conducting	2
30812, 30822 Instrumental Organization & Technique	4
10050, 10060, 10080, 10090, 10100, 10110, 10120, 10160, 10170, 10180, 10190	4
Ensembles (Select Eight, each .5 s.h.)	
30000-40000 Studio Performance	8
Total Hours (Instrumental)	68

Physical Education

KINE 10103 Foundations of Kinesiology	3
KINE 10603 Anatomical Kinesiology	3
KINE 20403 Physical Education for Elementary School Children	3
KINE 20503 Motor Behavior	3
KINE 20613 Measurement and Evaluation in Kinesiology	3
KINE 30423 Motor Development	3
KINE 30623 Biomechanics	3
KINE 30633 Exercise Physiology	3
KINE 30803 Adapted Physical Activity	3
KINE 40313 Individual and Dual Sports	3
KINE 40343 Team & Group Sports	3
KINE 40623 Physical Education for Secondary School Youth	3
Total hours	36

Hearing Impaired

20303 Speech & Hearing Science	3
20333 Phonetics	3
10343 Basic Sign Language	3
30303 Anatomy & Physiology of the Speech & Hearing Mechanism	3
30343 Aural Rehabilitation	3
40340 Clinical Practice in Teaching the Deaf/Hard of Hearing I	4
30333 Language Development in Children	3
30353 Teaching Elementary School Subjects to Deaf Children	3
30363 Audiology	3
30393 Language Development for the Deaf/Hard of Hearing	3
40323 Advanced Language Development for the Deaf/Hard of Hearing	3
40333 Teaching Speech to the Deaf/Hard of Hearing	3
40350 Clinical Practice in Teaching the Deaf/Hard of Hearing II	2
Total hours	39

The following is a complete list of courses offered by this department. Go to Class Search on Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

Early Childhood Courses

EDEC 30001 PROFESSIONAL PRACTICE SEMINAR. Issues in professional and legal responsibilities, certification standards, teacher portfolio development, finding employment, and professional associations are topics that will be considered. Two semesters of EDEC 30001 are required for Early Childhood Education majors. This course is available only for Pass/Fail grades.

EDEC 30020 SCIENTIFIC AND MATHEMATICAL THINKING THROUGH PLAY CREATIVITY. The Scientific and Mathematical Thinking through Play and Creativity block meets at an elementary school where you will observe and teach in classrooms at different grade levels, as well as participate in class lectures and activities. This block is designed to prepare you for the challenges of teaching in a child-centered environment that supports creative development and scientific and mathematical learning through play. (10 hours credit)

EDEC 30103 INTRODUCTION TO EARLY CHILDHOOD EDUCATION. *Prerequisite: Admission to the Teacher Education Program or written permission of the Dean, School of Education.* Prerequisite for all 40000 and 50000 courses in Education of Young Children. Directed toward affecting prospective early childhood teachers' insights with regard to classroom behavior in teaching; dealing with the factors of child learning; and examining children's development. Classroom practicum is required.

EDEC 30143 CHILD DEVELOPMENT. Introduction to theories of child development, emphasizing infancy to middle childhood. Physical, cognitive, emotional and social aspects of development will be considered. Includes observations and interactions with children in diverse settings.

EDEC 40019 PROMOTING LANGUAGE AND LITERACY. Study of the nature of literacy and second language learning processes and the relationship among these processes, young children, teachers, curriculum, and instruction. Emphasis is given to the guidance of young children as they progress through the continuum of language and literacy abilities from preschool through grade four. (9 hours credit)

EDEC 40133 MATHEMATICS IN THE ELEMENTARY SCHOOL. *Prerequisites: Admission to Teacher Education or written permission of the Dean, School of Education.* Methods of teaching mathematical concepts, skills, and problem-solving techniques appropriate for the elementary school.

EDEC 40154 DEVELOPMENTALLY APPROPRIATE SOCIAL STUDIES. *Prerequisite: Admission to Teacher Education or written permission of the Dean, School of Education.* Examines the rationale for the inclusion of the

social studies within the early elementary curriculum, and reviews selected fundamental concepts and methods of inquiry associated with the social sciences. Emphasis will also be placed on the development of curricular materials.

EDEC 40303 ASSESSMENT IN SCHOOLS. *Prerequisite: Admission to the Teacher Education Program or written permission of the Dean, School of Education.* Provides a foundation for understanding the basic concepts and procedures of educational assessment and evaluation as they pertain to teaching children and informing instruction. This includes an understanding of the assumptions and logic of traditional formal approaches to assessment, informal classroom-based approaches, and understanding how formal and informal assessment procedures are used in evaluation and monitoring the instructional needs of individual students as well as in identifying and teaching students with disabilities. (Cross listed with EDSP 40303.)

EDEC 40623 FAMILIES, SCHOOL, AND COMMUNITIES IN PARTNERSHIP. *Prerequisite: Admission to the Teacher Education Program or written permission of the Dean, School of Education.* Strategies for involving parents in the educational process. Interagency/multidiscipline collaboration with diverse families with children developing both typically and atypically. Communication strategies, parent's rights, and family support are emphasized. (Cross listed with EDSP 40623.)

EDEC 40973 STUDENT TEACHING IN EARLY CHILDHOOD. *Prerequisites: Admission to Teacher Education and eligibility for Admission into the Student Teaching Program.* All day observation and supervised teaching for a period of 6 weeks in the public schools in a Kindergarten or Pre-kindergarten classroom. Accompanying weekly discussion session and a two-week seminar on campus prior to beginning student teaching for the purpose of developing competencies and professional growth.

EDEC 50010 LEARNER-CENTERED TEACHING. This block melds content instruction and a semester-long practicum. In addition to working in classrooms or in other ways with students, under the supervision of teachers and SOE faculty, SOE faculty will cover content regarding: classroom management, assessment, parent and family relationships and issues, and professional roles and responsibilities (15 hours credit)

EDEC 50020 PROFESSIONAL INDUCTION. During this semester, students will fulfill the State's requirements for student teaching. In addition, they will receive instruction in developing and implementing curricula that meet the developmental, cultural and linguistic needs of all learners. (15 hours credit)

EDEC 50123 EDUCATIONAL PROGRAMS FOR YOUNG CHILDREN. *Prerequisite: Admission to the Teacher Education Program or written permission of the Dean, School of Education.* Evaluation and development of educational programs for young children as affected by current social and economic trends. Emphasis on parent, community, school and interschool relationships, and on teacher responsibility in curriculum development.

EDEC 50133 PLAY AND CREATIVITY. *Prerequisite: Admission to the Teacher Education Program or written permission of the Dean, School of Education.* Materials, techniques, and resources used in early childhood programs for developing the affective, cognitive, and motor domains of young children. Study will include research on importance of play as a vehicle for learning.

EDEC 50143 EARLY CHILDHOOD CURRICULUM. *Prerequisite: Admission to the Teacher Education Program or written permission of the Dean, School of Education.* The study of basic principles underlying curriculum construction and instructional practices in early childhood and primary education.

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Courses of Instruction

[Early Childhood Courses](#)
[Elementary Education Courses](#)
[Reading Courses](#)
[Special Education Courses](#)
[Educational Foundations Courses](#)

The following is a complete list of courses offered by this department. Go to [Class Search on Registrar's Page](#) to see which courses are being taught this semester.

Courses of Instruction

EDEC 30001 PROFESSIONAL PRACTICE SEMINAR. Issues in professional and legal responsibilities, certification standards, teacher portfolio development, finding employment, and professional associations are topics that will be considered. Two semesters of EDEC 30001 are required for Early Childhood Education majors. This course is available only for Pass/Fail grades.

EDEC 30020 SCIENTIFIC AND MATHEMATICAL THINKING THROUGH PLAY CREATIVITY. The Scientific and Mathematical Thinking through Play and Creativity block meets at an elementary school where you will observe and teach in classrooms at different grade levels, as well as participate in class lectures and activities. This block is designed to prepare you for the challenges of teaching in a child-centered environment that supports creative development and scientific and mathematical learning through play. (10 hours credit)

EDEC 30103 INTRODUCTION TO EARLY CHILDHOOD EDUCATION. *Prerequisite: Admission to the Teacher Education Program or written permission of the Dean, School of Education.* Prerequisite for all 40000 and 50000 courses in Education of Young Children. Directed toward affecting prospective early childhood teachers' insights with regard to classroom behavior in teaching; dealing with the factors of child learning; and examining children's development. Classroom practicum is required.

EDEC 30143 CHILD DEVELOPMENT. Introduction to theories of child development, emphasizing infancy to middle childhood. Physical, cognitive, emotional and social aspects of development will be considered. Includes observations and interactions with children in diverse settings.

EDEC 40019 PROMOTING LANGUAGE AND LITERACY. Study of the nature of literacy and second language learning processes and the relationship among these processes, young children, teachers, curriculum, and instruction. Emphasis is given to the guidance of young children as they progress through the continuum of language and literacy abilities from preschool through grade four. (9 hours credit)

EDEC 40133 MATHEMATICS IN THE ELEMENTARY SCHOOL. *Prerequisites: Admission to Teacher Education or written permission of the Dean, School of Education.* Methods of teaching mathematical concepts, skills, and problem-solving techniques appropriate for the elementary school.

EDEC 40154 DEVELOPMENTALLY APPROPRIATE SOCIAL STUDIES. *Prerequisite: Admission to Teacher Education or written permission of the Dean, School of Education.* Examines the rationale for the inclusion of the social studies within the early elementary curriculum, and reviews selected fundamental concepts and methods of inquiry associated with the social sciences. Emphasis will also be placed on the development of curricular materials.

EDEC 40303 ASSESSMENT IN SCHOOLS. *Prerequisite: Admission to the Teacher Education Program or written permission of the Dean, School of Education.* Provides a foundation for understanding the basic concepts and procedures of educational assessment and evaluation as they pertain to teaching children and informing instruction. This includes an understanding of the assumptions and logic of traditional formal approaches to assessment, informal classroom-based approaches, and understanding how formal and informal assessment procedures are used in evaluation and monitoring the instructional needs of individual students as well as in identifying and teaching students with disabilities. (Cross listed with EDSP 40303.)

EDEC 40623 FAMILIES, SCHOOL, AND COMMUNITIES IN PARTNERSHIP. *Prerequisite: Admission to the Teacher Education Program or written permission of the Dean, School of Education.* Strategies for involving parents in the educational process. Interagency/multidiscipline collaboration with diverse families with children developing both typically and atypically. Communication strategies, parent's rights, and family support are emphasized. (Cross listed with EDSP 40623.)

EDEC 40973 STUDENT TEACHING IN EARLY CHILDHOOD. *Prerequisites: Admission to Teacher Education and eligibility for Admission into the Student Teaching Program.* All day observation and supervised teaching for a period of 6 weeks in the public schools in a Kindergarten or Pre-kindergarten classroom. Accompanying weekly discussion session and a two-week seminar on campus prior to beginning student teaching for the purpose of developing competencies and professional growth.

EDEC 50010 LEARNER-CENTERED TEACHING. This block melds content instruction and a semester-long practicum. In addition to working in classrooms or in other ways with students, under the supervision of teachers and SOE faculty, SOE faculty will cover content regarding: classroom management, assessment, parent and family relationships and issues, and professional roles and responsibilities (15 hours credit)

EDEC 50020 PROFESSIONAL INDUCTION. During this semester, students will fulfill the State's requirements for

student teaching. In addition, they will receive instruction in developing and implementing curricula that meet the developmental, cultural and linguistic needs of all learners. (15 hours credit)

EDEC 50123 EDUCATIONAL PROGRAMS FOR YOUNG CHILDREN. *Prerequisite: Admission to the Teacher Education Program or written permission of the Dean, School of Education.* Evaluation and development of educational programs for young children as affected by current social and economic trends. Emphasis on parent, community, school and interschool relationships, and on teacher responsibility in curriculum development.

EDEC 50133 PLAY AND CREATIVITY. *Prerequisite: Admission to the Teacher Education Program or written permission of the Dean, School of Education.* Materials, techniques, and resources used in early childhood programs for developing the affective, cognitive, and motor domains of young children. Study will include research on importance of play as a vehicle for learning.

EDEC 50143 EARLY CHILDHOOD CURRICULUM. *Prerequisite: Admission to the Teacher Education Program or written permission of the Dean, School of Education.* The study of basic principles underlying curriculum construction and instructional practices in early childhood and primary education.

Elementary Education Courses

EDEL 30143 SCIENCE IN THE ELEMENTARY SCHOOL. *Prerequisite: Admission to Teacher Education or written permission of the Dean, School of Education.* Effective teaching in elementary school science necessitates professional consciousness of what is taught (knowledge), who is taught (psychology), and how the teaching occurs (methodology and curriculum).

EDEL 30153 TEACHING LANGUAGE ARTS IN THE ELEMENTARY SCHOOL. *Prerequisite: Admission to Teacher Education or written permission of the Dean, School of Education.* Materials and methods for developing oral and written expression; emphasis on the function of language arts in pupil development in the total program.

EDEL 40133 MATHEMATICS IN THE ELEMENTARY SCHOOL. *Prerequisites: Admission to Teacher Education or major in Math/Science Education, or written permission of the Dean, School of Education.* Methods of teaching mathematical concepts, skills, and problem-solving techniques appropriate for the elementary school.

EDEL 40153 SOCIAL STUDIES IN THE ELEMENTARY SCHOOL. *Prerequisite: Admission to Teacher Education or written permission of the Dean, School of Education.* Examines the rationale for the inclusion of the social studies within the elementary curriculum, and reviews selected fundamental concepts and methods of inquiry associated with the social sciences. Emphasis will also be placed on the development of curricular materials.

EDEL 40990 STUDENT TEACHING IN THE ELEMENTARY SCHOOL. *Prerequisites: Admission to Teacher Education and eligibility for Admission into the Student Teaching Program.* All day observation and supervised teaching for a period of 12 weeks in the public schools. Accompanying weekly discussion session and a two-week seminar on campus prior to beginning student teaching for the purpose of developing competencies and professional growth. (3-6 sem. hours.) Middle School Education Courses

EDMS 30001 PROFESSIONAL PRACTICE SEMINAR. A review of professional development practices and trends in education in preparation for the EXCET examination.

EDMS 30014 PROFESSIONAL ROLES AND RESPONSIBILITIES. The focus of this course will be on philosophical and historical foundations of (U.S.) education with an emphasis on the moral and ethical responsibilities of the school educator. The evolution of assessment and the call (and need) for literacy from the educator role and responsibility perspective, will also be examined.

EDMS 30153 ADOLESCENT DEVELOPMENT. An examination of the adolescent from cognitive, emotional, and social perspectives will promote a better understanding of this particular age group for the future educator. Emphasis will also be placed on learning theories and implications for use in the middle school and high school classroom.

EDMS 30163 SECONDARY EDUCATIONAL PSYCHOLOGY. This course will prepare the future educators for their roles as reflective practitioners. It will further a better understanding of human developmental processes through an examination of physical, cognitive, emotional and social aspects of maturation. Special attention will be given to student learning as it relates to diversity and the needs of all students in an "inclusive" classroom environment.

EDMS 40213 PROMOTING LITERACY IN THE CONTENT SUBJECTS. A course designed to acquaint preservice teachers with strategies which facilitate middle school and high school students' use of reading and writing to learn from information texts.

EDMS 40433 SENIOR SEMINAR IN MIDDLE SCHOOL EDUCATION: MATH. Instructional strategies, issues, and educational trends as they relate to the teaching of math will be reviewed and addressed in this course.

EDMS 40533 SENIOR SEMINAR IN MIDDLE SCHOOL EDUCATION: SCIENCE. Instructional strategies, issues, and educational trends as they relate to the teaching of science will be reviewed and addressed in this course.

EDMS 40633 SENIOR SEMINAR IN MIDDLE SCHOOL EDUCATION: SOCIAL STUDIES. Instructional strategies, issues, and educational trends as they relate to the teaching of social studies will be reviewed and addressed in this course.

EDMS 50014 EFFECTIVE TEACHING AND CLASSROOM IMPLEMENTATION. As a part of the effective teacher model, this course will focus on instructional design and implementation, motivation of students to promote and enhance learning in the classroom; management issues pertinent to student behavior and learning outcomes; and preparation of a variety of formal and informal assessment strategies.

EDMS 40980 STUDENT TEACHING IN THE SECONDARY SCHOOL. Future educators will practice teach in two

different school settings for a period of 12 weeks. Depending on the semester in which they student teach, future educators will participate in either the beginning or the ending of the public-school year. In addition to practice teaching responsibilities, students will participate in on-campus seminars to address instruction, management, and assessment issues.

Reading Courses

EDRE 10113 COLLEGE READING TECHNIQUES. *Prerequisites:* 1. Incoming freshmen who score lower than 500 on the SAT Verbal (17 on ACT English) and whose high school GPA is less than 2.5 will be permitted to enroll. 2. Entering transfer students will be permitted to enroll only by permission of the instructor. 3. Students with fewer than 36 hours of TCU course work will be permitted to enroll only if they have posted an overall TCU grade point average (GPA) below 2.25 the previous semester. 4. Students with 36 hours or more of TCU course work will be permitted to enroll only by permission of the instructor. 5. All other students who do not meet the above criteria and wish to be admitted to the course may do so only with the permission of the chair of the Curriculum and Instruction Department. A course designed to improve the reading and study skills of freshmen and sophomores with a GPA below 2.25. May not be counted for teaching certificate.

EDRE 10003 AMONG SCHOOLCHILDREN: EXPLORATIONS INTO THE ART OF TEACHING. This seminar explores what it means to be a great teacher in the Information Age, how master teaching skills are developed, and the role of teachers in society. The focus of the course will be on two aspects: teaching as an art and teaching as a science. As an art form, concentration will be on the inspiring methods of great lecturers, storytellers and performers in the classroom. Several master teachers will share their perspectives on how to excite and inspire young learners. Teaching as a science will be investigated by looking at the mysteries of helping youngsters learn to read and write.

EDRE 30003 EARLY LITERACY. *Prerequisite:* Admission to the Teacher Education Program or written permission of the Dean, School of Education. An introduction to the study of the development of early literacy and of teaching strategies to facilitate this development. The primary emphasis of this course is on language development, especially reading and writing, for children ages five through eight years. Traditional and whole language practices related to early literacy development are discussed. Recommended for future teachers interested in the early elementary grades.

EDRE 40113 LITERACY EDUCATION IN THE ELEMENTARY SCHOOL. *Prerequisite:* Admission to the Teacher Education Program or written permission of the Dean, School of Education. Study of the nature of literacy processes, and the relationships among these processes, learners, and teachers. Emphasis given to the guidance of students as they progress through the continuum of literacy abilities in Kindergarten through grade eight. Introduces recent research, philosophies of instruction, curriculum development, literature, and assessments that can be used to improve students' reading, writing and language abilities. Teaching elementary students in a field-based experience is one component of this course.

EDRE 40213 PROMOTING LITERACY IN THE CONTENT SUBJECTS. *Prerequisite:* Admission to the Teacher Education Program or written permission of the Dean, School of Education. A course designed to acquaint preservice teachers with strategies which facilitate elementary and secondary students' use of reading and writing to learn from information texts. A component of this course is a field-based practicum.

EDRE 40413 TRENDS IN LITERACY EDUCATION. *Prerequisites:* EDRE 40113, EDRE 40213, or by permission of the instructor and Admission to the Teacher Education Program or written permission of the Dean, School of Education. A course designed to highlight selected areas related to working with differing student populations. Emphasis on emerging issues in language, student motivation, and cognitive and cultural factors which relate to the development of literacy. Organizational practices and instructional methods for meeting needs of second-language speakers will be discussed.

EDRE 40513 SUPERVISED PRACTICES IN TEACHING READING-SECONDARY SCHOOLS. *Prerequisites:* EDRE 50143, EDRE 40213 or by permission of instructor and Admission to the Teacher Education Program or written permission of the Dean, School of Education. Supervised field experiences in reading programs in appropriate institutions. The purpose of these experiences is to provide teaching and evaluation strategies to individuals and to groups.

EDRE 40843 CHILDREN'S LITERATURE. *Prerequisite:* Admission to the Teacher Education Program or written permission of the Dean, School of Education. Wide reading of classical and contemporary types of children's literature, with special attention to principles of selection and use in the elementary school curriculum.

EDRE 50013 ANALYSIS OF LITERACY PROBLEMS. *Prerequisites:* EDRE 60053, EDRE 60153, or EDRE 50313 and Admission to the Teacher Education Program or written permission of the Dean, School of Education. Theory and techniques for using a variety of assessment strategies related to literacy development. Discussion and practice will be based on the interpretation of elementary and secondary students' performance on a variety of literacy tasks.

EDRE 50143 READING IN THE SECONDARY SCHOOL. *Prerequisite:* Admission to the Teacher Education Program or written permission of the Dean, School of Education. Materials and methods for developing reading skills of the secondary school student in the various curriculum areas.

EDRE 50153 LITERATURE FOR ADOLESCENTS. *Prerequisite:* Admission to the Teacher Education Program or written permission of the Dean, School of Education. Survey of reading interests of secondary school youth. Wide reading of classical and contemporary books for adolescents in the several teaching fields with specific attention to principles of selection and use in the middle school and high school.

EDRE 50223 PRACTICUM IN READING. *Prerequisite:* Admission to the Teacher Education Program or written permission of the Dean, School of Education. Clinical techniques and procedures of remedial and diagnostic teaching of reading.

EDRE 50313 FOUNDATIONS OF LITERACY. *Prerequisite:* Admission to the Teacher Education Program or

written permission of the Dean, School of Education. The study of the theoretical bases for literacy instruction. Research from linguistics, cognitive psychology, and sociology will be studied as related to recommendations for practices in literacy instruction. Secondary Education Courses

EDSE 30001 PROFESSIONAL PRACTICE SEMINAR. A review of professional development practices and trends in education in preparation for the EXCET examination.

EDSE 30014 PROFESSIONAL ROLES AND RESPONSIBILITIES. The focus of this course will be on philosophical and historical foundations of (U.S.) education with an emphasis on the moral and ethical responsibilities of the school educator. The evolution of assessment and the call (and need) for literacy, from the educator role and responsibility perspective, will also be examined.

EDSE 30153 ADOLESCENT DEVELOPMENT. An examination of the adolescent from cognitive, emotional, and social perspectives will promote a better understanding of this particular age group for the future educator. Emphasis will also be placed on learning theories and implications for use in the middle school and high school classroom.

EDSE 30163 SECONDARY EDUCATIONAL PSYCHOLOGY. This course will prepare the future educators for their roles as reflective practitioners. It will further a better understanding of human developmental processes through an examination of physical, cognitive, emotional and social aspects of maturation. Special attention will be given to student learning as it relates to diversity and the needs of all students in an "inclusive" classroom environment.

EDSE 40213 PROMOTING LITERACY IN THE CONTENT SUBJECTS. A course designed to acquaint preservice teachers with strategies which facilitate middle school and high school students' use of reading and writing to learn from information texts.

EDSE 40123 SENIOR SEMINAR IN SECONDARY EDUCATION. *Prerequisite: Admission to Teacher Education Program or written permission of the Dean, School of Education and permission of instructor.* Trends and problems in secondary education. Seminar discussion, individual and group report preparation to bring into focus the student's entire college experience in the light of their higher chosen vocation.

EDSE 40433 SENIOR SEMINAR IN SECONDARY EDUCATION: MATH. Instructional strategies, issues, and educational trends as they relate to the teaching of math will be reviewed and addressed in this course.

EDSE 40533 SENIOR SEMINAR IN SECONDARY EDUCATION: SCIENCE. Instructional strategies, issues, and educational trends as they relate to the teaching of science will be reviewed and addressed in this course.

EDSE 40633 SENIOR SEMINAR IN SECONDARY EDUCATION: SOCIAL STUDIES. Instructional strategies, issues, and educational trends as they relate to the teaching of social studies will be reviewed and addressed in this course.

EDSE 50013 INSTRUCTIONAL PLANNING. *Prerequisite: Admission to Teacher Education Program or written permission of the Dean, School of Education.* Developing instructional strategies; diagnosing and correcting learning difficulties; appraising pupil achievement; organizing the classroom for learning; controlling misbehavior; justifying teacher plans. Each student will schedule 10 hours for school observations.

EDSE 50014 EFFECTIVE TEACHING AND CLASSROOM IMPLEMENTATION. As a part of the effective teacher model, this course will focus on instructional design and implementation, motivation of students to promote and enhance learning in the classroom; management issues pertinent to student behavior and learning outcomes; and preparation of a variety of formal and informal assessment strategies.

EDSE 40980 STUDENT TEACHING IN THE SECONDARY SCHOOL. Future educators will practice teach in two different school settings for a period of 12 weeks. Depending on the semester in which they student teach, future educators will participate in either the beginning or the ending of the public-school year. In addition to practice teaching responsibilities, students will participate in on-campus seminars to address instruction, management, and assessment issues.

Special Education Courses

EDSP 30603 STUDY OF EXCEPTIONAL STUDENTS. *Prerequisite: Admission to the Teacher Education Program or written permission of the Dean, School of Education.* A survey of programs for school-aged students with mental, physical and emotional deviations.

EDSP 40303 ASSESSMENT IN SCHOOLS. *Prerequisite: Admission to the Teacher Education Program or written permission of the Dean, School of Education.* Provides a foundation for understanding the basic concepts and procedures of educational assessment and evaluation as they pertain to teaching children and informing instruction. This includes an understanding of the assumptions and logic of traditional formal approaches to assessment, informal classroom-based approaches, and understanding how formal and informal assessment procedures are used in evaluation and monitoring the instructional needs of individual students as well as in identifying and teaching students with disabilities. (Cross listed EDEC 40303.)

EDSP 40613 EDUCATIONAL PROGRAMS FOR EXCEPTIONAL STUDENTS. *Prerequisite: EDSP 30603 and Admission to the Teacher Education Program or written permission of the Dean, School of Education.* Programs, strategies and techniques for teaching special populations will be examined, implemented and evaluated. Appropriate standardized and informal tests will be administered.

EDSP 40623 FAMILIES, SCHOOL, AND COMMUNITIES IN PARTNERSHIP. *Prerequisite: Admission to the Teacher Education Program or written permission of the Dean, School of Education.* Strategies for involving parents in the educational process. Interagency/multidiscipline collaboration with diverse families with children developing both typically and atypically. Communication strategies, parent's rights, and family support are emphasized. (Cross listed with EDEC 40623)

EDSP 40643 CURRICULAR ISSUES FOR SPECIAL POPULATIONS. *Prerequisite: Admission to the Teacher Education Program or written permission of the Dean, School of Education.* Characteristics, issues and frameworks for the selection, adaptation and evaluation of curricular products for special populations will be examined, implemented and evaluated.

EDSP 40663 CLASSROOM MANAGEMENT. *Prerequisite: Admission to the Teacher Education Program or written permission of the Dean, School of Education.* An examination of behavior problems of handicapped students with emphasis on developing alternative strategies for dealing with behavior problems.

EDSP 50000 DIRECTED STUDY IN SPECIAL EDUCATION. *Prerequisite: Admission to the Teacher Education Program or written permission of the Dean, School of Education.* Directed study in areas of student's interests and needs (1-3 sem. hours).

EDSP 50013 EDUCATING STUDENTS WITH DISABILITIES IN THE MAINSTREAM. *Prerequisite: Admission to the Teacher Education Program or written permission of the Dean, School of Education.* How to adapt methods, techniques and classroom environments to help children with disabilities to be more successful in regular and special education classrooms.

EDSP 50663 MOTIVATING AND MANAGING STUDENTS IN THE CLASSROOM. *Prerequisite: Admission to the Teacher Education Program or written permission of the Dean, School of Education.* Research-based methods for creating positive classroom and school climates, organizing and managing classrooms, improving instruction, dealing with classroom discipline problems, and developing prosocial behaviors in children and youth.

Educational Foundations Courses

EDUC 10443 GETTING INTO OTHER PEOPLE'S WORLDS: PERSPECTIVES ON RESEARCH. An exploration of a variety of research perspectives through the eyes of university scholars. Faculty from various departments across campus will talk about their work. Students will visit the research sites and get firsthand experience of how each kind of research is conducted.

EDUC 10433 THINKING, LEARNING, UNDERSTANDING AND INVENTING. An exploration of how humans, learn, think, understand and invent. The seminar will include activities in TCU's Learning Lab located at the Fort Worth Museum of Science and History and study of the work of Jean Piaget.

EDUC 20003 TEACHING AND LEARNING IN SCHOOLS. This course will provide a careful and systematic exploration of teaching in public schools and a better understanding of the variety of student learning demands that teachers face. Moreover, class members will be expected to assess the quality and appropriateness of schooling processes for children at all levels from pre-school through high school. These judgments will be made based on extended field experiences in public schools, as well as study of materials regarding best practices in schools.

EDUC 20113 COMPUTERS AND TELECOMPUTING NETWORKS AS EDUCATION TOOLS. *Prerequisite: Ability to use a word processor. Use of computers and networks for personal learning.* Develop skills in locating, organizing, evaluating, and communicating information. Emphasis on use of library resources and the Internet. Includes electronic mail, electronic discussion groups, file transfer utilities, and databases, as well as information location and presentation tools such as the World Wide Web. Issues and implications of using these resources will also be discussed.

EDUC 30003 HONORS TUTORIAL. An examination of a major issue in education. This course is only offered as a tutorial and the topic is determined in consultation with an instructor. Arrangements for this course must be made prior to enrollment.

EDUC 30013 FOUNDATIONS OF EDUCATION. *Prerequisite: Admission to the Teacher Education Program or written permission of the Dean, School of Education.* Historical and philosophical foundations of education in the United States. Impact of social forces on the schools during modern times.

EDUC 30113 INTRODUCTION TO EDUCATIONAL TECHNOLOGY. An introduction to using educational technology for professional productivity and instructional purposes. Includes familiarity and operational skills with word processing, spreadsheets, databases, graphics, desktop publishing, telecommunications, instructional software and multimedia authoring programs.

EDUC 30123 EDUCATIONAL PSYCHOLOGY. Psychological bases of the education process; theories of learning; individual differences. Includes observations of children and adolescents in informal settings.

EDUC 30143 CHILD AND ADOLESCENT DEVELOPMENT. Introduction to theories of child and adolescent development emphasizing ages 5-18. Physical, cognitive, emotional and social aspects of development will be considered. Includes observations of children and adolescents in informal settings.

EDUC 30153 THE ADOLESCENT LEARNER. A course which helps students to come to a better understanding of adolescence and the adolescent learner. Observation of an adolescent will form a backdrop for examining research and theories about adolescence and constructing more sophisticated views of the adolescent learner.

EDUC 30163 THE ADOLESCENT LEARNER IN SCHOOLS. The course will examine ways in which classroom environments can be constructed to support student learning. Particular attention will be given to the teacher's relationship to the subject taught and how that relationship translates to teaching. Observation of an adolescent will form a backdrop for examining research and theories about adolescence and constructing more sophisticated views of the adolescent learner.

EDUC 40003 HONORS RESEARCH PAPER. An independent project on a major issue in education resulting in the Senior Honors Thesis.

EDUC 40353 EDUCATION RESEARCH. *Prerequisite: Admission to the Teacher Education Program or written*

permission of the Dean, School of Education. The course constitutes a study of how research perspectives inform our knowledge of teaching and learning. Students are expected to develop an appreciation of the complexities of the research process, ways of informing research questions, and a sense of the power and constraints of those perspectives within which educational questions are pursued.

EDUC 50003 DIVERSITY IN AMERICAN EDUCATION. *Prerequisite: Admission to the Teacher Education Program or written permission of the Dean, School of Education.* This course will equip educators with the necessary skills for diverse school environments. It focuses on developing an awareness of how education is connected to wider structures of social, cultural and economic life and encourages not only critical examination, but also discussion of alternatives to the present reality.

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College of Fine Arts

[Degrees Offered](#)
[Requirements for Graduation](#)
[Student Organizations](#)

Since the founding of TCU more than a century ago, Fine Arts studies have been a vital and integral part of the University's educational program. Today, more than 455 students concentrate their studies within the three departments and one school that have been designated as part of one of the newest colleges in the University: The College of Fine Arts. Degree programs are available in Art and Art History, Ballet and Modern Dance, Music, and Theatre Arts. The academic programs of the college exact an appropriate balance between professional training and liberal arts studies. Personal counseling and relatively small classes allow the faculty to give attention to the work of each student.

Organization and Program

The College of Fine Arts is organized into three departments and one school offering 24 major fields of concentration. The departments provide professional training in vocational fields for students planning careers and serious avocational training and for those who wish to attain artistic ability without professional intent.

Schools

[School of Music](#)

Performance
Piano, Organ, Voice, Band and Orchestral Instruments
Piano Pedagogy
Theory and Composition
Music Education
Church Music
Opera

Departments

[Department of Art and Art History](#)

Drawing, Design and Painting
Three Dimensional Studies
Ceramics
Photography
Printmaking
Sculpture
Graphic Design
Art Education
Art History

[Department of Ballet and Modern Dance](#)

Classical and Contemporary Ballet
Modern Dance
Character, Jazz, Choreography
History of Dance

[Department of Theatre](#)

Acting
Directing
Stagecraft
Costuming
Make-up
Scenic Design
Lighting
History of Theatre
Music Theatre

Degrees Offered

Bachelor of Fine Arts degree with a major in graphic design, studio art, or art with an emphasis in art education; ballet or modern dance; theatre or theatre-television.

Bachelor of Arts degree with a major in art history, music, or theatre. (The Bachelor of Arts degree requires

completion of sophomore-level foreign language.)

Bachelor of Music degree with a major in performance, piano pedagogy, theory/composition, music history, or church music.

Bachelor of Music Education degree.

3/2 B.A., B.S./MBA Program in Business

The College of Fine Arts and M.J. Neeley School of Business offer a combined degree in Art History, Music, or Theatre and a master's degree in Business Administration (MBA). The Three-Two Program, as it is called, takes five years to complete.

Students interested in the program spend the first three years in the College of Fine Arts completing the University Curriculum Requirements (including MATH 1283 and ECON 2103 and 2113) and meeting the requirements of their major field. During the third year of study, application is made to the MBA program. To be considered for admission, applicants must have completed, or anticipate completing by the end of the third year, a minimum of 100 hours in non-business courses and finished all major requirements and core requirements. Applicants must submit the usual application materials, including scores from the Graduate Management Admission Test (GMAT), and must present above-average academic records.

If admitted, a student enters the MBA phase of the Three-Two program in the fourth year of study at TCU. The first year of the MBA, comprising 24 hours of course work, meets the minor requirements of the undergraduate degree. After successful completion of the first year of the MBA program, the student may petition the Dean of the College of Fine Arts to be awarded the undergraduate degree.

Multiple Majors

The following applies to all students majoring in the College of Fine Arts. Students who wish to pursue an additional major in the college must satisfy all degree requirements of the additional major, including courses specified in the UCR as particular to that degree and major.

Students who wish to pursue an additional degree in another college, if additional majors are permitted in that college, must complete all degree requirements for each major, including courses specified in the UCR as particular to each degree and major.

Students outside the College of Fine Arts whose home college permits an additional major in the College of Fine Arts must complete all degree requirements for the additional major, including courses specified in the UCR for that particular degree and major.

Special Programs. The Performance Certificate and the Artist Diploma are available for pianists with exceptional performance ability. See School of Music section for details.

Requirements for Graduation

Students should request a degree plan from the Office of the Dean at the end of the sophomore or the beginning of the junior year. The "Intent to Graduate" form, available from the Office of the Dean, should be completed no later than a semester preceding expected graduation.

Approval of the department chairman is required for all nontraditional courses, i.e., special problems, independent study, research problems, etc.

Beyond the studies specified for each major, the bachelor's degree is built on the 47-semester-hour University Curriculum Requirements that apply to all University graduates.

The University Curriculum Requirements (UCR)

I. FOUNDATIONS: 9 credit hours

A. The Writing Requirement: 6 credit hours and the Writing Emphasis Experience

1. Writing Workshop: 6 credit hours
2. Writing Emphasis Experience: 6 credit hours

B. Mathematics: 3 credit hours

II. EXPLORATIONS: 36 credit hours

A. Physical and Life Sciences: 6 credit hours minimum, 9 hours maximum

B. Social Sciences: 6 credit hours minimum, 9 hours maximum

C. Cultural Heritage: 12 credit hours minimum, 15 hours maximum

1. Religion Studies: 3 credit hours minimum

2. Historical Studies: 3 credit hour minimum

3. Critical Inquiry: 3 credit hours minimum

4. Fine Arts: 3 credit hours minimum

D. Language and Literature: 6 credit hours minimum, 9 hours maximum

1. Foreign Language: 6 credit hours minimum

2. Oral Communication and Literature: 6 credit hours minimum

a. Oral Communication: 3 credit hours minimum

b. Literature: 3 credit hours minimum

Note: No more than 6 hours may be taken in a given department.

III. PHYSICAL EDUCATION REQUIREMENTS:

Physical Education : 2 credit hours

Note: At least 1 credit hour must be a Health Concepts course.

Transfer Credit. Students wishing to take courses at another institution, following their admission to Texas Christian University, must secure approval through the Office of the Dean of the College of Fine Arts before enrolling in them.

Pass/No Credit Policy. Courses applied toward any major in the College of Fine Arts may not be taken on the P/NC basis.

Student Organizations

Fraternities and Sororities

Alpha Psi Omega (Drama)

Chi Tau Epsilon (Dance)

Mu Phi Epsilon (Music)

Phi Mu Alpha (Music)

Kappa Kappa Psi (Band)

Tau Beta Sigma (Band)

Pi Kappa Lambda (Music Honor Society)

Clubs

ASTA (American String Teachers Association)

IAJE (International Association of JazzEducators)

MEO (Music Education Organization)

Lending Our Voices and Ears

Musical Organizations

Horned Frog Band (Marching)

Symphonic Band

Wind Ensemble

Chamber Winds

Jazz Ensemble

University Orchestra

String and Wind Ensembles

Collegium Musicum

Choral Union

Concert Chorale

Chapel Choir

Professional Organizations

American Advertising Federation

Texas Art Education Association

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School of Music

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(MUSI)

Available on the Bachelor of Music degree, with majors in Performance, Piano Pedagogy, Theory/Composition, Music History or Church Music; on the Bachelor of Music Education degree with a concentration in Vocal or Instrumental Music in preparation for all-level certification, and as a major or minor on the Bachelor of Arts degree.

Admission. Prospective music majors are auditioned in their primary performance and scholarly area prior to admission to TCU. Applicants unable to visit the campus may submit a tape recording or copies of original scores and papers.

School Facilities. The School of Music is housed in TCU's Ed Landreth Hall and the new Mary D. and F. Howard Walsh Center for Performing Arts. The Ed Landreth building includes teaching, practice, and rehearsal facilities and a 1200-seat auditorium with superb acoustics known for its association with the Van Cliburn International Piano Competition. Numerous pianos, many of them grands; four pipe organs; three harpsichords; a clavichord; a collection of authentic Baroque instruments; the Upchurch Studio for Electro-Acoustic Music; and other instrumental collections serve the department.

The Mary D. and F. Howard Walsh Center for Performing Arts houses a 325-seat recital hall of unprecedented design for outstanding acoustics, an instrumental rehearsal hall, a choral rehearsal hall, and a piano wing furnished exclusively with Steinway pianos, including five teaching studios, eight practice rooms, and an electronic piano laboratory.

A large, comprehensive music library complete with recordings, reference books, texts, scores, and listening rooms is housed in the newly enlarged Mary Coats Burnett Library. Computer facilities with programs designed for computer-aided instruction in theory are also located in the music department.

School Requirements

Keyboard Skills. All music majors, unless exempted by testing, register for Music 10031, Class Piano, in the first semester, and must continue in classes until they pass the keyboard skills test. This requirement must be met by the end of the sophomore year. Students will not be allowed to register for courses in the junior year until this requirement is met. Piano and Organ majors will meet this requirement by taking Music 20071 and 20081, Functional Piano.

Recitals. All music majors appear in school and studio recitals. Students majoring in performance participate in a half recital during the junior year and present a full recital during the senior year.

Juries. A jury examination is held each semester for majors and minors in performance courses and annually for theory/composition majors beginning the sophomore year. At the end of the sophomore year this examination determines whether the student is permitted to enroll in upper division performance and composition lessons. The junior jury and/or recital determine admission to senior standing for performance majors.

Recital/Concert Attendance. Music majors are required to register in MUSI 11000. This is a pass/no credit course. Music majors are required to attend a minimum of 15 concerts each semester, with the exception of the student-teaching semester for BME students. Six (6) of these concerts must be from the weekly School of Music Recital Hour Series. The remaining nine (9) may be chosen from faculty and guest artist recitals, TCU and guest ensemble concerts, and student recitals. Students will submit to the School of Music Office original printed concert programs signed by a TCU School of Music faculty member in attendance. Deadline for submission of programs is 5:00 pm the last day of classes.

All music courses taken in the major or minor sequences must be passed with a grade of "C" or better to fulfill graduation requirements.

Degree Plans

B.M. Degree with a Major in Performance-Piano

University Curriculum Requirements	47
include II.A. (PHYS 20053)	
include II.C.4. (MUSI 30613, 30623)	
General elective	3

Music Requirements:

-- Ensemble (1/2 hours each semester)

-- Choral Ensemble 1 semester (MUSI 10030, 10040, or 10050)
 -- Piano Accompanying 4 semesters (MUSI 10170)
 -- Chamber Music 3 semesters (MUSI 10080) (In exceptional cases, a student may substitute MUSI 10080 for MUSI 10170, but not more than 2 semesters - only by petition of the piano faculty) 4

Studio Performance Lessons:

-- Lower Division	12
-- Upper Division	12
Music Theory (10201, 10203, 10211, 10213, 20201, 20203, 20211, 20213, 30202, 30222, 30232, 50203)	25
Music History (20613, 50433)	6
Performance Pedagogy (30052, 30062)	4
Functional Piano (20071, 20081)	2
Conducting (20512)	2
Junior Recital (30991)	1
Senior Recital (40991)	1
Music electives*	5
Total	124

*Must include 3 semester hours advanced theory or 3 semester hours advanced history.

B.M. Degree with a Major in Performance -Organ

University Curriculum Requirements	
include II.A. (PHYS 20053)	47
include II.C.4. (MUSI 30613, 30623)	
General elective	3
<i>Music Requirements:</i>	
Organ - 4 hours Choir	
-- 2 semesters any ensemble	4
<i>Studio Performance Lessons</i>	
-- Lower Division	12
-- Upper Division	12
Music Theory (10201, 10203, 10211, 10213, 20201, 20203, 20211, 20213, 30202, 30222, 30232, 50203)	25
Music History (20613, 50433)	6
Performance Pedagogy (30052, 30062)	4
Functional Piano (20071, 20081)	2
Conducting (20512)	2
Junior Recital (30991)	1
Total	124

*Must include 3 semester hours advanced theory or 3 semester hours advanced history.

B.M. Degree with a Major in Piano Pedagogy

University Curriculum Requirements	47
include II.A. (PSYC 10514, 10524, PHYS 20053)	
include II.C.4. (MUSI 30613, 30623)	
<i>Music Requirements:</i>	
Ensemble (1/2 hours each semester)**	4
<i>Studio Performance Lessons</i>	
-- Lower Division	8
-- Upper Division	10
Functional Piano (20071, 20081)	2
Music Theory (10201, 10203, 10211, 10213, 20201, 20203, 20211, 20213, 30202, 30222, 30232, 50203)	25
Conducting	2
Music History (20613, 5433)	6
Performance Pedagogy (30052, 30062, 40052, 40062)	8
Junior Recital (30991)	1
Senior Recital (40991)	1
Music Electives*	7
Education (30123, 30143)	6
Total	127

*Must include 3 hours advanced theory or 3 semester hours advanced history.

****Piano:** Choral Ensemble -- 1 semester (MUSI 10030, 10040, or 10050)

Piano Accompanying -- 4 semester (MUSI 10170)

Chamber Music- 3 semester (MUSI 10080) (In exceptional cases, a student may substitute MUSI 10080 for MUSI 10170, but not more than 2 semesters - only by petition of the piano faculty).

B.M. Degree with a Major in Performance Band Instruments

University Curriculum Requirements	47
include II.A. (PHYS 20053)	
include II.C.4 (MUSI 30613, 30623)	
General elective	3
<i>Music Requirements:</i>	

Ensemble (1/2 hours each semester)**	4
Studio Performance Lessons	
-- Lower Division	12
-- Upper Division	12
Music Theory (10201, 10203, 10211, 10213, 20201, 20203, 20211, 20213, 30202, 30222, 30232, 50203)	25
Music History (20613 plus 3 hours 50000 level 6 Conducting (20512, 30522)	4
Instrumental Performance Pedagogy (40033)	3
Junior Recital (30991)	1
Senior Recital (40991)	1
Music electives*	6
Total	124

*Must include 3 hours advanced theory or 3 hours advanced history.

**8 semesters of Wind Symphony (MUSI 10210), Symphonic Band (MUSI 10110), or Marching Band (MUSI 10010). Jazz ensemble (MUSI 10190 may count for a maximum of 2 semesters).

B.M. Degree with a Major in Performance String Instruments

University Curriculum Requirements	
include II.A. (PHYS 20053)	47
include II.C.4 (MUSI 30613, 30623)	
General electives	3
<i>Music Requirements:</i>	
Ensemble (1/2 hours each semester Symphony Orchestra)	4
Chamber Music	2
Studio Performance Lessons	
-- Lower Division	12
-- Upper Division	12
Music Theory (10201, 10203, 10211, 10213, 20201, 20203, 20211, 20213, 30202, 30222, 30232, 50203)	25
Music History (20613 plus 3 hours 50000 level)	6
Conducting (20512, 30522)	4
Instrumental Performance Pedagogy	3
Junior Recital (30991)	1
Senior Recital (40991)	1
Music electives*	6
Total	124

*Must include 3 hours advanced theory or 3 hours advanced history.

B.M. Degree with a Major in Performance Voice

University Curriculum Requirements	47
include II.A. (PHYS 20053)	
include II.C.4 (MUSI 30613, 30623)	
include II.D.1 (French, German, or Italian 20053, 20063)	
General elective	3
<i>Music Requirements:</i>	
Ensemble (1/2 hours each semester)**	4
Studio Performance Lessons	
-- Lower Division	8
-- Upper Division	12
Diction (10171, 10181)	2
Vocal Pedagogy (40063)	3
Music Theory (10201, 10203, 10211, 10213, 20201, 20203, 20211, 20213, 30202, 30222, 50203)	23
Music History (20613 plus 3 hours 50000 level)	6
Conducting (20512, 30512)	4
Junior Recital (30991)	1
Senior Recital (40991) 1 Music electives*	10
Total	124

*Must include 3 hours advanced theory or 3 hours advanced history.

**Must include 2 hours of Opera Workshop.

B.M. Degree with a Major in Music Theory/Composition

University Curriculum Requirements	47
include II.A. (PHYS 20053)	
include II.C.4 (MUSI 30613, 30623)	
include II.D.1 (German 20053, 20063)	
General elective	3
<i>Music Requirements:</i>	
Ensemble (1/2 hours each semester - any ensemble)	4
Studio Performance Lessons	
-- Lower Division	4
-- Upper Division	4
Music Theory (10201, 10203, 10211, 10213, 20201, 20203, 20211, 20213, 3202, 30222, 30232, 30312, 30322, 30343, 50203)	32
Music Composition (20412, 20422, 30420)*	12

Music History (20613 plus 3 hours 50000 level)	6
Instrumental Technique (10051, 10071, 30151, 30161)	4
MUS 40991 Senior Recital (Composers present a recital of their works. Theorists present a paper or a lecture-recital) 1 Conducting (20512 and 3012 or 30522)	4
Music electives**	3
Total	124

*Majors with a theory emphasis may fulfill 30420 requirement with theory electives or electives in combination with lessons.

**Composers must continue lessons for elective credit.

B.M. Degree with a Major in Church Music

University Curriculum Requirements	47
include II.A. (PHYS 20053)	
include II.C (MUSI 30613, 3623; RELI 10003)	
Religion Requirements: Church History (30323 or 30333) or Religion and Learning (20703 or 30653)	3
Religion in the Arts (30743)	3
General Electives	3
Music Requirements: Ensemble (1/2 hours each semester)*	4
Studio Performance Lessons (Organ or Voice)	
-- Lower Division	8
-- Upper Division	8
Studio Performance Lessons Secondary Instrument (Organ, Voice, or Piano)	4
Music Theory (10201, 10203, 10211, 10213, 20201, 20203, 20211, 20213, 30202, 30222, 30232)	22
Music History (20613)	3
Conducting (20512, 30512)	4
Service Playing and Repertory (30713)	3
Hymnology (30723)	3
Choral Literature (50423)	3
Junior Recital (30991)	1
Senior Recital (40991)	1
Music electives	4
Total	124

*6 semesters of Choir, 2 semesters of any ensemble

Bachelor of Music Education

University Curriculum Requirements	47
include II.A. (PHYS 20053)	
include II.B. (POSC 10133)	
include II.C.2 (HIST 10603 and 10613)	
include II.D.1 (SPCO 10123 or 20103)	
include II.D.2 (6 hours English)	

INSTRUMENTAL CONCENTRATION

Music Requirements:

Ensemble (1/2 hours each semester)**	4
Studio Performance Lessons	
-- Lower Division	8
-- Upper Division	8
Music Theory (10201, 10203, 10211, 10213, 20201, 20203, 20211, 20213, 30202, 30312)	9
20 Music History (20613, 30613, 30623)	
Instrumental Techniques (10051, 10061, 10071, 30151, 30161, 30171, 30181) *	6
Class Voice (20051)	1
Music Education (20311, 30313, 30812, 30822)	8
Conducting (20512, 30522)	4
Education Requirements: EDUC 30013, 30123, 30143 EDSP 30603 EDRE 40113 EDSE 50013	24
EDEL 40980 EDSE 40990	
Total	139

* Students not required to take technique course in primary instrument.

** **Band Concentration:** 8 semesters of Wind Symphony (MUSI 10210), Symphonic Band (MUSI 10110), or Marching Band (MUSI 10010). Jazz Ensemble may count for a maximum of 2 semesters. **Orchestra Concentration:** 8 semesters of Symphony Orchestra (MUSI 10120)

VOCAL CONCENTRATION

Music Requirements:

Ensemble (1/2 hours each semester)**	4
Studio Performance Lessons*	
-- Lower Division	8
-- Upper Division	6
Diction (10171, 10181)	2
Music Theory (10201, 10203, 10211, 10213, 20201, 20203, 20211, 20213, 30202, 30312)	20
Music History (20613, 30613, 30623)	9
Instrumental Technique (10021, 10081)	2
Music Education (20311, 20511, 30313, 30912, 30922)	9
Conducting (20512, 30512)	4

Education Requirements	21
Total	132

**Minimum of 4 hours of voice (class and/or studio) required if area of performance concentration is not voice.
 **8 semesters of Concert Chorale (MUSI 10040) or Chapel Choir (MUSI 10050). Opera Theatre (MUSI 10010) may count for a maximum of 2 of the 8 semesters.*

Bachelor of Arts

University Curriculum Requirements	47
include II.C.4 (MUSI 30613, 30623)	
include II.D.1 (6 hours sophomore language)	
Minor	18
General electives	15
Studio Performance Lessons - Lower Division	8
Studio Performance Lesson s- Upper Division	4
Music Theory (10201, 10203, 10211, 10213, 20201, 20203, 20211, 20213)	16
Music History 20613 plus 6 hours 50000-level music history	9
Conducting 20512	2
Music Elective (30000 level or above)	3
Ensembles (4 semesters - any ensemble)	2
Total	124

Suggested Courses for the Freshman Year: BM, BME, and BA

FALL

Music Theory 10201	1
Music Theory 10203	3
<i>Lower Division Studio Lessons:</i>	
Music History, Music Theory/Composition (1) or, Vocal Performance, Music Education (2) or, Keyboard and Instrumental Performance majors	3
Class Piano 10030	0
Writing Workshop (I.A.1)	3
Laboratory Science (II.A.1)	3
Physical Education (III.)	1
Ensemble	1/2
Total	13 1/2 or 14 1/2 or 15 1/2

SPRING

Music Theory 10211	1
Music Theory 10213	3
<i>Lower Division Studio Lessons</i>	
Music History, Music Theory/Composition (1) or, Vocal Performance, Music Education (2) or, Keyboard and Instrumental Performance majors	3
Class Piano 10040	0
Religion (II.C.1)	3
Laboratory Science (II.A.1)	3
Physical Education (III)	1
Ensemble	1/2
Total	13 1/2 or 14 1/2 or 15 1/2

Minor in Music

Music Requirements:

Studio Performance Lessons Lower Division	4
Music Theory (10201, 10203, 10211, 10213)	8
Music History (20613, 30613*, 30623*)	9
Total	21

**MUSI 30613 and 30623 may be taken as II.C.4 in the University Curriculum Requirements.*

Special Programs

The Performer's Certificate in Piano

The Performer's Certificate is a special course of study designed for those undergraduate students with outstanding musical and performance ability who show the promise of becoming concert artists and who do not choose to include the academic component of the Bachelor of Music curriculum. The program is designed to allow the student maximum time and flexibility to develop his/her performing ability while completing the essential studies for a solid musical background.

To be considered, candidates must have a high school diploma or equivalent and must demonstrate, through an audition for the piano faculty, the promise of becoming a concert performer. Admission to the program is allowed only upon the recommendation of the piano faculty and the approval of the Dean of Fine Arts.

International students must demonstrate proficiency in English by scoring at least 550 on the Test of English as a Foreign Language (TOEFL) or by otherwise meeting the TCU English requirement, with no section score less than 55.

The Performer's Certificate is a three-year program. No extensions will be granted.

The Artist Diploma in Piano

The Artist Diploma is a program for the most advanced and gifted young performers who, by their performance and credentials, demonstrate that they have serious potential to become concert artists. The program is designed to provide intensive study and performance opportunities under the guidance of master teachers in preparation for a concert career.

An audition for the piano faculty is required. Admission to the program is allowed only upon the recommendation of the piano faculty and the approval of the Dean of Fine Arts.

The Artist Diploma is a three-year program. No extensions will be granted. A minimum of 3.0 is required to maintain satisfactory academic progress in this program.

Performer's Certificate in Piano

Ensemble	2
Studio Performance Lessons (Piano) Upper Division	24
Music Theory (10201, 10203, 10211, 10213, 20201, 20203, 20211, 20213, 30202, 30222)	20
Music History (20613, 30613, 30623, 50433)	12
Accompanying (10271, 10281)	2
Piano Chamber Music (20082, 20182)	4
Conducting (30522)	2
Recitals (30991, 40991, 40991)	3
Total	79

Artist Diploma in Piano

Studio Performance Lessons (Piano) Upper Division	26
Recitals (30991, 40971, 40981, 40991)	4
Accompanying (10271, 10281)	2
Chamber Music Number	4
Total	36

Honors Program. Music majors who plan to pursue Departmental Honors must be members of the Honors Program and should enroll in the Honors sections of MUSI 30613 and 30623 prior to their senior year, and MUSI 40003 during the fall semester of their senior year.

The following is a complete list of courses offered by this department. Go to Class Search on Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

Music Theory

10003 MUSIC THEORY FOR NON-MAJORS. Rudiments of music including notation, intervals, scales, harmony, and form. Not available to music majors and minors for degree credit.

10201 ELEMENTARY EAR TRAINING. Melodic, harmonic, and rhythmic dictation; sight singing.

10211 ELEMENTARY EAR TRAINING. *Prerequisite:* 10201. Continuation of 10201.

10203 ELEMENTARY THEORY. Musical notation and definitions, intervals, scales and keys. Emphasis on writing four-voice exercises in major and minor keys using triads and dominant sevenths. Harmonic analysis. Keyboard harmony.

10213 ELEMENTARY THEORY. *Prerequisite:* 10203. Continuation of 10203, including study of suspensions and other non-chord tones, the remaining diatonic seventh chords and secondary functions. Harmonic analysis, as well as study of cadences, phrases and periods. Keyboard harmony.

20201 ADVANCED EAR TRAINING. *Prerequisite:* 10211. Increasingly difficult melodic and rhythmic dictation. Harmonic dictation including seventh chords and modulations. Sight singing of single line, two-voice, and four-voice music.

20211 ADVANCED EAR TRAINING. *Prerequisite:* 20201. Continuation of 20201.

20203 ADVANCED THEORY. *Prerequisite:* 10213. Modulatory techniques, simple binary and ternary forms, modal mixture, and chromatic chords. Harmonic analysis and compositional exercises. Keyboard harmony.

20213 ADVANCED THEORY. *Prerequisite:* 20203. Continuation of 20203, including tonal harmony in the late 19th century and an introduction to 20th century practice. Harmonic analysis and compositional exercises. Keyboard harmony.

20412 COMPOSITION I. *Prerequisite:* 10203, 10213 and declared major or minor in theory/composition. Beginning compositional exercises in tonal genres with emphasis on basic chromatic usage in short keyboard, vocal, and rondo forms.

20422 COMPOSITION II. *Prerequisite:* 20203 and declared major or minor in theory/composition. Continuation of MUSI 20412. Compositional exercises in tonal genres with emphasis on advanced chromatic usage in short keyboard and vocal forms as well as in small chamber ensembles.

30202 FORM AND ANALYSIS. *Prerequisites: 20211, 20213.* Structural analysis of simple and compound part forms, rondo, sonata and fugue. Emphasis on the standard designs found in instrumental music from Bach on.

30222 MODAL COUNTERPOINT. *Prerequisite: 20213.* Counterpoint in the style of the 16th century including ecclesiastical modes, melodic structure, two-part exercises, three-part textures, cadences, paraphrase technique and canon.

30232 TONAL COUNTERPOINT. *Prerequisite: 20213.* Counterpoint in the style of the 18th century including melodic structure, two-part texture, chromaticism, invertible counterpoint, two-part invention, three-part texture, imitation, three-part invention, the trio sonata, fugue, chorale and contrapuntal variation forms.

30312 ORCHESTRATION. *Prerequisites: 20211, 20213.* Practical consideration of techniques, capabilities and effective uses of orchestral and band instruments in various combinations. Arranging and scoring.

30322 ORCHESTRATION. *Prerequisite: 30312.* Continuation of 30312.

30332 MARCHING BAND ARRANGING. *Prerequisites: 20203/20213, 30312, or permission of instructor.* Study in technique of scoring for the contemporary marching band.

30342 JAZZ ARRANGING. *Prerequisites: 20203/ 20213, 30312, or permission of instructor.* Study in technique of scoring for the modern jazz orchestra.

30343 ELECTRO-ACOUSTIC MUSIC. *Prerequisite: 20211, 20213 and/or permission of instructor.* An investigation of basic acoustic and electronic principles, psycho-acoustics, function and operation of basic electronic music studio equipment (filters, microphones, tape recorders, synthesizers, mixers and MIDI devices) with an introduction to synthesis techniques utilizing synthesizers and computers.

30420 COMPOSITION. *Prerequisite: 30412 or permission of instructor.* Advanced private study in composition. Primarily intended for composition majors. (1-10 semester hours)

50203 MUSICAL STRUCTURE AND STYLE. *Prerequisite: 30202.* Study of musical style and structure through the analysis of music; organized chronologically from 1750 to the present.

50523 LINEAR ANALYSIS. *Prerequisite: Senior or graduate standing.* Development of structural learning through graphic analysis. Readings on Schenkerian concepts as applied to tonal music.

Music History

10033 SURVEY OF JAZZ AND POPULAR MUSIC. The study of the evolution of Jazz as an American art form, including the study of American popular music. Not available to music majors and minors for degree credit.

10053 SURVEY OF MUSIC. An introduction to musical ideas and compositions, intended to give an understanding of the major developments in the music of western civilization. Not available to music majors or minors for degree credit.

10063 WORLD MUSIC. The examination of a wide variety of music from diverse cultures and various theories concerning the cultural function of music. Not available to music majors or minors for degree credit.

20613 HISTORY OF MUSIC: ANCIENT, MEDIEVAL, RENAISSANCE. *Prerequisite: Sophomore standing in music or permission of instructor.* Development of significant styles to about 1600; contributions of outstanding composers, with emphasis on cultural and historical background.

30613 HISTORY OF MUSIC: BAROQUE AND CLASSIC. *Prerequisite: 20613 or permission of instructor.* Continuation of 20613, covering developments from G. Gabrieli through Beethoven. Satisfies UCR I.A.2. and II. C. 4.

30623 HISTORY OF MUSIC: ROMANTIC AND TWENTIETH CENTURY. *Prerequisite: 30613.* Continuation of 30613, covering developments from Schubert to the present time. Satisfies UCR I.A.2. and II C.4.

30723 HYMNOLOGY. (See Church Music).

50303 HISTORY OF SACRED MUSIC. A historical survey of sacred music from ancient times through the twentieth century. Emphasis on the role of music in worship, including the development of liturgy and hymnody.

50403 SYMPHONIC LITERATURE. *Prerequisite: Senior or graduate standing.* Selected works for orchestra and band, illustrating development of the symphony.

50413 OPERA LITERATURE. *Prerequisite: Senior or graduate standing.* Opera development from 1600 to the present with emphasis on selected works of Mozart, Verdi, Wagner, Puccini, and Britten.

50423 CHORAL LITERATURE. *Prerequisite: Senior or graduate standing.* Various forms in the field of choral literature with detailed examination of representative works.

50433 KEYBOARD LITERATURE. *Prerequisite: Senior or graduate standing.* History of development of organ from earliest evidence, harpsichord, clavichord, fortepiano, the piano as well as development of music for these instruments. Keyboard forms and styles with emphasis on earliest developments.

50443 ETHNOMUSICOLOGY. *Prerequisites: Senior or graduate standing.* The study of various theories concerning the cultural function of music, exposure to the analytical methods of ethnomusicologists, and the examination of examples from diverse musical cultures.

50453 MUSIC CRITICISM. *Prerequisites: Senior or graduate standing.* Study of selected writings on music criticism and aesthetics from antiquity to the present.

50463 MUSIC IN THE TWENTIETH CENTURY. *Prerequisite: Senior or graduate standing.* Study of the main trends from the time of Ravel to the present.

50473 SONG LITERATURE. *Prerequisite: Senior or graduate standing.* An examination of the repertoire for solo voice from 1750 to the present, with emphasis on the works of German, French, English, and American composers.

50483 CHAMBER MUSIC LITERATURE. *Prerequisite: Senior or graduate standing.* Selected ensemble works illustrating the development of chamber music.

50493 MUSIC IN THE UNITED STATES. Prerequisites: Senior or graduate standing. An examination of both cultivated and vernacular music in the United States from the Colonial Era to the present.

Church Music

30512 CHORAL CONDUCTING. (See course under Music Education.)

30522 INSTRUMENTAL CONDUCTING. (See course under Music Education.)

30713 SERVICE PLAYING AND REPERTORY. Organ and choral works in the church music program. Practical performance of anthems, motets, small cantatas. Modulation and transposition. Sacred wedding music. Accompanying and sight reading. Directing from the console.

30723 HYMNOLOGY. The history of the congregational song from the Old Testament to the present. Emphasis on understanding the historical development with practical application for worship in the decade of the 1990s. No musical training is necessary for non-music majors.

30922 CHORAL ORGANIZATION AND ADMINISTRATION. (See course under Music Education.)

50423 CHORAL LITERATURE. (See course under Music History.)

Music Education

10223 BASIC MUSIC. Fundamentals of music performance, composition and listening. Appropriate for elementary education majors. Not open to music majors and minors.

20311 FIELD EXPERIENCE IN MUSIC. Observation of and interaction with music students of elementary and middle school age and study of the characteristics of successful teachers.

20511 ANALYTICAL LISTENING FOR VOCAL CONDUCTORS. Auditory skills course for choral music education majors. Skills: analysis of vocal tone quality, detection of discrepancies in pitch and rhythm, analysis and solutions of problems in intonation, blend, and balance. Lab required.

20512 INTRODUCTION TO CONDUCTING. *Prerequisite: Sophomore standing, music major or permission of instructor.* Conducting patterns, preparation, cues, release, and technical and expressive movements applicable to vocal and instrumental conductors.

30313 ELEMENTARY MUSIC. Vocal and instrumental expression, rhythmic activities, critical listening, creative experience, and music reading. Course appropriate for pedagogy students.

30512 CHORAL CONDUCTING. *Prerequisite: 20512.* Technique of the baton, score reading, tone production, rehearsal routines, vocal materials, organization problems, supervised practice in conducting chorus. Meets choral conducting requirements for secondary school teachers.

30522 INSTRUMENTAL CONDUCTING. *Prerequisite: 20512.* Instrumental conducting technique, score reading and analysis, supervised practice conducting ensembles. Meets instrumental conducting requirements for secondary school teachers. Lab required.

30812 INSTRUMENTAL ORGANIZATION AND ADMINISTRATION. *Prerequisite: Junior standing.* Development and administration of instrumental music organizations in the secondary school with emphasis on musical aptitudes, teaching comprehensive musicianship, rehearsal techniques and administration of the beginning middle school band and marching band. Lab required.

30822 INSTRUMENTAL ORGANIZATION AND ADMINISTRATION. *Prerequisite: 30812.* Development and administration of instrumental music organizations in the secondary school with emphasis on administration, advanced band, orchestra and jazz band. Lab required.

30912 CHORAL ORGANIZATION AND ADMINISTRATION. *Prerequisite: Junior standing.* Study of secondary choral curriculum. Includes vocal and choral techniques, audiation, music reading, choral literature, style and history related to choral music, planning and appraisal and information about UIL and other realities of secondary teaching. Lab required.

30922 CHORAL ORGANIZATION AND ADMINISTRATION. *Prerequisite: 30912.* Continuation of 30912. Lab required.

50212 CHORAL CONDUCTING. *Prerequisites: Senior or graduate standing, 30512 or 30522, keyboard facility or permission of instructor.* Materials and techniques for the experienced choral director.

50222 INSTRUMENTAL CONDUCTING. *Prerequisite: Senior or graduate standing, 30522, keyboard facility or permission of instructor.* Advanced conducting techniques and score analysis, supervised practice conducting ensembles.

Honors Courses

30613 HISTORY OF MUSIC: BAROQUE AND CLASSIC.**30623 HISTORY OF MUSIC: ROMANTIC AND TWENTIETH CENTURY.**

40003 SENIOR HONORS RESEARCH PROJECT. *Prerequisites: Senior standing and 30613, 30623 (Honors).* Under the guidance of a faculty committee, the student will present an Honors Project, e.g., Lecture/Recital, Composition, Research Paper.

Special Topics

30970 SPECIAL TOPICS IN MUSIC. Specialized work in student's area of concentration. (1-6 Hours)

50970 SPECIAL TOPICS IN MUSIC. Specialized work in student's area of concentration. (1-6 hours)

Performance Studies**Class Instruction**

10021 CLASS GUITAR. Elementary techniques of playing and teaching guitar for music education majors.

10030 CLASS PIANO. Beginning piano for non-keyboard music majors who are preparing to pass the basic piano requirement.

10040 CLASS PIANO. *Prerequisite: 10031.* Continuation of 10031.

10051 STRINGS TECHNIQUE I. Elementary techniques of playing and teaching violin, viola, cello, and bass for music education majors.

10061 STRING TECHNIQUE II. *Prerequisite: 10051 or demonstrated proficiency on a string instrument as approved by the instructor.* Continuation of elementary techniques of playing and teaching violin, viola, cello, and bass for music education majors.

10071 PERCUSSION TECHNIQUE. Elementary techniques of playing and teaching percussion instruments for music education majors.

10081 FUNCTIONAL INSTRUMENTAL TECHNIQUE. Introduction to string, brass, woodwind and percussion instructional techniques for vocal concentration music education majors.

10171 DICTION FOR SINGERS. Introduction to the International Phonetic Alphabet and its application to the study of Liturgical Latin, Italian, and English lyric diction.

10181 DICTION FOR SINGERS. *Prerequisite: 10171 or permission of instructor.* Application of International Phonetic Alphabet to the study of German and French lyric diction.

10191 JAZZ IMPROVISATION. A study of the techniques of jazz improvisation through performance. May be repeated for maximum of 4 hours credit.

10271 INTRODUCTION TO PIANO ACCOMPANYING I. Practical, comprehensive introduction to all aspects of accompanying a wide variety of vocal and instrumental music. Main topics include development of sight reading and ensemble skills, techniques for rehearsing and working with others in performance, and general concepts of the philosophy of performance.

10281 INTRODUCTION TO PIANO ACCOMPANYING II. *Prerequisite: 10271.* Continuation of 10271.

20030 CLASS PIANO. *Prerequisite: 10041.* Continuation of 10041. 20040 CLASS PIANO. *Prerequisite: 20031.* Continuation of 20031.

20051 CLASS VOICE. Class instruction designed to train students in vocal technique and literature.

20071 FUNCTIONAL PIANO. *Prerequisite: Keyboard, Piano Pedagogy and MUED piano concentration majors only; 10201, 10203, 10211, 10213 and two semesters 20210/20220.* Functional keyboard skills for keyboard majors, including transposition, harmonization, score-reduction, improvisation.

20081 FUNCTIONAL PIANO. *Prerequisite: 20071.* Continuation of 20071.

20082 PIANO CHAMBER MUSIC PERFORMANCE I. *Prerequisite: Sophomore standing in music or permission of instructor.* Intensive study of selected works of chamber music with piano. Emphasis on developing the musical and interactive skills needed for chamber music through rehearsal and performance. Weekly coaching with faculty.

20182 PIANO CHAMBER MUSIC PERFORMANCE II. *Prerequisite: 20082 or permission of instructor.* Continuation of 10082.

20212 PIANO REPERTOIRE AND PERFORMANCE I. *Prerequisite: Sophomore standing in music or permission of instructor.* A workshop class for pianists in which selected works of the piano literature are performed, analyzed and discussed. Special focus is on the etude and its development. Class members perform assigned works and present individual reports on topics relating to the music.

30151 WOODWIND TECHNIQUE I. Elementary techniques of playing and teaching clarinet for music education majors.

30161 BRASS TECHNIQUE I. Elementary techniques of playing and teaching trumpet for music education majors.

30171 WOODWIND TECHNIQUE II. *Prerequisite: 30151 or clarinet proficiency.* Elementary techniques of

playing and teaching woodwind instruments for music education majors.

30181 BRASS TECHNIQUE II. *Prerequisite: 30161 or trumpet proficiency.* Elementary techniques of playing and teaching brass instruments for music education majors.

40212 PIANO REPERTOIRE AND PERFORMANCE II. *Prerequisite: Senior standing in music or permission of instructor.* A workshop class for pianists in which the piano works of a major composer are performed, analyzed and discussed. Class members perform assigned works and present individual reports on topics relating to the music.

Studio Instruction

Keyboard Performance majors register for 3 credit hours each semester of Lower and Upper Division study.

Piano Pedagogy majors register for 2 credit hours each semester of Lower and Upper Division study until the senior year, when they register for 3 credit hours each semester.

Band and Orchestral Instrument majors register for 3 credit hours each semester of Lower and Upper Division study.

Voice Performance majors register for 2 credit hours each semester of Lower Division study and 3 credit hours each semester of Upper Division study.

Secondary Voice for the non-major or for the music major whose principal instrument is other than voice. Requirements in repertoire differ from Principal Voice in difficulty rather than kind. The standard of achievement in vocal technique will be appropriate for the secondary student. Repertoire assignments will be made from the standard art song and operatic aria literature. Non-majors register for 1 or 2 credit hours.

Music Education majors register for 2 credit hours each semester of Lower and Upper Division study.

Music History and Music Theory/Composition majors register for 1 credit hour each semester of Lower and Upper Division study.

Music Performance Elective Credit. To register for private lessons, students must audition and obtain permission of the instructor.

Private Studio Lesson Fees. An additional fee will be charged for private studio lessons with the following exceptions: Music Majors and Minors, and students concurrently enrolled in an ensemble and private studio lessons.

Lower Division Studio Lessons Variable credit. 1-4 semester hours.

Vocal Studies

20110 Voice

21100, Secondary Voice

Keyboard Studies

20210 Piano

20220 Organ

20230 Jazz Piano

20240 Harpsichord

Band/Orchestral Instrument Studies

20310 Violin

20320 Viola

20330 Violoncello

20340 Double Bass

20360 Jazz Bass

20410 Flute

20420 Oboe

20430 Clarinet

20440 Saxophone

20450 Bassoon

20510 French Horn

20520 Trumpet (Cornet)

20530 Trombone

20550 Tuba

20560 Euphonium

20610 Percussion

20620 Jazz Drumset

20710 Harp

20810 Guitar

20910 Jazz Guitar

Upper Division Studio Lessons

Variable credit. 1-6 semester hours.

Vocal Studies

40110 Voice

41100 Secondary Voice Keyboard Studies

40210 Piano

40220 Organ

40230 Jazz Piano

40240 Harpsichord Band/Orchestral Instrument Studies

40310 Violin

40320 Viola

40330 Violoncello

40340 Double Bass

40360 Jazz Bass

40410 Flute

40420 Oboe

40430 Clarinet

40440 Saxophone

40450 Bassoon
 40510 French Horn
 40520 Trumpet (Cornet)
 40530 Trombone
 40550 Tuba
 40560 Euphonium
 40610 Percussion
 40620 Jazz Drumset
 40710 Harp
 40810 Guitar
 40910 Jazz Guitar

Recital Courses

30991 JUNIOR RECITAL. Prerequisite: Junior standing and permission of instructor.
 40971 PIANO RECITAL. Prerequisite: 30991.
 40981 PIANO RECITAL. Prerequisite: 40971.
 40991 SENIOR RECITAL. Prerequisite: Senior standing and permission of instructor. Students giving a recital must have successfully completed a junior recital.

Pedagogy

30052 BEGINNING PIANO PEDAGOGY. *Prerequisite: Junior standing in music and in piano.* Introduction to methods, materials and techniques employed in the teaching of beginning piano students. Establishing and managing a piano studio<public relations, equipment and layout, professional memberships, budget and tax information, studio policy and teacher-student-parent roles. Lecture and observation.
30062 INTERMEDIATE PIANO PEDAGOGY. *Prerequisite: 30052.* Examines materials for the intermediate piano student<method books, standard piano repertoire, theory and technique, jazz and ensemble works. Also focuses on practice motivation, recital preparation, and auditions, festivals and contests. Also deals with teaching preschool and adult beginners. Lecture and observation.
40033 INSTRUMENTAL PERFORMANCE PEDAGOGY. *Prerequisite: Junior or senior standing as an instrumental performance major.* The study and analysis of teaching music literature; teaching concepts and the practical application of these concepts; the comparisons of the schools of performance/teaching methods.
40052 GROUP PIANO PEDAGOGY. *Prerequisites: Senior standing in music and piano; 30052, 30062.* Explores group piano instruction at all levels<pre-K through gr. 12, adult non-credit, college non-music majors and music majors. Texts, supplementary materials, electronic instruments; teaching techniques and group dynamics. Lecture, observation and supervised teaching.
40062 PIANO TEACHING INTERNSHIP. *Prerequisite: 40052.* Each student will teach two piano pupils for the semester, culminating in an evaluation and recital. Weekly classes serve as a forum for discussion of problems and exchange of ideas, as well as the examination of current trends and research in piano pedagogy. Lecture, observation and supervised teaching.
40063 VOICE PEDAGOGY. *Prerequisite: Upper division standing in vocal performance or vocal concentration.* Methods and materials for teaching voice. Lecture, demonstration and observation.
50053 INTRODUCTION TO VOICE PEDAGOGY. *Prerequisite: Appropriate undergraduate degree in Music or Music Education or permission of instructor.* Introduction to science, methods, and materials of voice pedagogy. Acoustics, breathing, attack, registration, resonance, vowels, articulation, and coordination of singing.
50063 COMPARATIVE VOICE PEDAGOGY. *Prerequisite: 50053 or equivalent and permission of instructor.* Comparisons of research results and concepts of voice pedagogy across national styles, bel canto treatises, 19th century sources, contemporary methods, and artist statements. Students are encouraged to develop their own practical studio procedures in harmony with the common ideals of Western artistic voice culture.

Music Ensembles

All majors and minors in Performance will participate in at least one ensemble organization each semester. Usually this will be directly allied to the subject of Performance study. There may be exceptions where a student is qualified to participate in more than one type of organization.

Each of the following courses earn 1/2 semester hour.

10010 MARCHING BAND 1
 0020 PERCUSSION ENSEMBLE
 10030 CHORAL UNION
 10040 CONCERT CHORALE
 10050 CHAPEL CHOIR
 10060 CHAMBER SINGERS
 10070 VOCAL JAZZ ENSEMBLE
 10080 CHAMBER MUSIC
 10090 WOODWIND ENSEMBLE
 10100 OPERA THEATRE
 10110 SYMPHONIC BAND
 10120 SYMPHONY ORCHESTRA
 10150 NEW MUSIC ENSEMBLE
 10160 BRASS ENSEMBLE
 10170 PIANO ACCOMPANYING
 10180 COLLEGIUM MUSICUM
 10190 JAZZ ENSEMBLE
 10210 WIND SYMPHONY

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Art and Art History

[B.F.A. Degree with a Major in Studio Art](#)
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(ART), (ARHI)

Available on the Bachelor of Fine Arts degree with a major in Studio Art, Art Education and Graphic Design.

Available on the Bachelor of Arts degree with a major in Art History.

All art courses taken in the major or minor sequences must be passed with a grade of "C" or better to fulfill graduation requirements.

Bachelor of Fine Arts. The B.F.A. degree is available in Studio Art with concentration in Painting, Photography, Printmaking, or Sculpture; Graphic Design; and Art Education. The degree requires a minimum of 124 hours inclusive of the 47 semester hours of general University requirements. A minimum of 60 semester hours in Art is required except for Art Education majors who must complete a minimum of 54 semester hours of Art. The various degree plans are outlined below.

B.F.A. Degree with a Major in Studio Art (Painting, Photography, Printmaking, or Sculpture)

University Curriculum Requirements (Includes ARHI 10053, 10063) 47

Art Requirements:

Drawing (10103, 10113)	9
Design (10123, 10133)	6
Painting (20143)	3
Printmaking (20163/20173/20183)	3
Sculpture (20243)	3
Photography (20743)	3
Art History	6
Major Studio Area	17
Senior Exhibition (40991)	1
Art Professions (30903)	3
Art Elective	3
Electives	23
Total	124

B.F.A. Degree with a Major in Graphic Design

University Curriculum Requirements 47
(includes ARHI 10053 or 10063 and one approved 20000-level art history course)

Art Requirements:

Drawing (10103, 10113)	6
Design (10123, 10133)	6
Approved Studio Art Elective	3
Photography (20743, 30753)	6
Art History (30833)	3
Graphic Design (20323, 20333, 20453, 30323, 30400, 30423, 30433, 30443, 30453, 30473, 30523, 40410, 40412, 40991)	39
Electives	14
Total	124

B.F.A. Degree with a Major in Art (Art Education emphasis)

University Curriculum Requirements 47
I.B. Mathematics
II.B. Political Science 10133

II.C.2 History 10603, 10613 or 10903, 10913
 II.C.4 Survey of Art History 10053/10063
 II.D.1 Speech 10123, 20103 or 20133
 II.D.2 Six hours of English

Art Requirements:

Drawing (10103, 10113)	6
Design (10123, 10133)	6
Painting (20143)	3
Printmaking (20163/20173/20183)	3
Ceramics (20213)	3
Photography (20743)	3
Approaches to Studio Art (30013)	3
Art History (Upper Division)	3
Sculpture/Printmaking (Upper Level)	3
Elementary Art Ed (10803, 30803)	6
Secondary Art Ed (40803)	3
Art electives (Upper Level)	9
Education	24
Electives	2
Total	124

Departmental Requirements. A minimum 2.5 cumulative GPA in art is a required prerequisite to junior and senior level studio art, graphic design and art education courses. After entrance into upper division courses, a minimum 2.5 GPA must be maintained as a prerequisite to further advanced enrollment. An annual qualifying portfolio review is required for all students wishing to continue in the Graphic Design program, whether they are Graphic Design majors or not; the student may be required to repeat courses or be removed from the Graphic Design program.

Transfer Students. Transfer students must have a 2.5 minimum GPA in art and must present a portfolio or photographs or slides of their work for evaluation by the Art Department at least one week prior to registration or at time of advisement in order to determine level of competency.

Declaration of a Major. The department requires students to declare a major during or before the second semester of their sophomore year. Students majoring in Studio Art must also declare a concentration in Painting, Photography, Printmaking, or Sculpture. Students planning to major in Studio Art or Art Education must submit a portfolio of work to department faculty. A portfolio that meets with faculty approval is required before permission will be given to register in upper division classes. Students who do not meet departmental standards may enroll for Art 20970, Intermediate Studio, for up to 6 semester hours of credit to improve both grade point average and portfolio before making another submission to the faculty. Once an area of specialization is declared, a faculty adviser from that area will be assigned, and a sequence of courses to be taken will be formulated.

Student Exhibitions. Both graduate and undergraduate student exhibitions take place at various times during the year in the J.M. Moudy Building Exhibition Hall. No work may be removed from exhibitions without departmental approval. Students must claim their work at the end of each exhibition. The Department cannot accept responsibility for the care, storage, or distribution of student work.

Suggested Courses for the Freshman Year

Art Education Emphasis

FALL

Drawing 10103	3
Design 10123 or 10133	3
Writing Workshop	3
Historical Studies	3
Laboratory Science	3
P.E.	1
Total	16

SPRING

Drawing 10113	3
Three Dimensional Design 10133	3
Religion	3
Historical Studies	3
Laboratory Science	3
P.E.	1
Total	16

Studio Art Majors

FALL

Drawing 10103	3
Design 10123 or 10133	3
Art History 10053	3

Writing Workshop	3
Laboratory Science	3
P.E.	1
Total	16

SPRING

Drawing 10113	3
Design 10123 or 10133	3
Religion	3
Art History 10063	3
Laboratory Science	3
P.E.	1
Total	16

Graphic Design Majors

semester hours

FALL

Art 10053	3
Drawing 10103	3
Design 10123 or 10133	3
Writing Workshop	3
Laboratory Science	3
P.E.	1
Total	16

SPRING

Art 10063	3
Drawing 10113	3
Design 10123 or 10133	3
Religion	3
Laboratory Science	3
P.E.	1
Total	16

Bachelor of Arts. A major or a minor in Art History may be taken on the B.A. degree. The Art History program provides a broad undergraduate foundation in the humanities and the preparation necessary for professional careers in art. Potential careers open to Art History majors include teaching, research, art administration, art writing/criticism and museum and gallery professions.

The requirements for the major are Art 10053 and 10063, one 20000 level Art History course, plus 21 semester hours of additional Art History courses, including a minimum of 12 advanced hours. Additionally, 6 hours are required in studio courses (10103, 10113, 10123, 10133 or other courses approved by the department.) Majors are expected to enroll in a broad range of courses, including both pre-modern (pre-1800) and modern (post-1800).

Art History majors should pay particular attention to the language requirement - 6 semester hours at the 20000 level, or demonstrated proficiency. Those students intending to continue work at the graduate level should develop a proficiency in a second language-German, French, Italian or Spanish are recommended.

Suggested Courses for the Freshman Year**Art History Major***FALL*

Art 10053	3
Modern Language	3 or 4
Writing Workshop	3
UCR course	3
Laboratory Science	3
P.E.	1
Total	16 or 17

SPRING

Art 10063	3
Modern Language	3 or 4
UCR course	3
UCR course	3
Laboratory Science	3
P.E.	1
Total	16 or 17

Requirements for a Minor in Art History. Art 10053, one 20000 level Art History course, plus 15 semester hours of Art History courses (10063 is strongly recommended) to be determined by the student and approved by

an Art History adviser.

Requirements for a Minor in Art. Three hours Art History (10000 or 20000 level) plus 15 semester hours of approved Art electives including a minimum of 6 advanced hours. Art minors seeking teacher certification must complete 24 hours (12 advanced) and include in their program 3 semester hours of Painting, 3 of Life Studies, 3 of Approaches to Studio Art, 3 of Secondary Art Curriculum, 6 of Art History and 6 of Ceramics and/or Printmaking and/or Sculpture and/or Photography.

Field Trips. Field trips may be required by instructors as a part of the content of any course. Every effort will be made to ensure that these trips do not conflict with other portions of the student's schedule.

Honors Program. Art and Art History majors who plan to pursue Departmental Honors must be members of the Honors Program and should enroll in ART 30003 during their junior year and ART 40003 during the fall semester of their senior year.

The following is a complete list of courses offered by this department. Go to Class Search on Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

Studio Art

10103 DRAWING I. Drawing as a primary art form offers a thorough exploration of the art elements: shape, value, line and texture and the spatial relationship of these art elements. Analytic drawing, perspective drawing as well as expressive approaches are employed. The keeping of a sketchbook is required.

10113 DRAWING II. *Prerequisite: 10103.* Creative drawing based on visual experience and imagination. Assigned problems and experiments with a wide range of drawing materials, the use of mark-making tools and inventive exploration of media.

10123 DESIGN AND COLOR. Study and application of basic principles of creative design.

10133 THREE DIMENSIONAL DESIGN. Emphasis on use of three dimensional media, exploration of materials and introduction to some of the most widely used technical processes relative to contemporary 3-D artists.

20100 LIFE STUDIES. *Prerequisites: 10103, 10113, or permission of instructor.* Drawing, painting, figure or portrait modeling from the life model. (1-6 hours)

20143 PAINTING. *Prerequisites: 10103, 10113.* Basic painting procedures in oil and/or acrylic mediums. Introduction to techniques and material use.

20163 PRINTMAKING (Etching). Introduction to traditional and contemporary intaglio and relief materials as applied to metal plate etching, single and multi-plate color, collograph and photomechanical processes.

20173 PRINTMAKING (Lithography). Traditional and contemporary drawing materials used as an introduction to black and white lithographic printing from stones to plates. Emphasis on conceptual and expressionistic aspects of work.

20183 PRINTMAKING (Screenprinting). Introduction to basic applied and photomechanical stencil techniques. Emphasis on conceptual and expressionistic aspects of work.

20213 CERAMICS. Introduction to materials, methods and firing techniques. Wheel thrown and hand-built ceramics.

20243 SCULPTURE. *Prerequisite: 10133* Basic introduction to concept and creation of sculpture with emphasis on bronze casting, welded steel, ceramics and wood.

20743 PHOTOGRAPHY. Basic introduction to equipment, materials and processes of photography. Emphasis on creative use of materials and visual imagination.

20970 INTERMEDIATE STUDIO. (Maximum 3 hours per semester). Directed individual problems to strengthen fundamental knowledge and skills required for advanced studio courses. (1-6 hours)

30003 JUNIOR HONORS SEMINAR Directed readings in art and art history.

30100 LIFE STUDIES. *Prerequisite: 20100 or permission of instructor.* Continuation of 20100. (1-6 hours)

30140 PAINTING. *Prerequisite: 20143.* Advanced problems in painting with emphasis on individual direction. (1-15 hours)

30150 ARTISTS' BOOKS. *Prerequisites: Any 20000 level Art or Art History course or permission of instructor.* Examination of the historical development of Artists' Books. It will include hands-on application of visual/verbal statements and present a mixed media alternative for artist from concept through execution. (3-6 hours, 3 hours maximum per semester.)

30160 ADVANCED PRINTMAKING. (Etching). *Prerequisites: 20163/20173/20183, or permission of instructor.* Intaglio and relief techniques used with emphasis on individual development of conceptual and experimental concerns through printmaking as a medium. (1-6 hours)

30170 ADVANCED PRINTMAKING. (Lithography). *Prerequisites: 20163/20173/20183, or permission of instructor.* Stone and plate lithographic technique employed with emphasis on individual development of expression. (1-6 hours)

30180 ADVANCED PRINTMAKING. (Screenprinting). *Prerequisites: 20163/20173/20183, or permission of instructor.* Applied and photomechanical stencil techniques used with emphasis on individual development of expression. (1-6 hours)

30210 CERAMICS. *Prerequisite: 20213 or permission of instructor.* Advanced ceramic technique; clay bodies, glazes, kiln operation, raku. (3 hours or less credit per class. May be repeated to accumulate 12 hours)

30220 CERAMIC SCULPTURE. *Prerequisite: 20213 and/or permission of instructor.* Use of ceramic materials on a greater scale as sculptural media. Problems of handling, glazing, firing; scale as sculptural media. (3 hours or less credit per class. May be repeated to accumulate 12 hours)

30240 ADVANCED SCULPTURE. *Prerequisites: 10133 and 20243.* Sculptural concepts, technical processes and translation of ideas into three dimensional situations. (Three hours or less credit per class. May be repeated to accumulate 12 hours).

30710 COLOR PHOTOGRAPHY. *Prerequisite: 20743, JOUR 30233, or permission of instructor.* Color photographic principles, theory, processes and practice. (1-6 hours)

30720 LANDSCAPE PHOTOGRAPHY. *Prerequisite: 20743 or permission of instructor.* Techniques, methods for producing photographs under outdoor and "field" conditions. Emphasis on history and practice of landscape photography, its role in the history of the American West and its position in contemporary American Art Photography. (1-6 hours)

30730 ZONE SYSTEM PHOTOGRAPHY. *Prerequisite: 20743 or permission of instructor.* Use of sensitometry to produce negatives using the zone system. Production of materials using non-silver as well as photo silver processes. (1-6 hours)

30743 THE PHOTOGRAPHIC PORTRAIT. *Prerequisite: 20743 or permission of instructor.* Portrait photography fundamentals including lighting, equipment, social and psychological aspects of human representation, and business aspects of professional photography.

30753 PHOTOGRAPHIC ILLUSTRATION. *Prerequisite: 20743 or permission of instructor.* Taking, printing, layout and presentation of photographic materials related to projects in commercial art.

40003 SENIOR HONORS PROJECT. Directed research projects in art and art history.

40970 SPECIAL PROBLEMS. Directed individual problems beyond the scope of regular courses in each of the art specialties. Note: No student may enroll for a Special Problems course without first discussing the nature of the intended studies and obtaining written permission of the instructor. (1-18 hours)

40991 SENIOR EXHIBITION. All majors are required to exhibit selected work from their specialty area. The successful completion of this requirement is a prerequisite for graduation.

Critical Studies

30903 SEMINAR IN ART PROFESSIONS. *Prerequisite: Junior standing in Art.* The seminar will address specific professional issues such as photography of fine art, compiling slide portfolios, resume formats, exhibition preparation, exhibition venues, the role of museums and galleries, financial concerns and graduate school.

Graphic Design

20323 TYPOGRAPHY I. *Prerequisites: 10103, 10123.* Basic techniques and applications of standard graphic design methods.

20333 TYPOGRAPHY II. *Prerequisite: 20323.* Advanced processes and design problems in graphic design.

20970 INTERMEDIATE STUDIO. (Maximum 3 hours per semester). Directed individual problems to strengthen fundamental know-edge and skills required for advanced graphic design courses. (1-6 hours)

30323 TYPOGRAPHY III. *Prerequisites: 20323, 20333 or permission of instructor.* Continued exploration of design process with emphasis on visual perception and communication of information.

30400 ILLUSTRATION. *Prerequisites: 10103 and 10113 or permission of instructor.* Introduction to and exploration of current, creative illustration techniques and media. (3-15 hours, 3 hours maximum per semester.)

30423 PUBLICATION DESIGN. *Prerequisites: 20323/20333 or permission of instructor.* Complete range of design, layout, illustration, art preparation for book, magazine, news media publication.

30433 PACKAGE DESIGN. *Prerequisite: 30323.* Exploration of package design, packaging graphics and on-site promotion.

30453 COMPUTER APPLICATIONS TO GRAPHIC DESIGN. *Prerequisite: 20323, 20333.* A practical study of the most current applications of electronic technology in the field of graphic design that will provide the technical

skills necessary to master the computer as an art and communication medium.

30473 ADVANCED COMPUTER APPLICATIONS TO GRAPHIC DESIGN. *Prerequisite: 30453 or permission of instructor.* Aesthetic exploration of advanced design and rendering software.

30523 ADVERTISING DESIGN. *Prerequisite: 20333 or permission of instructor.* Creative communication within the limitations of specific media.

30533 ADVANCED ADVERTISING DESIGN. *Prerequisite: 30523.* Exploration of agency procedures with emphasis on problems involving design of print ads and campaigns.

40300 PROBLEMS IN GRAPHIC DESIGN. *Prerequisites: Advanced standing in the major and permission of instructor.* Special problems in communication graphics. (1-6 hours)

40410 GRAPHIC DESIGN INTERNSHIP. *Prerequisite: Senior standing and 3.0 GPA in major.* On-the-job training in agencies, design studios, in-house departments, etc., which can provide students with valid educational opportunity to extend classroom experience. (3-6 hours)

40412 PORTFOLIO AND MARKET. *Prerequisite: Senior standing in graphic design.* Assembly of portfolio; presentation techniques; competencies; the state of the market and preparation for employment opportunities.

40970 SPECIAL PROBLEMS. Directed individual problems beyond the scope of regular courses in graphic design. *Note: No student may enroll for a Special Problems course without first discussing the nature of the intended studies and obtaining written permission of the instructor.* (1-18 hours)

40991 SENIOR EXHIBITION. All majors are required to exhibit selected work from their specialty area. The successful completion of this requirement is a prerequisite for graduation.

History of Art

10053 SURVEY OF ART HISTORY: PREHISTORY - LATE MEDIEVAL. A survey of the visual arts created in western Europe and the Near East from prehistoric times through the 14th century.

10063 SURVEY OF ART HISTORY: RENAISSANCE - CONTEMPORARY. A survey of the visual arts created in western Europe from the Renaissance to the present day.

20003 THE CLASSICAL TRADITION IN ART. Focusing on the visual arts of ancient Greece and Rome, this course surveys the impact, importance and influence of classicism on art from Antiquity to Postmodernism.

20013 EGYPTIAN ART. A survey of Egyptian art and architecture from the Pre-Dynastic period through the Roman Domination.

20063 MEDIEVAL ART. A survey of major Medieval works-architecture, painting, sculpture, religious objects, and illuminated manuscripts-dating from the 3rd century through the 14th century.

20073 BRITISH ART: MEDIEVAL TO MODERN. A survey of British Art from the Middle Ages through the Modern era.

20103 17th AND 18th CENTURY EUROPEAN ART. Survey of European art during the 17th and 18th centuries with emphasis on major stylistic and thematic developments in painting, sculpture and architecture. Artists studied include Caravaggio, Poussin, Bernini, Rubens, Rembrandt, Velasquez, Vermeer and Watteau.

20113 A NEW WORLD: SURVEY OF AMERICAN ART. Survey of American art from its colonial beginnings to the present day. Emphasis is placed on analyzing works of art critically and examining them in light of their historical and social contexts.

20303 19TH AND 20TH CENTURY ART. A survey of the traditions and significant changes that characterized the visual arts during this fertile period in the history of art.

20503 SURVEY TOPICS IN ART HISTORY. Occasional courses offering broad surveys of topics, such as the history of landscape painting, portraiture, and public sculpture. Courses may relate to and take advantage of special museum exhibitions.

20603 ART HISTORY ON SITE. This travel course surveys the visual arts from ancient times to the present by examining actual works of art and architecture on site.

30003 JUNIOR HONORS SEMINAR. Directed readings in art and art history.

30113 AMERICAN ART TO 1913. *Prerequisite: 10063 and one 20000 level course, or permission of instructor.* A study of the visual arts from the colonial period to the advent of modernism with the Armory Show.

30123 AMERICAN ART 1913 TO PRESENT. *Prerequisite: 30113 and one 20000 level course, or permission of instructor.* A study of 20th-century visual arts in the United States.

30173 EARLY ITALIAN RENAISSANCE ART. *Prerequisites: 10053 or 10063 and one 20000 level course, or permission of instructor.* Painting, sculpture, and architecture in 14th and 15th century Italy. Emphasis on Giotto, Masaccio, Donatello, Ghiberti, and Brunelleschi. Creative abilities of the Renaissance artist of the 14th and 15th centuries.

30183 HIGH AND LATE ITALIAN RENAISSANCE ART. *Prerequisites: 10053 or 10063 and one 20000 level course or permission of instructor.* 16th century art and architecture in Italy. Special attention to Michelangelo, Leonardo, Raphael, and Titian, with consideration of the changing role of the artist in Italian society.

30193 SYMBOL AND REALITY: RENAISSANCE ART IN NORTHERN EUROPE. *Prerequisite: 10053 or 10063 and one 20000 level course, or permission of instructor.* Painting and printmaking in Germany and the Netherlands from the 14th through the 16th centuries. Artists studied include Jan van Eyck, Rogier van der Weyden, Breugel, Holbein, and Durer.

30203 17th CENTURY ITALIAN AND SPANISH ART. *Prerequisite: 10053 or 10063 and one 20000 level course, or permission of instructor.* Examination of stylistic, cultural, historical aspects of painting, sculpture and architecture of Italy and Spain in the 17th century. Artists studied include Caravaggio, the Carracci, Bernini, Borromini, and Velasquez.

30213 OLD MASTER DRAWINGS. *Prerequisite: 10063 and one 20000 level course, or permission of instructor.* The history and technique of drawings from the 15th through 18th centuries. Emphasis on Raphael, Michelangelo, Rubens and Rembrandt. The class will be scheduled to coincide with traveling exhibitions of drawings at the Kimbell Art Museum.

30333 MODERN ART I: ROMANTIC CLASSICISM TO IMPRESSIONISM. *Prerequisites: 10053 or 10063 and one 20000 level course or permission of instructor.* Movements in European art from 1750 to the 1880's.

30343 MODERN ART II: POST-IMPRESSIONISM TO SURREALISM. *Prerequisite: 10063 and one 20000 level course, or permission of instructor.* European art movements from the 1880s to the 1940s.

30353 PICASSO: ARTIST OF THE CENTURY. *Prerequisite: 10063 and one 20000 level course, or permission of instructor.* Examination of the art, life and influence of Pablo Picasso, who altered the course of the visual arts in our century.

30363 17TH CENTURY FLEMISH-DUTCH PAINTING. *Prerequisite: 10053 or 10063 and one 20000 level course, or permission of instructor.* A study of Netherlandish painting during the Golden Age of Rembrandt and Rubens.

30413 WOMEN AND THE VISUAL ARTS, 1500-1800. This class will examine the evolving roles of women as artists, patrons, and subjects in the visual arts in Europe during 1500-1800, with emphasis on the social, economic, and political context that shaped attitudes towards gender.

30500 SPECIAL TOPICS IN ART HISTORY. *Prerequisite: 10053 or 10063 and one 20000 level course, or permission of instructor.* Independent studies and occasional courses are offered. Such courses may include: Indigenous Arts of the Americas, British Painting, American Architecture, History of Art Criticism, and European Study. (1-6 hours)

30600 ART STUDY ABROAD. *Prerequisite: 10053 and 10063 and one 20000 level course, or permission of instructor.* An intensive, on-site study of art and architecture in foreign lands. Sites have included Europe, the former Soviet Union, Greece, Egypt, China and the South Seas. Includes pre-travel lectures with slides. (1-12 hours) Note: Art history and art studio majors should consult with their advisers before enrolling, since credit hours applicable to their degrees may be limited.

30603 ART SINCE 1945. *Prerequisite: 10063 and one 20000 level course, or permission of instructor.* Aspects of recent styles in relation to historic origins.

30613 MODERN ARCHITECTURE: 1750 TO THE PRESENT. *Prerequisite: 10053 or 10063 and one 20000 level course or permission of instructor.* Architectural styles, movements, and personalities from 1750 to the present.

30623 HISTORY OF THE PRINT. *Prerequisite: 10063 and one 20000 level course, or permission of instructor.* Examination of historical development of the graphic arts from earliest phases to modern prints.

30633 ART IN THE METROPLEX. *Prerequisite: 10053 or 10063 and one 20000 level course, or permission of instructor.* Focus on exhibitions and collections in the Metroplex galleries and museums.

30823 HISTORY OF PHOTOGRAPHY. *Prerequisite: 10063 and one 20000 level course, or permission of instructor.* History of photography with emphasis on its development.

30833 HISTORY OF GRAPHIC DESIGN. *Prerequisite: 10063 and one 20000 level course, or permission of instructor.* History of graphic design with emphasis on 19th and 20th centuries.

40003 SENIOR HONORS PROJECT. Directed research projects in art and art history.

40970 SPECIAL PROBLEMS. Directed individual problems beyond the scope of regular courses in each of the art specialties. *Note:* No student may enroll for a Special Problems course without first discussing the nature of the intended studies and obtaining written permission of the instructor. (1-18 hours)

40980 DIRECTED STUDY IN ART HISTORY. *Prerequisites: Permission of instructor.* Study under faculty supervision which will emphasize writing and be applicable to the UCR Writing Emphasis requirement. Weekly meetings with instructor. (3-6 hours, maximum 3 hours per semester).

Art Education

10803 BASICS IN ART. Basic experiments with variety of materials and techniques. Fundamental aesthetic and expressive characteristics of visual arts. (6 hours per week; studio art supplies required)

20970 INTERMEDIATE STUDIO. (Maximum 3 hours per semester). Directed individual problems to strengthen fundamental knowledge and skills required for advanced studio courses. (1-6 hours)

30013 APPROACHES TO STUDIO ART. Basic craft techniques as a foundation for advanced study and as applicable to the classroom situation.

30803 THE CHILD AND VISUAL ARTS. *Prerequisites: Junior standing in art, and permission of instructor.* Theory and practice in techniques and methods for elementary school art program.

40803 ESSENTIALS OF THE VISUAL ARTS. *Prerequisites: Junior standing in art, and permission of instructor.* Theory and practice with techniques and methods for secondary school art program.

40970 SPECIAL PROBLEMS. Directed individual problems beyond the scope of regular courses in art education. *Note:* No student may enroll for a Special Problems course without first discussing the nature of the intended studies and obtaining written permission of the instructor. (1-18 hours)

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Ballet and Modern Dance

[Departmental Requirements](#)
[Courses of Instruction](#)

(BALT), (MODA)

Available on the Bachelor of Fine Arts degree with a major in Ballet and Modern Dance. The department has the following aims:

1. To train students for professional careers in ballet, modern dance, and as teachers and/or choreographers.
2. To offer its facilities and resources to all students interested in ballet and modern dance as avocational activities and as means of personal and cultural development.
3. To develop an awareness of the role of dance in society.

B.F.A. Degree with a Major in Ballet or Modern Dance. Students may major in ballet, modern dance, or a combined major in ballet and modern dance. Students who want to pursue a double major in both Ballet and Modern Dance must have the approval of the faculty. Students who double major will complete 146 hours of coursework. An audition is required for entrance to and placement in the program for all incoming dance students. Contact the Office of Admissions for audition information.

Teacher Certification Program in Dance. This certification qualifies students to teach dance in secondary education (grades 6-12) in Texas. The program targets TCU Ballet and Modern Dance majors, but students with previous dance training who are majoring in other fields may also qualify. An intermediate level proficiency in technique is required for entrance. The program aims to produce qualified dance teachers who are technically proficient and theoretically informed. (See School of Education: Teaching Fields for Secondary Education.)

Departmental Requirements

1. All majors are required to participate in any major production in which they are cast or given a crew assignment. Performance and production experiences are a vital part of a dancer's training, and all dancers qualified to take part in productions will be given the opportunity to do so. Non-departmental performance activities are subject to the chair's approval.
2. Students majoring in ballet and/or modern dance are accepted for a one-year trial period, during which their potential and progress are evaluated by the dance faculty to ascertain the feasibility of their continuing toward a dance degree. With faculty approval, this trial period may be extended for one additional year.
3. In addition to specifically designated course requirements, a minimum 2.5 cumulative GPA in the major is required as a prerequisite to junior and senior level dance courses. Students whose grade point average has fallen below this level may not enroll in junior or senior level courses until the 2.5 average has been achieved. After enrollment in upper division courses a minimum 2.5 GPA must be maintained as a prerequisite to further advanced enrollment.
4. A dance major is expected to maintain an appropriate dance physique for his/her particular skeletal frame and height, and to maintain an appropriate level of health and physical fitness required for full participation in all areas of dance study.
5. Regulation practice clothes will be required of all students. Tights and shoes for classes and performance must be provided by the student.
6. Men are occasionally provided with specific and separate classes that may substitute for their required daily technique class. Placement in these classes will be according to proficiency.
7. Men are required to attend supported adagio when offered during the entire time they are enrolled in the department.
8. The culmination of a dance major's studies will be a project which may take one of several forms: a formal paper, a research project, a professional apprenticeship, or the public presentation of performing or choreographic skills, etc.

Talented beginners and students with technical deficiencies may be required to enroll in extra classes.

It is acceptable for dance majors to have two majors at TCU. Students wishing to pursue a major in ballet or modern dance while simultaneously pursuing a degree in another department should expect to spend more than four years to complete their degree.

Requirements for a Major in Ballet. Required are 130 semester hours consisting of the following courses:

University Curriculum Req. (UCR)
Includes BALT 10053, 40173 and MODA 10241

46

*Ballet Technique	24
Modern Technique	9
Additional Ballet Courses	22
Additional Modern Courses	12
Music 10003	3
Kinesiology 10603/Biology 20204	3/4
Theatre 10603	3
Approved Dance Elective	3
Electives	4/5

**Majors in levels I and II are required to register concurrently for 0.5 credit of pointe each semester.*

Suggested Courses for the Freshman Year

FALL

BALT 10101, 10103, 10110, 10322	6.5
MODA 10203, 10241	4
UCR	6
Total	16.5

SPRING

BALT 10120, 10053, 10113	6.5
MODA 10213, 10422	5
UCR	6
Total	17.5

Requirements for a Major in Modern Dance. Required are 130 semester hours consisting of the following courses:

University Curriculum Req. (UCR)	46
Includes BALT 10053, 40173 and MODA 10241	
Modern Technique	24
Ballet Technique	9
Additional Modern Courses	18
Additional Ballet Courses	14
Music 10003	3
Kinesiology 10603/Biology 20204	3/4
Theatre 10603	3
Approved Dance Elective	3
Electives	6/7

Suggested Courses for the Freshman Year

FALL

MODA 10203, 10241	4
BALT 10101, 10103, 10322	6
UCR	6
Total	16

SPRING

MODA 10213, 10422	5
BALT 10053, 10113	6
UCR	6
Total	17

The following is a complete list of courses offered by this department. Go to Class Search on Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

Studies in Ballet

10001 MUSIC FOR DANCERS. To be taken concurrently with MUSI 10003, this course provides particular experiences in the aural identification of those elements in music pertinent to the dancer, including rhythm, meter, texture, historical period identification and the recognition of theme and form.

10053 SURVEY OF DANCE. Historical and critical examination of the literature and art of dance designed to develop an understanding and appreciation of the various forms of dance.

10101 CLASSICAL BALLET VOCABULARY. An introduction to the French terminology used in the language of classical ballet.

10103 BALLET TECHNIQUE.

10110 POINTE I. *Prerequisite: Concurrent enrollment in Ballet technique level I.* This course develops the strength, technique and skill specific to pointe work at the beginning level of technique. (Credit: 1/2 s.h.)

10113 BALLET TECHNIQUE.

10120 POINTE II. *Prerequisite: Concurrent enrollment in Ballet technique level I.* Continuation of BALT 10110. (Credit: 1/2 s.h.)

10322 ENSEMBLE AND PERFORMANCE I. Ensemble and performance training for the dancer, including work in groups of two and three and introducing the accompanying partnering skills. Required of all Ballet and Modern majors. Open to others enrolled in technique courses and with permission of instructor.

10333 BALLET TECHNIQUE FOR NON-MAJORS.

10443 BALLET TECHNIQUE FOR NON-MAJORS.

10553 BALLET TECHNIQUE FOR NON-MAJORS.

10663 BALLET TECHNIQUE FOR NON-MAJORS.

20103 BALLET TECHNIQUE.

20110 POINTE III. *Prerequisite: Concurrent enrollment in Ballet technique level II.* This course develops the strength, technique and skill specific to pointe work at the intermediate level of technique. (Credit: 1/2 s.h.)

20113 BALLET TECHNIQUE.

20120 POINTE IV. *Prerequisite: Concurrent enrollment in Ballet technique level II.* Continuation of BALT 20110. (Credit: 1/2 s.h.)

20130 SPECIAL PROBLEMS IN BALLET. Independent project supervised by faculty. (1-8 semester hours)

20142 JAZZ. *Prerequisite: Dance majors or audition and permission of instructor.* Study of Jazz techniques. Classes include warm-up, strengthening exercises and progressions. Course encompasses work in lyrical, contemporary musical theatre and hip-hop styles.

20152 JAZZ. *Prerequisite: Dance majors or audition and permission of instructor.* Continuation of 20142. Technique class specifically for developing strength and proficiency in contemporary jazz, music theatre and audition techniques.

20161 CULTURAL DANCES. This course combines theory and practice of world dances. Students examine specific dances historically, aesthetically, critically, and in performance. Two world arenas will be selected each semester. (1-3 sem.hrs.)

20601 DANCE KINESIOLOGY. *Prerequisite: Dance majors or permission of instructor.* To be taken concurrently with KINE 10603, this course presents the various scientific tools of movement analysis that support and facilitate the work of the dancer and choreographer. Particular emphasis will be put upon the qualitative differences in dance performance and the relationship between scientific and aesthetic aspects of movement.

30003 JUNIOR HONORS SEMINAR. A supervised research experience in Ballet Studies. The topic will be determined in consultation with the supervising professor. Topics may be focused on, but are not limited to, aspects of performance, choreography, history, education or aesthetics.

30103 BALLET TECHNIQUE.

30113 BALLET TECHNIQUE.

30162 BALLET VARIATIONS. Variations from the classical and neo-classical repertoire.

30172 BALLET VARIATIONS AND REPERTORY. *Prerequisite: BALT 30162.* Exploring the Romantic, Classical and neo-classical Ballet Repertoire.

30182 SUPPORTED ADAGIO I. *Prerequisite: Women, BALT 30162; Men, 10322.* Emphasis on supported adagio from classical ballet to more contemporary forms.

40003 SENIOR HONORS SEMINAR. A supervised research experience with a thesis that is usually based on work completed in BALT 30003. Performance may be an aspect of the course. Arrangements for the course, which is offered only as a tutorial, must be made with an instructor prior to enrollment.

40103 BALLET TECHNIQUE.

40113 BALLET TECHNIQUE.

40120 SPECIAL PROBLEMS IN BALLET. Independent project supervised by faculty. (1-6 semester hours)

40173 DANCE HISTORY. *Prerequisite: BALT 10053 or permission of instructor.* This course examines the history of dance from primitive cultures through the classical cultures, the Middle Ages, the Renaissance, the birth of Ballet and its Romantic and Classical periods to the flowering of the Russian Ballet under Petipa at the close of the 19th century.

40183 TWENTIETH CENTURY DANCE. *Prerequisite: BALT 40173 or permission of instructor.* A continuation of BALT 40173, this course examines Classical and Contemporary developments through the 20th century.

50100 BALLET TECHNIQUE. *Prerequisite: Senior or graduate standing.* Theory and practice of ballet. (3-6 semester hours, 3 hours maximum per semester.)

50130 TEACHING METHODS. *Prerequisite: Senior or graduate standing.* Theory, methods and materials of teaching dance. (3-9 semester hours, 3 hours maximum per semester.)

50150 CHOREOGRAPHY. *Prerequisite: Senior or graduate standing.* Creating original works and directing aspects of their productions. (3-12 semester hours)

50160 HISTORY OF THE DANCE. *Prerequisite: Senior or graduate standing.* Research in the areas of dance history. (3-6 semester hours)

50183 SUPPORTED ADAGIO II. *Prerequisite: Senior or graduate standing.* Advanced level of Ballet 30183. Practical practice and/or performance of supported adagio roles.

50320 ADVANCED ENSEMBLE AND PERFORMANCE. *Prerequisite: Senior or graduate standing and permission of instructor.* Technique and ensemble training. May be taken in place of upper level technique classes. (3-9 semester hours, 3 hours maximum per semester.)

Studies in Modern Dance

10203 MODERN TECHNIQUE.

10213 MODERN TECHNIQUE.

10241 THE WORKING BODY. Approaches to healthful and efficient movement through topics including structure, alignment and conditioning particularly appropriate to the aspiring professional dancer.

10333 MODERN TECHNIQUE FOR NON-MAJORS.

10422 ENSEMBLE AND PERFORMANCE II. *Prerequisite: BALT 10322 or permission of instructor.* Continued ensemble and performance training for the dancer with special emphasis in improvisatory skills and group sensitivity. Required of all Ballet and Modern majors.

10443 MODERN TECHNIQUE FOR NON-MAJORS.

10553 MODERN TECHNIQUE FOR NON-MAJORS.

10663 MODERN TECHNIQUE FOR NON-MAJORS.

20203 MODERN TECHNIQUE.

20213 MODERN TECHNIQUE.

20230 SPECIAL PROBLEMS IN MODERN DANCE. Independent project supervised by faculty (1-8 sem.hrs.)

30003 JUNIOR HONORS SEMINAR. A supervised research experience in Modern Studies. The topic will be determined in consultation with the supervising professor. Topics may be focused on, but are not limited to, aspects of performance, choreography, history, education or aesthetics.

30203 MODERN TECHNIQUE.

30211 FRAMEWORKS FOR ACTION. This seminar course is an exploration of dance-related topics providing frameworks for professional success in the field.

30213 MODERN TECHNIQUE.

30242 MODERN DANCE LABORATORY. *Prerequisite: Concurrent enrollment in Modern Technique classes and completion of BALT 10322 and MODA 10422.* Provides students with various opportunities to use their technical training to support their artistic expression. Class begins the development of the student's performing potential.

30253 ELEMENTS OF DANCE COMPOSITION. *Prerequisite: MODA 10422.* Introduction to the craft of choreography beginning with solo studies dealing with the elements of time, space and movement and continuing with concepts from the primitive to the 20th century.

30262 MODERN DANCE PERFORMING AND REPERTORY. *Prerequisite: Junior standing or permission of instructor.* Study of the elements of performing through solo and group works, including concepts of partnering. Class work supplemented by video, film, and observation of live performances.

40003 SENIOR HONORS SEMINAR. A supervised research experience with a thesis that is usually based on work completed in MODA 30003. Arrangements for the course, which is offered only as a tutorial, must be made with an instructor prior to enrollment.

40203 MODERN TECHNIQUE.

40213 MODERN TECHNIQUE.

40220 SPECIAL PROBLEMS IN MODERN DANCE. Independent project supervised by faculty. Individual assignments in technique, teaching, performing, or research. Preparation of dance works (choreography, costumes, lighting and production) for public performance. Related areas include history of modern dance, dance literature, notation and dance careers. (1-6 semester hours)

40243 CONTEMPORARY CHOREOGRAPHY. *Prerequisite: MODA 30253.* An investigation of contemporary forms in choreography and the use of those forms in the creating of original works.

40262 SENIOR PROJECT. *Prerequisite: MODA 40243 or permission of instructor.* A capstone for the four years of study, giving the BFA candidate an opportunity to present a project that demonstrates professional and academic accomplishments. The project may take one of several forms - a formal paper, a research project, a professional apprenticeship or the public presentation of performing or choreographic skills.

40272 MODERN DANCE PERFORMING AND REPERTORY. *Prerequisite: MODA 30262.* Continuation of MODA 30262.

50200 MODERN TECHNIQUE. *Prerequisite: Senior or graduate standing.* Theory and practice of modern dance. (3-6 semester hours, 3 hours maximum per semester.)

50320 ADVANCED ENSEMBLE AND PERFORMANCE. *Prerequisite: Senior or graduate standing and permission of instructor.* Technique and ensemble training. May be taken in place of upper level technique classes. (3-9 semester hours, 3 hours maximum per semester.)

50400 DANCE AESTHETICS. *Prerequisite: BALT 10053, 40173, 40183, and senior or graduate standing.* Discussion and reading concerning performance, choreography, pedagogy, criticism, and/or research. (1-3 semester hours)

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Theatre

[Departmental Facilities](#)[Departmental Requirements](#)[B.F.A. Degree with a Major in Theatre](#)[B.F.A. Degree with a Major in Theatre/Television](#)[B.A. Degree with a Major in Theatre](#)[Minor in Theatre:](#)[Professional Internship Program](#)[Teacher Certification](#)[Honors Program](#)[Suggested Courses](#)[Courses of Instruction](#)

(THEA)

Three degrees are offered in theatre: 1) a Bachelor of Fine Arts (BFA) with a major in theatre production and a specialization in scenery, lighting, or costuming; or a major in theatre performance with a specialization in either dramatic acting or musical theatre; 2) a Bachelor of Fine Arts (BFA) in Theatre/Television; and 3) a Bachelor of Arts (BA) that permits the student to choose a minor in another academic field of study.

The Department of Theatre functions within the context of a liberal arts university, and sincerely believes that the student experience should include areas of investigation beyond the narrowly focused instruction that characterizes most non-university affiliated professional training programs.

The department requires a core of courses in all aspects of the theatre. These courses provide an overall view of the discipline including acting, directing, history and dramatic literature, design and technical production. The core provides a strong background for both the liberal arts and pre-professional student.

Departmental Facilities. The Department of Theatre is housed in Ed Landreth Hall and the Hays Theatre Complex at TCU. Facilities include a 220 seat proscenium arch University Theatre and the new 220 seat Spencer and Marlene Hays Theatre, with a thrust stage. A Studio Theatre is in constant use by students involved in producing shows to test the skills they are developing in the classroom. All theatre spaces have state of the art equipment for teaching theatre technology. Theatre productions are supported by a new Scenic Studio in the Hays complex with a counterweighted paint frame and spray booth for painting scenery and stage properties. A small computer lab is available for student's use and for teaching various software programs specific to the theatre. Additional classrooms for theatre graphics, acting, and history are located in Ed Landreth Hall.

Departmental Requirements. The Department requires majors and minors to participate in departmental productions. Participation in both performance and production broadens the student's background and prepares him/her for advanced study. The student on academic probation will not be permitted to perform in public productions. Additional department policies are explained in a departmental student handbook. All majors and minors are responsible for securing and reading this Handbook. Courses in the theatre major or minor must be taken for a letter grade, and must be completed with a grade of "C" or better to fulfill graduation requirements.

B.F.A. Degree with a Major in Theatre: Required are 124 semester hours consisting of the following: UCR, 47 hours including THEA 10053; 39 hours in Theatre including 10001, 10603, 10613, 10703, 20333, 20713, 30103, 30113, 30403, 30503, 40123/40133 and 10601 (8 semesters). In addition, majors will choose an emphasis in Performance or Production. Required courses in Performance are 20303, 20323, 20343, 30303, and 40853. Required in Production are 30720, 30600, 30623, 30630, and 40543. Students will also select an area of specialization totaling 9 hours and will have 14 hours of electives.

B.F.A. Degree with a Major in Theatre/Television: Required are 124 semester hours consisting of the following: UCR, 47 hours including THEA 10053; 31 hours in Theatre including 10001, 10603, 10613, 10703, 20333, 20713, 30103, 30403, 30503 and 10601 (6 semesters). Required in Radio-TV-Film are 18 hours: including 10143; and one each from 20213, 20223, 20233 and one each from 20503, 20553 and 20363; plus 9 credit hours of electives. Also required are 18 hours of approved electives and 10 hours of free electives.

B.A. Degree with a Major in Theatre. Required are 124 semester hours consisting of the following: UCR 47 hours including THEA 10053; 29 hours in Theatre including 10001, 10603, 10613, 20333, 20713, 30103, 30113, 30403, 30503 and 10601 (4 semesters). A minor of at least 18 semester hours is required on the B.A. degree.
Note: Bachelor of Arts degree requires 6 hrs. of Sophomore Foreign Language.

Minor in Theatre: Required are 19 hours in Theatre including 10001, 10053, 10603, 20333, 30103, 10601 (3 times) and 3 hours of approved upper division theatre elective. A student seeking a minor in Theatre must have an adviser in the Theatre Department.

Professional Internship Program. With departmental approval, majors may take up to 12 hours of elective credit in Theatre Internship courses for experience working with professional programs at area theatres and theatres around the country.

Teacher Certification on the secondary level is available under the B.A. degree program. A 24 hour second teaching field is required plus 24 hours in Education courses.

Honors Program. Theatre majors who plan to pursue Departmental Honors must be members of the Honors Program and should enroll in the Honors section of THEA 10053 in their freshman year, THEA 30003 in their junior year and THEA 40003 during the fall semester of their senior year.

Suggested Courses for the Freshman Year

FALL

THEA 10001	1
THEA 10603	3
THEA 10703	3
Writing Workshop	3
Laboratory Science	3
Physical Education	1
THEA 10601	1
Total	15

SPRING

THEA 10053	3
THEA 10613	3
Religion Studies	3
Laboratory Science	3
History	3
Physical Education	1
THEA 10601	1
Total	17

The following is a complete list of courses offered by this department. Go to Class Search on Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

10001 THEATRE SYMPOSIUM AND PRODUCTION. An introductory course for theatre majors and minors exploring the various facets of theatre including production procedures and discipline through class discussion. This class work focuses on a study of the Theatre Student Handbook.

10053 SURVEY OF THEATRE ARTS. An introductory course covering all aspects of the art of theatre concentrating on the history of Western drama through examination of production and performance techniques and the form and structure of drama.

10203 SURVEY OF MUSICAL THEATRE. Introduction to and examination of the important lyricists, librettists, choreographers and directors of the American Musical Theatre. Lecture and film promote an understanding of the collaborative process that integrates the elements of theatre, music and dance.

10601 THEATRE PRODUCTION. Practical experience in all facets of theatre production, related directly to major stage presentations. (1-8 hours)

10603 STAGECRAFT. An introduction to technical theatre. Includes basic technical information and practical experience in scenic construction, rigging, handling and painting of scenery for the stage.

10613 THEATRE GRAPHICS. Students will learn to read and produce the various graphic work necessary to communication in the theatre. The course covers such elements as ground plans, elevations, section drawings, light plots, figure drawing, perspective drawing and rendering techniques.

10703 STAGE MAKEUP. (Open to majors and minors only.) A laboratory course in modeling with theatrical makeup materials; designed to acquaint the student with the basic techniques of makeup for the stage.

20303 VOICE AND ARTICULATION. *Prerequisite: Theatre major or permission of instructor.* Laboratory course to analyze and develop vocal awareness of skills needed for stage performance.

20323 MOVEMENT FOR THE ACTOR. *Prerequisite: Theatre major or permission of instructor.* Laboratory course to analyze and develop physical performance skills needed for stage performance.

20333 ACTING I. Introduction to acting focusing on freeing inhibitions, developing a working understanding of basic acting techniques and the pursuit of dramatic action.

20343 ACTING II. *Prerequisite: 20333 or permission of instructor.* A continuation of 20333, focusing on character development and relationships through exercises and scene work.

20713 PRACTICAL COSTUMING. Introduction to fundamentals of costume studio management, theatrical sewing techniques, theatrical supplies and fabrics, painting and dyeing, costume properties and accessories, personnel and the process of developing costumes for theatrical productions.

30103 THEATRE HISTORY I. History of theatre from its origins in ancient Greek Civilization to the Renaissance.

30113 THEATRE HISTORY II. Theatre history and dramatic literature from the Restoration to the present.

30123 THE LONDON THEATRE. This is a London based course. It is designed primarily to take advantage of what this great theatre-going city has to offer. The plays and performances in the city's repertory during the semester will determine part of its content. One point should be noted: this course entails a good deal of reading of both plays and criticism and is dependent on it. Four or more plays will be studied in depth, but students taking this course will be expected to acquaint themselves with at least four others.

30303 ACTING III. *Prerequisite: 20343 or permission of instructor.* A student actor's introduction to classical acting techniques. A laboratory class exploring approaches to language based classical text (both verse and prose), designed to develop skills applicable to a variety of period performance styles.

30313 VOICE AND TEXT. *Prerequisite: 20303, theatre major and permission of instructor.* Laboratory course designed to further expand vocal skills through their application to a variety of texts, and the mastery of the tools of phrasing, stressing, and inflection for clear communication.

30323 STAGE COMBAT. *Prerequisite: 20323 or permission of instructor.* A performance course to analyze and develop the physical performance skill of stage combat in the areas of Unarmed Combat, Quarterstaff, and Rapier and Dagger sword work.

30403 DIRECTING. *Prerequisite: 20343 or permission of instructor.* Laboratory course exploring the fundamentals of directing for the stage, emphasizing application of script analysis, composition, picturization, movement, stage business, focus and rhythm through a realized project.

30503 INTRODUCTION TO STAGE LIGHTING. Basic lighting design and implementation for theatrical production with emphasis on the technical aspects of lighting.

30600 DESIGN/TECHNICAL WORKSHOP. An individual study course designed to allow students to develop their skills by working through the design process in assigned theatre projects. (1-3 hours)

30623 SCENE PAINTING. *Prerequisite: 10603.* Practicum in the techniques of painting scenery for the stage.

30630 SCENE DESIGN. *Prerequisite: 10613 or permission of instructor.* Basic principles and techniques of scene design explored through rendering and model building. (3-12 s.h., 3 hrs. max. per sem.)

30713 PATTERN DRAFTING AND DRAPING. *Prerequisite: 20713 or permission of instructor.* Laboratory techniques in drafting patterns for historical costumes.

30720 COSTUME DESIGN. *Prerequisite: 10613 or permission of instructor.* Basic principles of costume design explored through the study of fabric and rendering techniques. (3-12 s.h., 3 hrs. max. per sem.)

30800 THEATRE INTERNSHIP. *Prerequisite: Permission of Department Chair.* Practical off-campus experience in various phases of theatre production and management. (3-12 hours No more than 12 hours may be taken in a combination of 30800 and 50800.)

40123 HISTORY OF SCENE DESIGN. An examination of the evolution of scenic art from the Renaissance to the present through the use of slides and lecture with special attention given to the similarities in easel painting and architectural movements as they influenced the scenic art.

40133 HISTORY OF COSTUME. A lecture/discussion course covering the major historical periods of Western dress in which students learn to research and develop specific projects.

40143 MODERN TRENDS IN THEATRE. This course illumines the complex process of making theatre. Through an examination of contemporary artists and institutions, the course examines: Whose theatre is it-actor, playwright, director, producer, or audience/critic?

40203 MUSICAL THEATRE PERFORMANCE. *Prerequisite: 20343.* Music laboratory course exploring and refining techniques necessary for musical performance. Emphasis on integration of acting, singing and dancing through performance.

40303 ACTING IV. *Prerequisite: 30303 or permission of instructor.* An advanced laboratory course exploring styles of acting; including absurdism and traditional acting approaches to classical literature.

40353 ON-CAMERA ACTING. (Also RTVF) *Prerequisite: Theatre30303 or permission.* An advanced course in acting designed to acquaint the student with changes in technique that are necessary for performance before the film or television camera.

40423 ADVANCED DIRECTING. *Prerequisite: 30403 or permission of instructor.* Continuation of 30403 with greater emphasis on the fundamentals of directing through an extensive realized directing project developed by the student.

40543 ADVANCED STAGE LIGHTING. *Prerequisite: 30503 or permission of instructor.* Course of study in the aesthetics of stage lighting and special effects.

40553 DANCE LIGHTING. *Prerequisite: 30503 or permission of instructor.* A lecture/lab course in the development of dance lighting design and implementation with a study of various designers and their techniques.

40800 INDIVIDUAL STUDY IN THEATRE. Independent research or studio/ performance projects in any facet of theatre study. (3-6 hours)

40853 MANAGING A PERFORMANCE CAREER. (Also RTVF) *Prerequisite: Theatre major or permission of*

instructor. A study of business practices designed to help the graduating student locate and secure employment in the performing arts, musical theatre, theatre commercials, television and film.

50300 PROBLEMS IN ACTING. Projects in acting utilizing scenes or roles for study and performances (1-6 hours)

50400 PROBLEMS IN DIRECTING. Individual projects for the advanced study of directing. (3-6 hours)

50600 PROBLEMS IN SCENOGRAPHY. Seminar and/or practicum in selected areas of technical theatre. The student may elect research and/or project oriented study on an individual or group basis. (3-6 hours)

50700 PROBLEMS IN COSTUMING AND MAKEUP. Individual or class projects in one area: costume design, costume research, makeup prosthetics/mask construction, wig making, rendering techniques, plastics and celastic; jewelry making. (3-6 hours)

50733 ADVANCED PATTERN DRAFTING. Techniques in drafting complex period and other costume patterns for the stage.

50743 ADVANCED COSTUME DESIGN. *Prerequisite: 50733.* Practicum in the techniques of design and rendering.

50803 THEATRE MANAGEMENT. The administrative and fiscal techniques of managing performing arts groups.

Honors Courses

30003 JUNIOR HONORS SEMINAR. Directed readings in the works of a major playwright or in the writings of a major period of theatre history. Students with unusual creative ability may be permitted to direct, choreograph, design a production, or perform a demanding role. Analytical papers will be required.

40003 SENIOR HONORS SEMINAR. Students with outstanding talent may use the design or directing of a production or the performance of a demanding role as material for an analytical paper.

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College of Health and Human Sciences

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TCU has a long history of offering courses and degrees that contribute to the health and well-being of the community. The College of Health and Human Sciences enhances that tradition by uniting the Harris School of Nursing and three departments-Communication Sciences and Disorders, Kinesiology, and Social Work-in an integrated unit. The degree programs offered by the College build on the excellent foundation provided by the liberal arts and sciences and prepare graduates to practice in complex and varied professional settings. Many of the courses offered in the College allow students to learn through practicing in professional and clinical settings and encounters with multiple and diverse disciplines, practitioners, and clients. Both classroom and practice environments facilitate the acquisition of skills to manage technology, an essential aid in finding information and solving problems.

The faculty of the College have created an atmosphere where learning is a part of the lives of all members of the College community. Faculty are committed to providing individual attention to student achievement and development. Faculty are actively involved in teaching, working closely with students in laboratory and clinical experiences at both undergraduate and graduate levels. Faculty also serve as academic advisors and provide career and professional guidance. By integrating clinical practice, professional and community service, and research activities, the faculty demonstrate their commitment to academic excellence and leadership.

Mission

The College is dedicated to advancing knowledge and understanding of physical and mental health and development. The College is further committed to integrating research and ethical practice to prepare graduates who promote all aspects of health and enhance the human condition. Faculty fulfill this mission by offering a dynamic curriculum that is responsive to the local and global community. Students are prepared for a variety of professional roles, including clinical and generalist practice, teaching, or further study in graduate programs. Faculty provide exemplary education in the context of the highest standards, preparing students to enter careers that will benefit society.

Degrees and Majors

The College of Health and Human Sciences offers the following degrees and majors:

- Bachelor of Science in Nursing
- Bachelor of Science in Social Work
- Bachelor of Science with majors in:
 - Habilitation of the Deaf and Hard of Hearing
 - Speech-Language Pathology
 - Health and Fitness
 - Movement Science
 - Physical Education
 - Psychosocial Kinesiology

Minors and Programs

The Department of Social Work offers a minor in Social Work. Minors are also offered in Habilitation of the Deaf and Hard of Hearing and Speech-Language Pathology by the Department of Communication Sciences and Disorders. Minors in Movement Science and in Health are offered by the Department of Kinesiology, as well as an accredited program in Athletic Training.

Curriculum

Students seeking a Bachelor of Science degree must fulfill all the degree requirements described in detail earlier in the Bulletin. This includes completion of the minimum number of credit hours, typically 124, specified by their majors in the following categories:

I.University Curriculum Requirements - 47 credit hours

AFOUNDATIONS - 9 credit hours

B.EXPLORATIONS - 36 credit hours

C.PHYSICAL EDUCATION - 2 credit hours

II.Curriculum Requirements of the Major - variable credit hours

Pass/No Credit Option

The department of the major controls approval of P/NC grading options. Departments typically do not allow P/NC grading in courses in the major or prerequisite and/or associated requirements.

Multiple Majors

Students with a first major in the College may declare an additional major on the B.S. degree. Approval by the department and college of both majors is necessary. The degree awarded will be that of the first major. All degree requirements for each major must be satisfied, including all University Curriculum Requirement associated with any major as well as all other requirements.

Transfer Credit

Students must receive approval of courses they wish to take at another college or university following their admission to Texas Christian University. Students should gain specific course recommendations from department advisors, then seek approval from the office of the Dean of the College. Students may not interrupt their last thirty hours with coursework at another institution.

Degree Plan and Notification of Intent to Graduate

Students must request a degree plan in the Office of the Dean typically after completing 60 hours. After a degree is awarded, no further work may be applied to the degree. Students must also file an Intent to Graduate in the Office of the Dean at the beginning of the last year of course work.

Academic Advisement

Students are responsible for meeting degree requirements of the major. It is essential that students understand their degree plans and maintain communication with their departments. Students are strongly encouraged to meet with a departmental advisor on a regular basis, reviewing progress toward the degree.

Programs:

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Harris School of Nursing

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Mission

Harris School of Nursing endorses the Mission and Vision of Texas Christian University. The mission of the School of Nursing is to prepare professional nurses to identify and respond with competence to multiple, complex human health-care needs. Graduates serve society through professional nursing roles and provide ethical leadership in practice, administration, teaching, and scholarship. The School is dedicated to professional nursing education based on a foundation of liberal arts, sciences, and humanities and to the promotion of an environment that encourages lifelong learning. The School further affirms a commitment to professional competence and civic and professional responsibilities in a global society. The Nursing program is designed to meet the needs of those interested in obtaining the Bachelor of Science in Nursing degree.

Philosophy

The faculty of Harris School of Nursing, an academic unit of Texas Christian University, affirms that individuals are holistic beings who possess inherent worth. The faculty believes that the education of the professional nurse should prepare a graduate who exhibits qualities of mind and character that are necessary to live a fulfilling life, act in the public interest locally and globally, and promote health and the nursing profession. The teaching / learning process is multidimensional and interactive, involving affective, cognitive, and psychomotor changes. A liberal educational foundation assists persons to think critically and to seek improvement in themselves, the profession, and society. A liberal education provides the basis for the development of core competencies and knowledge of professional nursing. The Harris School of Nursing faculty embraces the professional values of altruism, autonomy, human dignity, integrity, and social justice. Nursing practice, conduct, and relationships are guided by professional standards and the *ANA Code for Nurses*. Sound clinical judgments characterize the practice of the professional nurse in providing safe, humanistic care of individuals, families, and groups in and across diverse environments.

Portions of the above are based on the *Essentials of Baccalaureate Education for Professional Nursing Practice*, published by the American Association of Colleges of Nursing (1998), Washington, DC.

Program Goals

The program goals of Harris School of Nursing are as follows:

- 1.Support the University's Mission, Vision, Core Values, and Goals.
- 2.Prepare graduates who are competent to meet the unique, multiple, and complex human health needs of a global society.
- 3.Promote values and behaviors that encourage respect for diversity, acknowledge human worth and dignity, and support professional nursing practice.
- 4.Foster an appreciation for the necessity of learning, thinking critically, and continuing to grow personally and professionally.
- 5.Contribute to the nursing profession and to society by engaging in scholarship, leadership, and service.

Accreditation and Licensure

The School, enabled by a trust fund established by the late Dr. Charles Houston Harris, was organized as an academic unit of TCU in 1946. Harris School of Nursing is accredited by the Board of Nurse Examiners for the State of Texas (BNE), P. O. Box 430, Austin, TX, 78767-0430, 512-305-7400. Graduates are eligible to sit for the examination for licensure as a registered nurse (R.N.) in Texas or any other state in the United States. Successful completion of the National Council Licensure Examination in one state qualifies graduates to apply for licensure in any other state. Harris School of Nursing first achieved national accreditation in 1952 and has remained accredited since that time. In addition to the BNE, the School is accredited by the Commission on Collegiate Nursing Education (CCNE), One Dupont Circle, NW, Suite 530, Washington, DC, 20036-1120, 202-887-6791.

In compliance with the policy of the Board of Nurse Examiners for the State of Texas, all applicants are informed that completion of the BSN degree does not guarantee eligibility for the registered nurse licensure examination. Professional character is necessary for an individual to conform to the requirements of the Nurse Practice Act. Individuals should seek special advising prior to enrolling in any professional nursing program in Texas if they have a personal history involving conditions that may endanger the health and safety of a person. Such conditions include but are not limited to: (1) a felony conviction involving acts likely to affect professional practice, (2) a misdemeanor conviction involving moral turpitude, or (3) physical or mental disability/illness, including prior or continued drug or alcohol abuse, that influences the ability to practice professional nursing. (Board of Nurse Examiners for the State of

Texas, excerpts from the *Rules and Regulations Relating to Professional Nurse Education, Licensure and Practice, §213.27-§213.30*, November 1999, pp. B17-B23). Some clinical facilities may require criminal background checks and / or drug screenings of students. Further licensure information is available in the office of the Director, Harris School of Nursing, TCU Box 298620, Fort Worth, TX 76129. In compliance with the Americans with Disabilities Act (ADA), a description of the abilities required for admission to and completion of the BSN curriculum is available upon request from the Director of the School.

Enrollment in the Nursing Major

TCU Students. TCU students must have a 2.5 TCU cumulative grade point average (GPA) to enroll in courses limited to the nursing major.

Change of Major. A TCU student may change to the nursing major if the student is not on academic warning or probation and has or can reasonably expect to have a 2.5 TCU cumulative GPA by the time the student is ready to enroll in courses limited to the nursing major. The student must meet the requirements for graduation based upon the published TCU Bulletin at the time of entry into the major.

Reenrollment. The student who has been a nursing major and leaves TCU must apply for reenrollment after an absence of a full fall or spring semester. If the student meets enrollment criteria, the Registrar's Office will contact the Harris School of Nursing to receive approval for the student to reenroll as a nursing major. The student must meet the requirements for graduation based upon the published TCU Bulletin at the time of reentry into the nursing major. Reentering students may be required to pass comprehensive mastery exam(s).

Additional Bachelor's Degree. A student with a previous undergraduate degree from TCU must meet the same enrollment requirements as other TCU students. A student with a Bachelor's degree from another university is considered a transfer student.

Transfer Students (a student who has been out of high school for at least one full semester and has attempted college or university work elsewhere for credit). Individuals who plan to apply as transfer students are urged to contact the TCU Admission Office and Harris School of Nursing in order to receive current information. The number of new transfer students admitted to practicum courses each semester are determined by the availability of faculty, facilities, and the number of qualified continuing TCU students. Selection of transfer students for initial entry into practicum courses is based upon indicators of the applicant's likelihood of success in the nursing program and in professional practice.

Transfer students must have at least a 2.5 cumulative GPA from other colleges/universities to be admitted to TCU as a nursing major. Transfer students are required to meet with an adviser to receive approval to enroll in nursing or prerequisite courses.

Deadlines for application for initial entry into practicum courses are established by Harris School of Nursing. Transfer applicants are advised to contact the School of Nursing as early as possible in the application process.

Transfer students will not be permitted to pursue a nursing major at TCU if they have been previously enrolled in another nursing program and were not in good standing upon exit or are not admissible to the previous program(s). All transfer student applicants who have been previously enrolled in a nursing program must submit, as part of their application, a letter from the dean or director of that nursing program indicating eligibility status for readmission.

Other Requirements. In addition to enrollment and progression policies, students must meet the following requirements to enter nursing courses.

1. completion of prerequisite courses with grades of "C" or higher
2. current cardiopulmonary resuscitation (CPR) for healthcare providers card
3. documentation of required immunizations
4. no more than 12 credit hours of University Curriculum Requirements (UCR) that have not been completed

Progression in the Nursing Major

Nursing Prerequisites

The following courses must be completed with a grade of "C" or higher before entering the first practicum nursing courses

Anatomy & Physiology I (BIOL 20204 / Lab)	4
Anatomy & Physiology II (BIOL 20214 / Lab)	4
Microbiology (BIOL 20233 / Lab)	3
Lifespan Growth and Development (NURS 10303)	3
Introductory Psychology (PSY 10213)	3
Introductory Sociology (SOC1 20213)	3
U.S. History	3
Math - Elementary Statistics (MATH 10043)	3
Nutrition (NTDT 10403)	3

Enrollment in all nursing courses limited to the nursing major requires at least a 2.5 TCU cumulative GPA.

Students may repeat one nursing course if less than a "C" or a "No Credit" (NC) grade is earned.

Students are discontinued from the major if grades of "D", "F", or "NC" are earned in two or more nursing courses (excluding NURS 10303 Human Development).

Students who are repeatedly unable to achieve or maintain a 2.5 GPA are discontinued from the major.

Students may be discontinued from the nursing major when their academic, practicum, or personal performance is determined to be inconsistent with professional responsibility and accountability. In rare instances, the safety of patients may necessitate removal of a student from practicum. Faculty members are responsible for recommending this action to the Director of the School when indicated.

As a minimum requirement for participating in a practicum, students' performance must be in compliance with the Standards of Clinical Nursing Practice published by the ANA and the Texas Board of Nurse Examiners' Rules and Regulations including ". . . not accepting an assignment when one's physical or emotional condition prevents the safe and effective delivery of care . . .". When in the opinion of the instructor a student is not prepared for the educational activity or is in violation of these rules for any reason, including but not limited to, impairment by reasons of alcohol and/or drug abuse, the student is dismissed from practicum for the day by the instructor. The instructor may recommend further action to the Director.

Requirements for Graduation. For the Bachelor of Science in Nursing degree a student must have:

A 2.0 cumulative GPA for all coursework completed at TCU.

Completed all nursing courses required for the major with grades of "C" or higher.

Completed all University Curriculum Requirements.

Multiple Majors. Nursing students may, with prior approval of appropriate academic deans, pursue an additional major concurrent with nursing. Such students must declare nursing as the first major and complete all degree requirements for both nursing and the additional major. Students interested in this option are encouraged to meet with advisers from both majors as soon as possible to develop an academic plan.

Practicum Course Requirements. Prior to patient contact, students must submit a copy of written verification of:

Measles in combination with rubella and mumps vaccines (MMR Trivalent vaccine)

One dose of tetanus-diphtheria vaccine within at least 10 years

A completed three-dose series of the Hepatitis B vaccine.

Students must annually submit a copy of written verification of:

A negative tuberculosis mantoux test (or chest x-ray or physician's recommendation). If the student has previously tested positive or has recovered from tuberculosis, certification from a physician must be provided indicating the student is not contagious.

Current health care provider level CPR certification

All students enrolled in practicum nursing courses must attend mandatory practicum orientations and testing sessions each semester. The student may be dropped from the course(s) if absent. Students must demonstrate mastery of prerequisite material by passing examinations specified by the faculty and which are, in the opinion of the faculty, critical to the safe care of patients. Failure to pass mastery examination will result in mandatory enrollment in a special problems course. The student must successfully complete the special problems course in a timely manner in order to pass the related practicum.

General Information

Finances. Students enrolled in Harris School of Nursing are responsible for the related fees. Each practicum course carries a laboratory fee. Fees are charged for standardized achievement tests. Participation in preparation for the National Council Licensure Examination including enrollment in a review course and purchase of review material may be required. The Board of Nurse Examiners Licensing fee is charged to all students planning licensure as registered nurses in the State of Texas and remitted to the Board of Nurse Examiners for the State of Texas. Purchase of uniforms is required. Professional liability insurance is required each year beginning in the sophomore year, second semester.

Transportation. Limited city bus service is available for transportation to practicum facilities. Plans should be made for the use of a car or shared transportation beginning with the first practicum nursing course.

Nursing Scholarships and Grants-in-Aid. A variety of scholarships and grants-in-aid are available to high school graduates and to students who have completed one or more years of college work. In addition, loans and tuition reimbursement are available from some area hospitals. Applications are made through the Director of Financial Aid, who can provide further information upon request.

Employment. Students may be employed on or off campus as opportunities are available and the course load and schedule permits. Work schedules should allow sufficient time for study. Students employed in clinical agencies may not wear the name tag or School patch during such employment. Students who are employed in a clinical setting must not sign their names as nursing students.

The Nursing Student Association. This organizational branch of the Texas Nursing Students' Association and the National Student Nurses' Association provides students opportunities to participate in local, state, and national affairs. These organizations are concerned with the role of the nursing student, the role of the nurse in the community and the future of nursing. Meetings are held monthly and regional meetings can be attended each semester. Participation is strongly encouraged.

Learning Center. A Learning Center in the Annie Richardson Bass Building is available to all nursing students to

enhance independent learning and to provide access to computers, audiovisual materials, and a practice lab for mastering clinical skills. In the Learning Center, the student will become an active participant in an environment that facilitates both individual and small group learning situations. Computer assisted instruction and practical learning experiences enhance the students' knowledge gained through the classroom lecture component of the program. Students are required to use the labs for practice and demonstration of nursing skills. Faculty and staff are available to supervise the students during their lab experience. In addition to this facility and other University resources, nursing students have access to other libraries located in other universities and various clinical facilities in the area.

Testing Program. Students are required throughout the program to sit for standardized achievement tests. Results of these tests provide a basis for review of individual student achievement as well as program effectiveness.

Sigma Theta Tau International. Since 1970, the Beta Alpha Chapter of the International Honor Society for Nursing, Sigma Theta Tau, has selected members from the Harris School of Nursing student body on the basis of academic merit. Qualified students are invited to join during their junior or senior years.

Honors Program. Nursing majors who plan to pursue Departmental Honors must be members of the University Honors Program and are advised carefully for such achievement. The School supports and encourages participation in the Honors Program.

The Bachelor of Science in Nursing Degree

Curriculum Plan. Harris School has initiated an innovative curriculum designed to prepare graduates to work in a wide variety of agencies, clinics, home care agencies, and other community-based facilities in addition to hospitals and extended care facilities. Emphasis in classrooms and patient care settings is on the development of critical thinking, logical reasoning, and decision-making. Students are expected to assume considerable responsibility for their own learning. They are expected to become increasingly independent in the exercise of clinical judgment and in application of nursing process to a variety of nursing problems and situations.

Nursing courses constitute approximately one-half of the four-year program. The sequence of nursing courses provides learning experiences in all major practice areas and in a variety of institutions and agencies in and around Fort Worth and Tarrant County.

Typical Schedule

Schedules for University Curriculum courses may vary for individual students.

All of the nursing courses listed below in addition to all courses designated with # must be completed with grades of C or above.

FRESHMAN YEAR

Semester 1

English 10803 (Introduction to Composition)	3
# BIOL 20204 (Human Anatomy & Physiology)	4
# PSYC 10213 (General Psychology)	3
# HIST, United States	3
Foreign language	3
Total hours	16

Semester 2

Religion	3
# BIOL 20214 (Human Anatomy & Physiology)	4
NURS 10303 (Human Development)	3
# SOCI 20213 (Introductory Sociology)	3
Foreign language	3
Total hours	16

SOPHOMORE YEAR

Semester 1

English 20803 (Intermediate Composition)	3
# NUTR 10403	3
# BIOL 20233 (Microbiology)	3
# MATH 10043 (Elementary Statistics)	13
Explorations Elective	3
Total hours	15

Semester 2

NURS 20033 Teaching Strategies for Professional Practice	3
NURS 20222 Provider of Care I: Concepts	2
NURS 20282 Provider of Care I: Practicum	2
NURS 30043 Survey of Professional Nursing	3
Fine Arts	3

Free Elective	3
Total hours	16

JUNIOR YEAR***Semester 1

NURS 30053 Critical Inquiry into Health Care Delivery	3
NURS 30163 Introduction to Pharmacology	3
NURS 30212 Provider of Care II: Concepts	2
NURS 30282 Provider of Care II: Practicum	2
NURS 30632 Gerontological Nursing	2
Upper Division Elective	3
Total hours	15

Semester 2

NURS 30714 Adult Nursing I: Concepts	4
NURS 30783 Adult Nursing I: Practicum	3
NURS 30813 Psychiatric-Mental Health Nursing: Concepts	3
NURS 30882 Psychiatric-Mental Health Nursing: Practicum	2
NURS 30951 Professional Leadership Seminar I	1
Social Science Elective	3
Total hours	16

SENIOR YEARSemester 1

NURS 40114 Adult Nursing II: Concepts	4
NURS 40183 Adult Nursing II: Practicum	3
NURS 40312 Maternity Nursing: Concepts	2
NURS 40382 Maternity Nursing: Practicum	2
NURS 40412 Pediatric Nursing: Concepts	2
NURS 40482 Pediatric Nursing: Practicum	2
NURS 40551 Professional Leadership Seminar II	1
Total hours	16

Semester 2

NURS 40632 Nursing Research and Theory	2
NURS 40813 Community Health Nursing: Concepts	3
NURS 40882 Community Health Nursing: Practicum	2
NURS 40912 Nursing Management & Leadership: Concepts	2
NURS 40982 Nursing Management & Leadership: Practicum	2
NURS 40993 Role Transition: Nursing Internship	3
Total hours	14
GRAND TOTAL HOURS	124

*** Summer work in non-nursing courses is recommended prior to junior year

¹ MATH 10043 is a prerequisite to NURS 40632

The following is a complete list of courses offered by this department. Go to Class Search on Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

NURS 10111, 10121, 10131, 10303, 20033, 30063, and 30053 ARE OPEN TO ALL MAJORS. SOME MAY REQUIRE PERMISSION OF INSTRUCTOR.

10111 DRUGS AND THE CONSUMER. Open to all majors. Presentation and discussion of the major classes of both prescription and over the counter drugs in terms of use, safety, drug-drug, and drug-food interactions with emphasis on the role of the informed consumer. Students are provided with the necessary tools to safely and intelligently evaluate drugs and to make an informed choice regarding their use.

10121 HEALTHY LIFESTYLES. Open to all majors. An introduction to health concepts and applications to daily life. Special emphasis placed on stress management, diet and exercise, sexual practices, and safety.

10131 HIV/AIDS FACTS AND ISSUES. Open to all majors. Provides an understanding of Human Immunodeficiency Virus/Acquired Immune Deficiency Syndrome with a focus on prevention of this disease as well as related infections. A description of HIV and classification as well as epidemiology and related societal events are discussed.

10303 HUMAN DEVELOPMENT. Open to all majors. *Prerequisite or concurrent: PSYC 10213.* Introduces the student to principles of growth and development throughout the life cycle from conception to death. Provides an

overview of the major theories of human development.

20033 TEACHING STRATEGIES FOR PROFESSIONAL PRACTICE. Open to all majors. *Prerequisite:* NURS 10303 or concurrent with permission from the instructor. Introduces theoretical framework for health education and change. Describes the health teaching/learning system and provides opportunity for practical application in multiple settings.

20231/20232/30330 SPECIAL PROBLEMS IN NURSING. Supervised study for students who transfer into Nursing or for students who exhibit special needs.

20222 PROVIDER OF CARE I: CONCEPTS. *Prerequisites:* BIOL 20204, 20214, 20233, NURS 10303, NTDT 10403; *concurrent:* NURS 20282; *prerequisite or concurrent:* NURS 20033, 30043. Principles of health assessment, health promotion and nursing process in the care of clients throughout the lifespan are addressed. Assessment of the integumentary, musculoskeletal, cardiovascular and respiratory systems is covered. Application of health promotion is emphasized.

20282 PROVIDER OF CARE I: PRACTICUM. *Prerequisites:* BIOL 20204 20214, 20233, NURS 10303, and NTDT 10403; *concurrent:* NURS 20222; *concurrent or prerequisite:* 30043, 20033. The acquisition and application of health assessment, health promotion and nursing process in the care of clients throughout the life span.

30002 JUNIOR HONORS SEMINAR. *Prerequisite:* Junior status. Students with GPA of 3.4 or above are invited to enroll. Seminar explores contemporary issues related to health practices and behaviors relevant to professional nursing. Research studies emphasized.

30043 SURVEY OF PROFESSIONAL NURSING. *Prerequisites or concurrent:* HIST 10613 or 10603, SOCI 20213, ENGL 10803, ENGL 20803. Exploration of key factors influencing development and practice of professional nursing. Emphasis on culture, ethics, values, and history as context of health care and professional practice. Includes legal foundations of practice, essential knowledge, behaviors, and skills of professional nursing.

30053 CRITICAL INQUIRY INTO HEALTH CARE DELIVERY. *Prerequisite or concurrent:* ENGL 10803, 20803. Open to all majors with Junior status. Analyzes the health care delivery system in the United States and selected countries. The role of the health care provider in influencing public policy related to health care is included. Students analyze the economic, human, and physical resources necessary and available for health care.

30063 GLOBAL PERSPECTIVES IN HEALTH. Open to all majors. The course examines selected cultures in an international setting. Social and scientific factors are related to health beliefs and practices. Health care delivery systems of the country are examined. Includes critical analysis of selected topics. Usually taught in the summer abroad program.

30163 INTRODUCTION TO PHARMACOLOGY. *Prerequisites:* NURS 20222, 20282, 20033, 30043. Introduction to pharmacodynamics and pharmacokinetics. Includes basic terminology and mathematical calculations used in medication administration and the study of specified classifications of medications, their actions, side effects, adverse actions, nursing implications and drug administration. (Two hours lecture, three hours laboratory per week.)

30212 PROVIDER OF CARE II: CONCEPTS. *Prerequisites:* NURS 20222, 20282, 20033, 30033, 30043; *prerequisite or concurrent:* NURS 30163; *concurrent:* NURS 30282. Health assessment, health promotion, and nursing process in the care of clients throughout the lifespan continues in this course. Assessment of gastrointestinal; genitourinary; eyes; ears, nose and throat; and neurological systems is covered. Application of health promotion for the student continues. At the completion of NURS 20222, 20282, 30212, and 30282 the student has completed three semester hours of health assessment through the lifespan.

30282 PROVIDER OF CARE II: PRACTICUM. *Prerequisites:* NURS 20033, 20222, 20282, 30043; *prerequisite or concurrent:* NURS 30163; *concurrent:* NURS 30212. A continuation of acquisition and application of health assessment, health promotion, and nursing process in the care of clients throughout the lifespan. The course includes a skills lab and clinical experience. At the completion of NURS 20222, 20282, 30212, and 30282 the student has completed three semester hours of health assessment through the lifespan.

30330 MATH AND DRUG CALCULATION FOR NURSES. *Prerequisite:* Permission of the instructor. A variable semester hour course of supervised study for students who transfer into Nursing or for those students who exhibit special needs during the junior or senior year. Offers instruction to the student who needs continued guided learning and practice in the calculation of dosages and solutions. The student will concentrate on the performance of the necessary math skills for calculation, the importance of accuracy, and application to specific kinds of nursing situations.

30503 ISSUES IN WOMEN'S HEALTH. Open to all majors. *Prerequisite:* Junior status or permission of instructor. An overview of women's health issues using various social frameworks for analysis. Emphases include prevention, self-care, and social parameters of issues related to reproduction, aging, stress, and roles.

30632 GERONTOLOGICAL NURSING. *Prerequisites:* NURS 20222, 20282, 20033, 30043. Issues relating to an aging population such as demographics, ageism, attitudes, and intergenerational concerns. Focuses on healthy aging as well as the specialized needs and nursing care of older persons based on the common physical and psychosocial changes that occur during the aging process. The impact of selected physical and mental health conditions is discussed. Includes observational experiences with older persons in a variety of community settings.

30714 ADULT NURSING I: CONCEPTS. *Prerequisites:* NURS 30163, 30212, 30282, 30632; *concurrent:* NURS 30783. Application of nursing process and theories to the health restoration of clients and families experiencing acute disruptions of selected body systems. Concepts of pathophysiology, pharmacology, and nutrition are integrated.

30783 ADULT NURSING I: PRACTICUM. *Prerequisites:* NURS 30163, 30212, 30282, 30632; *concurrent:* NURS 30714; *concurrent or prerequisite:* NURS 30951. Students use nursing process, theories, and research findings in caring for adult clients and families with acute disruptions of selected body systems.

30813 PSYCHIATRIC-MENTAL HEALTH NURSING: CONCEPTS. *Prerequisites:* NURS 30163, 30212, 30282, 30632; *concurrent:* NURS 30882. Concepts and principles of individual, family, group and community systems experiencing psychopathology are explored. Mental health alterations and the human responses evoked from those alterations are discussed. The use of nursing strategies and actions in the promotion of mental health is emphasized.

30882 PSYCHIATRIC-MENTAL HEALTH NURSING: PRACTICUM. *Prerequisites:* NURS 30163, 30212, 30282, 30632; *concurrent:* NURS 30813. Application of the nursing process with individuals, families, and groups experiencing psychosocial alteration or pathology.

30951 PROFESSIONAL LEADERSHIP SEMINAR I. *Prerequisite or concurrent:* NURS 30053. Focuses on responsibilities, skills, and values of profession. Emphasizes strategies in professional role development. Explores communication, accountability, and responsibility for professional practice by analyzing issues in health care.

40003 SENIOR HONORS PROJECT. *Prerequisites:* Completion of Junior Honors Seminar; grade point average 3.4. Scholarly project is required involving an area of nursing for in-depth investigations.

40113 ETHICAL DILEMMAS IN HEALTH CARE. Open to all majors. *Prerequisites:* SOCI 20213, SOCI 20233, junior status or permission of instructor. Provides the student an opportunity to explore ethical problems related to health care.

40114 ADULT NURSING II: CONCEPTS. *Prerequisites:* NURS 30714, 30783, 30813, 30882, 30951; *concurrent:* NURS 40183. Application of nursing concepts and nursing process to adult clients and families who are experiencing complex acute or chronic disruptions of selected body systems. Concepts related to chronic and terminal illness and rehabilitation and quality of life issues are examined. Concepts of pathophysiology, pharmacology, and nutrition are integrated.

40183 ADULT II NURSING: PRACTICUM. *Prerequisites:* NURS 30714, 30783, 30813, 30882, 30951; *prerequisite or concurrent:* NURS 40114. Students use the nursing process, nursing concepts, and research-based nursing interventions in caring for adult clients with complex acute, chronic, or terminal disruptions of selected body systems and their families. Students work with interdisciplinary teams in providing acute and chronic care. Students will have experiences in critical, subacute care, and community agencies servicing clients with chronic and/or terminal illnesses.

40312 MATERNITY NURSING: CONCEPTS. *Prerequisite:* NURS 30714, 30783, 30813, 30882, 30951; *concurrent:* NURS 40382. Nursing process and theories are used with childbearing women and infants, throughout the perinatal period, including normal adaptation and disruptions. The role of nursing in the restoration of health by cooperative relationships with these individuals and groups is emphasized. Legal, research, sociocultural, and ethical implications of nursing practice are considered.

40382 MATERNITY NURSING: PRACTICUM. *Prerequisites:* NURS 30714, 30783, 30813, 30882, 30951; *concurrent:* NURS 40312. Application of the nursing process to assist in health restoration of high risk childbearing women and their families. Emphasis is placed on case management of families, collaboration with the health care delivery team and families, and a systems approach to the delivery of care.

40412 PEDIATRIC NURSING: CONCEPTS. *Prerequisites:* NURS 30714, 30783, 30813, 30882, 30951; *concurrent:* NURS 40482. Nursing process is applied to children experiencing acute and chronic disruptions to their health. The role of nursing in the restoration of health by cooperative relationships with the child and family is emphasized. Legal, research, sociocultural, and ethical implications of nursing practice are considered.

40482 PEDIATRIC NURSING: PRACTICUM. *Prerequisites:* NURS 30714, 30783, 30813, 30882, 30951; *concurrent:* NURS 40412. Application of the nursing process to assist in health restoration of children experiencing chronic and acute disruptions of health. Emphasis is on collaboration with the family and the health care delivery team and the family, and a systems approach to the delivery of care.

40543 CRITICAL ASPECTS OF PEDIATRIC NURSING. Nursing elective. Fifteen class hours and 90 practicum hours. *Prerequisites:* NURS 40114, 40183, 40412, 40482. Designed to allow the student optimum opportunity for in-depth exploration of aspects of pediatric nursing of particular individual interest to the student.

40551 PROFESSIONAL LEADERSHIP SEMINAR II. *Prerequisites or concurrent:* NURS 30951 *Professional Leadership Seminar I.* Focuses on professional standards and accountability essential to the baccalaureate nursing graduate role. Explores role of the nurse as a member of the health care team. Emphasizes scope of professional practice and development of personal goals.

40632 NURSING RESEARCH AND THEORY. *Prerequisites:* MATH 10043; NURS 30053, 40114, 40183, 40312, 40382, 40412, 40482, 40551. The use of theory and research in the construction of a scientific knowledge base for nursing practice is discussed. Research as a process for developing and examining clinically-based nursing questions is examined. The importance of evidence-based practice is emphasized.

40813 COMMUNITY HEALTH NURSING: CONCEPTS. *Prerequisites:* NURS 30053, 40114, 40183, 40312, 40382, 40412, 40482, 40551; *concurrent:* NURS 40882. The concept of community/aggregate as client is examined. Methods of community/aggregate assessment, diagnoses, planning, implementation, and evaluation are analyzed. Roles in Community Health Nursing are explored. Nursing's role in meeting the health care needs of a total population is examined. Systems theory, epidemiology, levels of prevention, and the nation's objectives for

health are analyzed.

40882 COMMUNITY HEALTH NURSING: PRACTICUM. *Prerequisites: NURS 30053, 40114, 40183, 40312, 40382, 40412, 40482, 40551; concurrent: NURS 40813.* The nursing process is applied to community/aggregate as Client. Communities/aggregates are assessed, community/aggregate diagnoses are identified, macro-level interventions planned, implemented, and evaluated. Systems theory, epidemiology, levels of prevention and the nation's objectives for health are discussed.

40912 NURSING MANAGEMENT AND LEADERSHIP: CONCEPTS. *Prerequisites: NURS 30053, 40114, 40183, 40382, 40412, 40482, 40551; concurrent: NURS 40982.* Theories and principles of leadership and management that provide the foundation for management of self, health care providers, multiple clients and the profession in the delivery of health care are introduced. Career paths, job seeking skills and professional responsibilities are explored. The Texas Nurse Practice Act and the ANA Standards of Practice are analyzed. Management roles within various health care settings are reviewed within the context of selected theories and research.

40982 NURSING MANAGEMENT AND LEADERSHIP: PRACTICUM. *Prerequisites: NURS 30053, 40114, 40183, 40312, 40382, 40412, 40482, 40551; concurrent: NURS 40912.* Students assume professional roles which require application of leadership principles and management skills for the provision of care to a group of clients and the management of a group of health care providers in a variety of clinical settings.

40993 ROLE TRANSITION: NURSING INTERNSHIP. *Prerequisites or concurrent: NURS 40912, 40982, 40813, 40882, 40632.* "Full-time" work week precepted internship in an inpatient clinical setting. The purpose of this capstone-nursing internship is to develop competencies and professional growth by working with a nursing professional prior to graduation. Weekly seminar with faculty and class members.

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Communication Sciences and Disorders

[B.S. Degree with a Major in Speech-Language Pathology.](#)

[B.S. in Habilitation of the Deaf and Hard of Hearing.](#)

[Requirements for a Minor in Communication Disorders.](#)

[Honors Program.](#)

[Courses of Instruction](#)

(COSD)

Available on the B.S. degree with a major in Speech-Language Pathology or Habilitation of the Deaf and Hard of Hearing (DHH).

B.S. Degree with a Major in Speech-Language Pathology. The program in Speech-Language Pathology is accredited by the Council on Academic Accreditation of the American Speech-Language-Hearing Association. A total of 124 semester hours is required: University Curriculum Requirements-47 semester hours; Speech-Language Pathology-33 semester hours; Psychology/Approved Electives-9 semester hours; Supporting Areas-9 semester hours; Electives-26 semester hours. In addition to the academic credit distribution, students must meet the following requirements:

- 1.No COSD course in which the student receives a "D" may be counted toward the major or as a prerequisite for subsequent courses.
- 2.Complete 75 hours of clinical practice, at least 1 semester of COSD 40300 and 2 semesters of COSD 50300.
- 3.TCU cumulative grade point average of at least 2.5 and a 2.5 grade point average in COSD courses before enrolling in COSD 40300.
- 4.Students must be recommended for enrollment in COSD 50300 and COSD 50350 by COSD faculty. Recommendation is based on fulfillment of expectations specified in the clinic handbook and on:
 - A. Performance in COSD coursework and
 - B. Previous clinical experience and performance.

(NOTE: This should be viewed as a preprofessional degree. Students selecting this major will need to continue studies at the graduate level in order to meet standards for licensure as a Speech-Language Pathologist and for certification by the American Speech-Language-Hearing Association.)

Suggested Courses for the Freshman Year

semester hours

FALL

COSD 10303	3
Writing Workshop	3
Laboratory Science	3
Social Science	3
Religion	3
PEAC	1
Total	16

SPRING

COSD 10343	3
Laboratory Science	3
Social Science	3
History	3
Fine Arts	3
Psychology	3
PE-H	1
Total	16

B.S. in Habilitation of the Deaf and Hard of Hearing. A total of 124 semester hours is required: University Curriculum Requirements-47 semester hours; Habilitation of the DHH-39 semester hours; Education-27 semester hours (including student teaching); Electives-11 semester hours (9 within the major). In addition to the academic credit distribution, students must meet the following requirements:

- 1.No COSD course in which the student receives a "D" may be counted toward the major or as a prerequisite for subsequent courses.
- 2.Complete 75 hours of clinical practice, at least 2 semesters of COSD 40340 and 1 semester of COSD 40350.

3. TCU cumulative grade point average of at least 2.5 and a 2.5 grade point average in COSD courses before enrolling in COSD 40340.

4. Students must be recommended for enrollment in COSD 40350 by COSD faculty. Recommendation is based on fulfillment of expectations specified in the clinic handbook and on:

- A. Performance in COSD coursework,
- B. Previous clinical experience and performance, and
- C. Fluency in sign language as judged by course instructor.

5. Students must be successfully admitted into the School of Education

Suggested Courses for the Freshman Year

semester hours

FALL

COSD 20303	3
Writing Workshop	3
Laboratory Science	3
Social Science	3
Religion	3
PEAC	1
Total	16

SPRING

Laboratory Science	3
Fine Arts	3
History 10603 or 10903	3
Math	3
Literature	3
PE-H	1
Total	16

Requirements for a Minor in Communication Disorders. A minor requires 18 hours. Two options are available: habilitation of DHH or speech-language pathology. Each requires COSD 10343 and 10303 plus 12 additional hours approved by a faculty adviser in the minor area. These 12 hours may include a 3-hour senior project relating to the student's major. The project typically occurs in the final semester of study and requires completion of the core plus six additional hours in the minor. A minimum of 6 hours must be at the 30000 level or above. No COSD course in which the student receives a "D" may be counted toward the minor or as a prerequisite for subsequent courses.

Honors Program. Communication Sciences and Disorders majors who plan to pursue Departmental Honors must be members of the University Honors Program and should enroll in COSD 30003 during their junior year and COSD 40003 during their senior year.

The following is a complete list of courses offered by this department. Go to Class Search on Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

10303 SURVEY OF COMMUNICATION DISORDERS. Survey of disorders of articulation, language, stuttering, voice and hearing.

10343 BASIC SIGN LANGUAGE. An introductory course in signing expressively and understanding basic sign language, receptively. Included is basic information on hearing loss and its effects on children and adults. Recommended for students majoring in special education and service-oriented fields.

20303 SPEECH AND HEARING SCIENCE. An introduction to acoustic and physiological aspects of the speech and hearing mechanisms.

20313 VOICE AND ARTICULATION IMPROVEMENT. Practical application of techniques for articulation, pronunciation, and efficient voice production for effective speech. Emphasis on acceptable standards of speech for students preparing for professional careers.

20323 CLINICAL METHODS IN SPEECH-LANGUAGE PATHOLOGY. *Prerequisite: 10303, 20333, and 30333; or permission of instructor.* Principles and procedures in the assessment and treatment of communication disorders.

20333 PHONETICS. Required of all majors and elective to others. Emphasis on speech perception and sound discrimination. Intensive work in transcription using the International Phonetic Alphabet.

20343 INTERMEDIATE SIGN LANGUAGE. *Prerequisite: 10343 or permission of instructor.* Further development and refinement of receptive and expressive skills in Signed English and American Sign Language. Emphasis on

vocabulary development for classroom use, ability to sign fluently, and the psycho-social aspects of deafness, including the sociolinguistics of sign language.

30303 ANATOMY AND PHYSIOLOGY OF THE SPEECH AND HEARING MECHANISMS. Structure and function of the normal mechanisms required for speech and hearing.

30323 DISORDERS OF PHONOLOGY. *Prerequisites: 10303 and 20333 or permission of instructor.* Basic principles of diagnosis and treatment for individuals with developmental or functional disorders of articulation.

30333 LANGUAGE DEVELOPMENT IN CHILDREN. Normal acquisition and development of language in children from infancy through adolescence.

30343 AURAL REHABILITATION. *Prerequisite: Permission of instructor.* Overview of management and rehabilitation of persons with hearing loss. Focus on amplification, cochlear implants, assistive devices, speech training, speech reading, auditory training and language development.

30353 TEACHING ELEMENTARY SCHOOL SUBJECTS TO DHH CHILDREN. *Prerequisite: Permission of instructor.* Curriculum materials and teaching methods for meeting specialized needs of DHH children in the learning of reading and developing concepts and relationships in arithmetic and science.

30363 AUDIOLOGY. *Prerequisite: Permission of instructor.* Basic audiometric techniques and interpretation of audiograms as related to problems of communication of persons with hearing loss.

30373 LANGUAGE DISORDERS IN CHILDREN. *Prerequisite: 30333.* Introduction to the causes, characteristics, assessment and treatment of children with language disorders.

30383 AMERICAN SIGN LANGUAGE I. *Prerequisite: COSD 10343 or permission of the instructor.* An introductory course in American Sign Language (ASL) which will introduce students to the grammatical aspects of ASL, inclusive of receptive and expressive signing skills with laboratory practice. Recommended for students in special education and service related fields of study.

30393 LANGUAGE DEVELOPMENT OF DHH. *Prerequisite: 30333, or permission of instructor.* Principles of language development as applied to DHH students; survey of principal methods in use; methods used in beginning language development with young DHH children.

30970 INDEPENDENT STUDY. *Prerequisite: Permission of instructor.* Independent study of specially designed topics not addressed in regular course offerings. (1-6 hours, 3 hrs. maximum per semester.)

40300 CLINICAL PRACTICUM IN SPEECH-LANGUAGE PATHOLOGY I. *Prerequisite: COSD 20323, 30323, 30373 and permission of instructor.* One semester is required. Supervised clinical experiences in the management of speech and language disorders.

40323 ADVANCED LANGUAGE DEVELOPMENT FOR DHH. *Prerequisite: 30393, or permission of instructor.* Language principles and usage for intermediate and advanced levels with the deaf and hard of hearing.

40333 TEACHING SPEECH TO PEOPLE WITH HEARING LOSS. *Prerequisite: 20333, 30393 or permission of instructor.* Development of spoken languages, including articulation, prosody, and voice production for children and adults with hearing loss.

40340 CLINICAL PRACTICUM IN TEACHING DHH STUDENTS I. *Prerequisite: 30393 and 40333 and permission of instructor.* A minimum of two semesters required. Observation and supervised clinical teaching of DHH children and adults in an individual setting.

40350 CLINICAL PRACTICUM IN TEACHING DHH STUDENTS II. *Prerequisite: 40340.* Students must be recommended for enrollment by COSD faculty. Observation and supervised clinical teaching of DHH students.

40383 AMERICAN SIGN LANGUAGE II. *Prerequisite: COSD 30383 or permission of the instructor.* This course is a continuation of ASL I (COSD 30383) with emphasis on deaf cultural aspects and the grammatical structure of ASL. This course utilizes extensive laboratory practices for both receptive and expressive sign productions. Recommended for students in special education and service-related fields of study.

50300 CLINICAL PRACTICUM IN SPEECH-LANGUAGE PATHOLOGY II. *Prerequisite: 40300.* Student must be recommended for enrollment by COSD faculty. A minimum of two semesters required for undergraduate students. A maximum of three semesters is allowed. Graduate students with less than 30 clinical hours will be considered for enrollment in COSD 50300. Supervised clinical experience in management of the most common speech and language disorders.

50323 COUNSELING SPECIAL POPULATIONS AND THEIR FAMILIES. *Prerequisites: Senior or graduate standing.* Theories, principles and practices in counseling special populations and their families with a focus on the communicatively impaired. Appropriate counseling strategies and techniques are explored with practical application experiences included.

50343 ADVANCED AURAL REHABILITATION. *Prerequisite: Senior or graduate standing and 30343 and 30363 or permission of instructor.* Theories of assessment and intervention in identification and aural rehabilitation of hearing-impaired and deaf children and adults. Includes methods of evaluation and training in the areas of audition, amplification, speech, language, speech-reading, assistive listening devices, cochlear implants, and communication modes and strategies.

50350 CLINICAL PRACTICUM IN AUDIOLOGY. *Prerequisite: Senior or graduate standing.* Students must be

recommended for enrollment by COSD faculty. A laboratory course in basic audiological testing techniques involving assessments and evaluation of hearing function. (1-3 hours)

50353 PSYCHOLINGUISTICS. *Prerequisite: Senior or graduate standing.* Phonetics or permission of instructor. An introduction to the history, scope, problems, and present state of the psychology of language. Includes survey of theories and methods of investigation of several disciplines concerned with the scientific studies of language.

50363 SEMINAR ON STUTTERING. *Prerequisite: Senior or graduate standing and permission of instructor.* A study of fluency development and breakdown in children and adults. Descriptions and development of speech fluency, onset and development of stuttering, characteristics of stuttering and people who stutter, and theories of stuttering are reviewed.

50373 MEDICAL ASPECTS OF SPEECH-LANGUAGE PATHOLOGY. *Prerequisite: Senior or graduate level standing in speech-language pathology or permission of instructor.* A study of the medical and biophysical bases of communication disorders and the relevant medical management of such issues as part of the total treatment program.

50383 SEMINAR ON VOICE DISORDERS. *Prerequisite: Senior or graduate standing and permission of instructor.* A study of theories, classification systems and etiologies, with emphasis on respiration, phonation, resonance and articulation factors as they relate to disorders of voice.

50970 DIRECTED STUDIES IN COMMUNICATION DISORDERS. *Prerequisite: Senior or graduate standing and permission of instructor.* Directed study focusing on specialized topics in communication sciences and disorders. (1-6 hours, 3 hrs. maximum per semester.)

Honors Courses

30003 JUNIOR HONORS SEMINAR. *Prerequisite: Junior standing and membership in the Honors Program.* Under the guidance and supervision of a faculty member, current issues in communication sciences and disorders are explored.

40003 SENIOR HONORS RESEARCH PROJECT. *Prerequisite: COSD 30003, senior standing and membership in the Honors Program.* The completion of a research project related to a current issue in normal and/or disordered communication.

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Kinesiology

[Movement Science](#)
[Physical Education](#)
[Health and Fitness](#)
[Psychosocial Kinesiology](#)
[Athletic Training](#)
[Minors](#)
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The Department of Kinesiology offers programs of study designed to provide students with the educational background necessary for the pursuit of careers in a variety of movement-based professions. The Bachelor of Science degree is offered with majors in Movement Science, Physical Education, Health and Fitness, and Psychosocial Kinesiology. In addition, the department offers minors in Movement Science and Health, and an educational program in Athletic Training that is accredited by the Commission on the Accreditation of Allied Health Education Programs. A variety of activity courses satisfying the University Core Curriculum requirement for Physical Education are also offered by the department.

The curriculum for each major academic area is comprised of three components: (1) 28 hours of Foundation courses common to all majors; (2) 12 hours of Emphasis courses specific to each major area; and (3) 23-28 hours of Associated Requirements taken outside the department that are intended to supplement the departmental courses. In addition to the major requirements, students must take UCR and elective course to accumulate a minimum of 124 hours for the Bachelor of Science degree. The department emphasizes learning experiences beyond the classroom environment. Students are required and/or encouraged to participate in research, internships, and special projects which are arranged through academic advisors.

Pass/No Credit Option. No Foundations, Emphasis, or Associated Requirements courses may be taken on a pass/no credit basis.

A. Major: Movement Science

The Movement Science option provides students with the educational background required for a variety of movement-based professions. Students who select this major often continue their education in graduate programs in Kinesiology or Physical Therapy. Students are advised to consult with their advisor as early as possible in order to coordinate elective courses with specific interests.

1. University Curriculum Requirements **47 hours.**

2. Major: Movement Science **40 hours.**

Foundations

KINE 10011 Personal Fitness
 KINE 10103 Foundations of Kinesiology
 KINE 10603 Anatomical Kinesiology
 KINE 20503 Motor Behavior
 KINE 20613 Measurement & Evaluation in Kinesiology
 KINE 30423 Motor Development
 KINE 30623 Biomechanics
 KINE 30633 Exercise Physiology
 KINE 30713 Psychology of Sport
 KINE 30803 Adapted Physical Activity

Emphasis Courses

KINE 30503 Fitness Assessment
 KINE 40103 Seminar in Kinesiology
 KINE 40903 Senior Internship
 KINE 40793 Senior Research

3. Associated Requirements **23 hours.**

CHEM 10113 Freshman Chemistry
 CHEM 10123 Freshman Chemistry
 CHEM 10122 Chemistry Laboratory
 BIOL 20204 Anatomy and Physiology
 BIOL 20214 Anatomy and Physiology
 PHYS 10153 General Physics
 PHYS 10151 Physics Laboratory
 MATH 10053 Precalculus Algebra
 MATH 10043 Elementary Statistics

4. Electives as needed to complete **124 hours.**

B. Major: Physical Education

The physical education option provides students with the educational preparation for a career in the teaching profession. Students may choose all-level or secondary certification. Secondary certification requires students to select a second teaching field and complete student teaching in both teaching areas. In order to earn a teaching certification, students must meet and comply with the requirements described in the "Teacher Education Program" section of this bulletin. Specific requirements involve criteria for admission and retention to the teacher education program, and admission to student teaching.

1. University Curriculum Requirements **47 hours.**

Major: Physical Education **40 hours.**

Foundations

KINE 10011 Personal Fitness
 KINE 10103 Foundations of Kinesiology
 KINE 10603 Anatomical Kinesiology
 KINE 20503 Motor Behavior
 KINE 20613 Measurement & Evaluation in Kinesiology
 KINE 30423 Motor Development
 KINE 30623 Biomechanics
 KINE 30633 Exercise Physiology
 KINE 30713 Psychology of Sport
 KINE 30803 Adapted Physical Activity

Emphasis Courses- All Level

KINE 20403 Physical Education for Elementary School Children
 KINE 40313 Individual and Dual Sports
 KINE 40343 Team and Group Sports
 KINE 40623 Physical Education for Secondary School Youth

Emphasis Courses- Secondary

KINE 30723 Curriculum and Program Design in Secondary Physical Education
 KINE 40313 Individual and Dual Sports
 KINE 40343 Team and Group Sports
 KINE 40623 Physical Education for Secondary School Youth

3. Associated Requirements **24 hours.**

All-Level Certification

EDUC 3013 Foundations of Education
 EDUC 30123 Educational Psychology
 ECUC 30143 Child and Adolescent Development
 EDSP 30603 Study of Exceptional Students
 EDUC 40213 Promoting Literacy in the Content Subjects
 EDSE 50013 Instructional Planning
 EDEL 40990 Student Teaching in the Elementary School (3 hours)
 EDSE 40980 Student Teaching in the Secondary School (3 hours)

Secondary Certification

EDUC 30013 Foundations of Education
 EDUC 30153 The Adolescent Learner
 EDUC 30163 The Adolescent Learner in Schools
 EDSP 30603 Study of Exceptional Children
 EDSE 50013 Instructional Planning
 EDRE 40213 Promoting Literacy in the Content Subjects
 EDSE 40980 Student Teaching in Secondary School (6 hours)

4. Electives as needed to complete **124 hours.**

C. Major: Health and Fitness

The Health and Fitness option provides students with the educational foundation required for pursuit of fitness-related careers. Students interested primarily in exercise prescription, assessment, cardiac rehabilitation, and the planning, organizing, and administration of fitness programs should select this option.

1. University Curriculum Requirements **47 hours.**

2. Major: Health and Fitness **40 hours.**

Foundations

KINE 10011 Personal Fitness
 KINE 10103 Foundations of Kinesiology

KINE 10603 Anatomical Kinesiology
 KINE 20503 Motor Behavior
 KINE 20613 Measurement & Evaluation in Kinesiology
 KINE 30423 Motor Development
 KINE 30623 Biomechanics
 KINE 30633 Exercise Physiology
 KINE 30713 Psychology of Sport
 KINE 30803 Adapted Physical Activity

Emphasis Courses

KINE 30503 Fitness Assessment
 KINE 30733 Exercise Psychology
 KINE 40503 Fitness Programming
 KINE 40903 Senior Internship

3. Associated Requirements

26 hours.

NTDT 10403 Nutrition
 NTD 30123 Nutrition Throughout the Life Cycle
 BIOL 20204 Anatomy and Physiology
 BIOL 20214 Anatomy and Physiology
 MANA 30153 Organizational Management
 HLTH 20233 Drugs and Human Health
 HLTH 30203 Health and Stress Management
 HLTH 40203 Study of Human Disease

4. Electives as needed to complete

124 hours.

D. Major: Psychosocial Kinesiology

The Psychosocial Kinesiology major provides students with the educational background required for a variety of movement-based professions such as activity leaders, coaches, and athletic academic advisors. Students who pursue this major may also continue their education in graduate programs in kinesiology, specifically sport and exercise psychology, sport sociology, and sport management.

1. University Curriculum Requirements

47 hours.

2. Major: Psychosocial Kinesiology

40 hours.

Foundations

KINE 10011 Personal Fitness
 KINE 10103 Foundations of Kinesiology
 KINE 10603 Anatomical Kinesiology
 KINE 20503 Motor Behavior
 KINE 20613 Measurement & Evaluation in Kinesiology
 KINE 30423 Motor Development
 KINE 30623 Biomechanics
 KINE 30633 Exercise Physiology
 KINE 30713 Psychology of Sport
 KINE 30803 Adapted Physical Activity

Emphasis Courses

KINE 30733 Exercise Psychology
 KINE 40103 Seminar in Kinesiology
 KINE 40903 Senior Internship
 KINE 40793 Senior Research

3. Associated Requirements

23 hours.

MATH 10043 Elementary Statistics
 PSYC 10514 Principles of Behavior
 PSYC 30041 Psychology of Group Processes
 PSYC 30343 Social Psychology
 PSYC 30363 Abnormal Psychology
 SOCI 20213 Introductory Sociology
 SOCI 30743 Men, Women and Society
 SPCO 10123 Basic Speech Communication

4. Electives as required to complete

124 hours.

E. Athletic Training

The Department of Kinesiology offers an Athletic Training Program that is certified by the Committee on Accreditation of Allied Health Programs (CAAHEP). This program is available to students majoring in the Department of Kinesiology. Admission to become a student athletic trainer is by application to the academic coordinator of the program. This individual can be contacted through the Department of Kinesiology or the training room in TCU

athletics. Successful candidates will have a strong academic record, a background in the natural sciences, and experience in athletic training during their high school years. Those who do not have previous experience in athletic training, but are judged to have potential as a student trainer, will be considered, especially if they have strong academic credentials.

Once admitted to the Athletic Training Program, students must maintain a cumulative grade point average (GPA) of at least a 2.5, and must receive no lower than a "C" in all major Foundations, Emphasis, and Associated Requirements, and all Athletic Training Program courses. Students who do not meet these requirements will be placed on probation for a semester. If after one semester they have not achieved a cumulative GPA of at least a 2.5 and/or have not replaced grades below a "C" with a "C" or better, they may be dismissed from the program, or allowed to continue for a maximum of one additional probationary semester. The latter condition will be granted only with permission from the academic coordinator of the Athletic Training Program and the chair of the Department of Kinesiology. In addition to the academic requirements, students must demonstrate satisfactory performance in the clinical progression of skills as determined by the athletic training staff. The clinical progression is specified in the Athletic Training Handbook given to each student trainer admitted to the program.

The courses listed below are those that are required specifically for athletic training. When combined with one of the majors in the Department of Kinesiology, because of the overlap in coursework, the Athletic Training Program requires only 20 to 33 hours beyond the major, depending on which of the four majors is chosen. Teacher certification may be required in order to be an athletic trainer in some public schools.

Athletic Training

48 hours.

KINE 10101 Practicum in Athletic Training I
 KINE 10201 Practicum in Athletic Training II
 KINE 20101 Practicum in Athletic Training III
 KINE 20201 Practicum in Athletic Training IV
 KINE 10603 Anatomical Kinesiology
 KINE 20303 Prevention and Care of Athletic Injuries
 KINE 30303 Physical Examination of the Extremities
 KINE 30623 Biomechanics
 KINE 30633 Exercise Physiology
 KINE 30713 Psychology of Sport
 KINE 30803 Adapted Physical Activity
 KINE 40303 Advanced Athletic Training
 KINE 40523 Therapeutic Modalities
 KINE 40533 Therapeutic Exercise
 HLTH 20203 Health and Wellness Concepts
 NTDT 10403 Basic Nutrition
 BIOL 20204 Anatomy and Physiology
 BIOL 20214 Anatomy and Physiology

F. Minors

The Department of Kinesiology offers academic minors in Movement Science and Health.

1. Minor: Movement Science

18 hours.

KINE 10603 Anatomical Kinesiology
 KINE 20503 Motor Behavior
 KINE 30423 Motor Development
 KINE 30623 Biomechanics
 KINE 30633 Exercise Physiology

Choose one of the following:

KINE 30713 Psychology of Sport
 KINE 30503 Fitness Assessment
 KINE 30803 Adapted Physical Activity

2. Minor: Health

18 hours.

HLTH 20203 Health and Wellness Concepts
 HLTH 20233 Drugs and Human Health
 HLTH 30203 Health and Stress Management
 HLTH 30213 Health Aspects of Human Sexuality
 HLTH 40203 Study of Human Disease

Choose one of the following:

HLTH 30633 Exercise Physiology
 NTDT 10403 Nutrition
 NURS 30023 Cultural and Ethical Aspects of Health Care
 NURS 40303 Critical Inquiry into Health Care Delivery
 SOWO 20833 Introduction to Social Work

The following is a complete list of courses offered by this department. Go to Class Search on Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

Kinesiology Courses

KINE 10011 Personal Fitness. Principles, concepts, and components of physical fitness. Emphasis on design and practical implementation of individualized fitness program.

KINE 10101 Practicum in Athletic Training I. An introduction to the basic functioning of an athletic training facility to include basic administration and treatment of patients.

KINE 10103 Foundations of Kinesiology. An overview of the philosophical and historical perspectives of the academic discipline of Kinesiology. Current trends and topics are discussed to acquaint students with career opportunities in the various subspecialties within Kinesiology.

KINE 10201 Practicum in Athletic Training II. An introduction to use and design of athletic equipment and sportswear with special emphasis on emergency procedures and modalities for treatment of athletic injuries.

KINE 10433 Sports in America: A Socio-cultural Perspective. This freshman seminar course provides students with a forum to explore the influences of sport in American society. Students learn to formulate opinions on main topics as a result of readings, direct observation, and class discussion. Students then defend their opinions and ideas in written assignments, or during class discussions.

KINE 10603 Anatomical Kinesiology. A study of the gross structure of the human body with an emphasis on the relationship of anatomy to the study of physical activity, physical fitness, sport and exercise.

KINE 20101 Practicum in Athletic Training III. Supervised practice of clinical assessment skills for posture, gait, conditions and injuries of the physically active individual.

KINE 20201 Practicum in Athletic Training IV. Clinical assessment of general medical conditions and disabilities of athletes and other physically active individuals.

KINE 20303 Prevention and Care of Athletic Injuries. Prerequisite: KINE 10603. Study of recognition, prevention, reconditioning, and referral of athletic injuries.

KINE 20403 Physical Education for Elementary School Children. *Prerequisite for Kinesiology majors only: KINE 10103.* Presentation of various teaching strategies, procedures, classroom management, and evaluation techniques in order to meet goals and objectives of elementary physical education programs.

KINE 20412 First Aid: Responding to Emergencies. Theory and practice of first aid and accident prevention techniques as well as CPR instruction. Standard Red Cross certificate issued on successful completion of course and practical evaluation.

KINE 20503 Motor Behavior. Prerequisite: *KINE 10603 or consent of instructor.* Investigation of current theories of motor control, motor learning, and their relationship to the acquisition of motor skill.

KINE 20613 Measurement and Evaluation. Introduction to basic measurement and evaluation concepts and processes in Kinesiology and health.

KINE 20802 Coaching of Basketball. Theory and techniques relative to the skill and playing strategies in the sport of basketball.

KINE 20812 Coaching of Track and Field. Theory and techniques relative to the skill and playing strategies of the sport track and field.

KINE 20822 Coaching of Volleyball and Softball. Theory and techniques relative to the skill and playing strategies of the sports volleyball and softball.

KINE 20832 Coaching of Football. Theory and techniques relative to the skill and playing strategies of the sport of football.

KINE 20842 Coaching of Baseball. Theory and techniques relative to the skill and playing strategies of the sport of baseball.

KINE 30423 Motor Development. *Prerequisite: KINE 10603 or consent of instructor. Kinesiology majors only: KINE 10103* An examination of human motor behavior from birth to adulthood. Emphasis placed on the development of fundamental skills and their effect on future motor performance.

KINE 30303 Physical Examination of the Extremities. *Prerequisite: KINE 10603 or consent of instructor.* Critical examination of the principles and applications of various examination techniques for athletic related injuries of the extremities.

KINE 30503 Fitness Assessment. *Prerequisite: KINE 10603 or consent of instructor.* Practical experience in aspects of physical fitness and prescription. Students receive hands on experience in areas of testing required for ACSM health/fitness instructor certification.

KINE 30623 Biomechanics. *Prerequisite: KINE 10603 or consent of instructor. Kinesiology majors only: KINE 10103.* Mechanical foundation and analysis of human movement. Emphasis is placed on the concepts of linear and angular kinetics to include forces and torques that act on the human body during movement.

KINE 30633 Exercise Physiology. *Prerequisite: KINE 10603 or consent of instructor. Kinesiology majors only: KINE 10103* Physiological responses of the systems of the human body to acute and chronic exercise. Emphasis is on the processes and mechanisms responsible for such responses.

KINE 30713 Psychology of Sport. *Prerequisite: PSYC 10203, PSYC 10514, or consent of instructor. Prerequisite for Kinesiology majors only: KINE 10103.* Selected theories and practical applications germane to the understanding of psychological aspects of human behavior in sport settings.

KINE 30723: Curriculum and Program Design in Secondary Physical Education. *Prerequisite for Kinesiology Majors: KINE 10103.* The development of goals, objectives, and scope of secondary physical education. Emphasis is placed on the systematic process of designing and evaluating curriculum in secondary schools.

KINE 30733: Exercise Psychology. *Prerequisite: PSYC 10203, PSYC 10514, or consent of instructor. Prerequisite for Kinesiology majors only: KINE 10103.* Selected theories and practical applications germane to the understanding of psychological aspects of human behavior in exercise settings.

KINE 30803 Adapted Physical Activity. *Prerequisite: KINE 10603 or consent of instructor. Kinesiology majors only: KINE 10103.* An overview of common disabilities and the relationship to appropriate physical activity experiences. Stress is placed on learning how to develop and adapt programs for individuals with disabilities in fitness, recreation, and school physical activity settings.

KINE 40103 Seminar in Kinesiology *Prerequisite: Consent of instructor.* An examination of current issues in the field of Kinesiology. Emphasis is on a critical examination of research processes, and the application of research findings relevant to disciplines within Kinesiology.

KINE 40303 Advanced Athletic Training. *Prerequisite: KINE 20303. Kinesiology majors only: KINE 10103.* Study of advanced theories, techniques, and application of skill relative to athletic injury care and rehabilitation.

KINE 40313 Individual and Dual Sports. *Prerequisite for Kinesiology majors only: KINE 10103.* The development of knowledge, skill and play relative to selected individual and dual sports and activities in the field of Physical Education and recreation. Focuses on phases of skill development and teaching progression.

KINE 40343 Team and Group Sports. *Prerequisite for Kinesiology majors only: KINE 10103.* The development of knowledge, skill, and play relative to selected team and group sports and activities in the field of Physical Education and Recreation. Focuses on various phases of skill development and teaching progression.

KINE 40503 Fitness Programming. *Prerequisites: KINE 10603 and KINE 30503 or consent of instructor. Kinesiology majors only: KINE 10103* Theoretical and practical applications of exercise assessment and exercise prescription in commercial fitness, community fitness, and cardiac rehabilitation.

KINE 40523 Therapeutic Modalities. *Prerequisite: KINE 20303. Kinesiology majors only: KINE 10103.* Critical examination of concepts and applications of therapeutic modalities and rehabilitative techniques regarding athletic injury.

KINE 40533 Therapeutic Exercise *Prerequisite: KINE 20303. Kinesiology majors only: KINE 10103.* An upper level implementation of therapeutic exercise and rehabilitation techniques for the treatment of athletic injuries. Practical application of anatomy and physiology will provide for acquisition of clinical skills.

KINE 40623 Physical Education for Secondary School Youth. *Prerequisite for Kinesiology majors only: KINE 10103.* Examination of scope and value of Physical Education in the secondary schools. Factors essential to curriculum planning and instruction included. On-site clinical experiences.

KINE 40700 Practicum in Adapted Physical Activity. *Prerequisite for Kinesiology majors only: KINE 10103.* This course will provide hands-on teaching opportunities at schools servicing a variety of individuals with disabilities. Students will participate in the planning and implementation of appropriate physical activity programs. On-site clinical experiences.

KINE 40760 Practicum in Kinesiology. *Prerequisite: Senior standing and consent of department. Kinesiology majors only: KINE 10103.* Practical experience in an area of Kinesiology (1-3 sem hours).

KINE 40780 Special Problems in Kinesiology. *Prerequisite: Senior standing and consent of department. Kinesiology majors only: KINE 10103.* Individual study involving research or other scholarly work in Kinesiology under the direction of a faculty member (1-3 sem hours).

KINE 40790 Senior Research in Kinesiology. *Prerequisite: Senior standing and consent of department.* Students work with individual faculty on a research project in an area of interest. The project involves formation of hypotheses, collection of data, and data analysis and interpretation.

KINE 40903 Senior Internship . *Prerequisite: Senior standing and consent of department.* Internship for the movement based professions. Students work with local professionals in an area related to their career interest.

Health Courses

HLTH 10603 Anatomical Kinesiology. Cross listed with KINE 10603.

HLTH 20203 Health and Wellness Concepts. A survey course designed to study basic health concepts and information relative to general areas of health. Relation of these concepts to personal lifestyles and healthy decisions.

HLTH 20233 Drugs and Human Health. The use and abuse of drugs in American contemporary society. Emphasis on the physiological, psychological, and sociological effects of drug abuse on personal and community health.

HLTH 20613 Measurement and Evaluation. Cross listed with KINE 20613

HLTH 30203 Health and Stress Management. A study of physiological, psychological, and sociological aspects of stress as related to overall health. Responses such as anger, fear, and depression with their underlying mechanisms in states of health and disease will be examined. Emphasis is on identification of stressors and methods of prevention and coping with them.

HLTH 30213 Health Aspects of Human Sexuality. Sexuality as a normal aspect of life and as a source of creative energy. Study of physical, mental, emotional, social, and psychological phases of human sexuality as they are affected by male and female relationships.

HLTH 30633 Exercise Physiology. Cross listed with KINE 30633.

HLTH 40203 Study of Human Disease. An overview of the processes in human disease. The etiology, symptoms, treatment, and preventive measures of various diseases. Concepts of wellness are discussed.

HLTH 40213 Instructional Strategies in Health Education. Selection and application of teaching methods, materials and content, action-oriented classroom strategies and resources appropriate for Health Education at the various educational levels.

HLTH 40770 Special Problems in Health Education. Prerequisite: Senior standing and consent of instructor. Individual study involving research or other scholarly work in Health Education under the direction of a faculty member (1-3 sem hours).

Physical Activity Courses

General Information

1. General University requirement is 1 semester hour.
2. A student may elect to take up to 8 semester hours of physical activity classes for credit.
3. The purpose of these courses is to provide the student an opportunity to acquire basic skills, knowledge, strategies, and individualized instruction in a variety of physical activity based settings.
4. Students are encouraged not to repeat the same activity course for credit.
5. PEAC courses are Pass/No Credit.

Varsity Athletics

PEAC 10101 Football

PEAC 10111 Track and Cross Country

PEAC 10121 Golf

PEAC 10131 Tennis

PEAC 10141 Basketball

PEAC 10151 Baseball

PEAC 10161 Swimming and Diving

PEAC 10171 Gymnastics (Cheerleaders)

PEAC 10181 Soccer

PEAC 10191 Volleyball

Combatives

PEAC 10231 PERSONAL DEFENSE. Techniques and theories of basic personal defense skills.

PEAC 10261 KARATE. An introduction to the skills, techniques, strategies and conditioning of Karate.

Team Sports

PEAC 10301 FLAG FOOTBALL. Fundamental skills, techniques and strategies of flag football.

PEAC 10311 SOFTBALL. Fundamental skills, techniques and strategies of softball.

PEAC 10331 SOCCER. Fundamental skills, techniques and strategies of soccer.

PEAC 10341 BASKETBALL. Fundamental skills, techniques and strategies of basketball.

Physical Fitness

PEAC 10411 BODY CONDITIONING. Fundamental principles of exercise, individualized programs with lifetime fitness goals and fitness related activities.

PEAC 10421 WEIGHT TRAINING. Basic weight training techniques, personalized workout programs, and concepts and knowledge related to the development of individualized programs.

PEAC 10482 CYCLING. Equipment selection, safety, riding techniques and training programs associated with biking.

PEAC 10491 JOGGING. Techniques, principles and practice in jogging.

Dance

PEAC 10521 AEROBIC DANCE. Aerobic conditioning rhythmic workouts, with emphasis on fitness and cardiovascular conditioning while performing directed and individual routines.

PEAC 10531 MODERN DANCE. Techniques of modern dance with emphasis on fundamentals of movement, body technique, space and rhythm.

PEAC 10581 BALLET. Basic theory, skills and technique of beginning ballet for the non-dance major.

Aquatics

PEAC 10601 BEGINNING SWIMMING. Emphasis on stroke development and water safety designed for the non-swimmer.

PEAC 10611 INTERMEDIATE SWIMMING. Individual stroke development, conditioning and water safety. American Red Cross standards maintained with emphasis on improving swimming skills.

PEAC 10621 ADVANCED LIFESAVING AND CPR. Knowledge and skill development in accordance with American Red Cross standards. CPR involves various emergency first aid procedures. Lifesaving and CPR test and certification for those meeting required standards.

PEAC 10631 WATER SAFETY INSTRUCTOR'S COURSE. Lifesaving skills as well as a training program for students who want to teach swimming. Prerequisite: Current Red Cross Advance Lifesaving Certificate and strong execution of swimming skills.

PEAC 10651 SCUBA DIVING. Skill and safety instruction for underwater swimming and snorkeling. Equipment safety, rules of diving, skills and recreational benefits. Certification available.

PEAC 10671 WATER POLO. Fundamental skills, rules and offensive tactics of water polo. Conditioning and game situations.

PEAC 10691 SWIMMING CONDITIONING. Physical conditioning through aquatic activities. Concepts of swim conditioning and endurance as well as stroke improvement.

Racquet and Recreational Sports

PEAC 10711 BADMINTON. Skill, techniques of play and competitive strategies of badminton. Singles and doubles play.

PEAC 10721 RACQUETBALL. Fundamental skills, rules, basic shots, game strategies, equipment and safety of racquetball.

PEAC 10731 ADVANCED RACQUETBALL. Continuation of racquetball. *Prerequisite: PEAC 10721 or equivalent experience.*

PEAC 10741 BEGINNING TENNIS. Fundamental skills, basic strokes, rules, strategies and game play of tennis.

PEAC 10751 INTERMEDIATE TENNIS. Review of basic tennis skills as well as development advanced strokes, strategies and game play in both singles and doubles. *Prerequisite: PEAC 10741 or equivalent experience.*

PEAC 10761 ADVANCED TENNIS. Refinement of advanced techniques and strategies of tennis. *Prerequisite: PEAC 10751 or equivalent experience.*

PEAC 10771 BEGINNING GOLF. Fundamental skills of swing, stance, and basic club use, putting and practice in course play.

PEAC 10781 ADVANCED GOLF. Emphasis will be on skill and stroke improvement with individual assistance in game play.

PEAC 10801 FUNDAMENTALS OF BOWLING. Basic skills rules and strategies of bowling.

PEAC 20031 TEAM SPORTS. Fundamental knowledge and the development of skills associated with selected team sports.

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Social Work

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(SOWO)

The TCU Department of Social Work does not discriminate on the basis of age, gender, race, color, ethnicity, national origin, handicap, veteran status, political beliefs, or sexual orientation.

Social Work is available as a major on the B.S. in Social Work (B.S.S.W.) degree. It is also available as a double major on the B.S. degree and as a minor on most degrees.

Social work is one of the human service professions. It helps individuals, groups or communities solve or relieve life problems using a variety of professional skills. The social work educational program integrates liberal arts education with preparation for professional practice. The primary objective of the department is to prepare students as generalists for entry to the beginning level of social work practice. An additional objective is to prepare students for admission to graduate schools of social work (eligible for advanced standing in most masters degree programs).

The curriculum includes content in Social Welfare Policy and Services; Human Behavior and the Social Environment; Social Work Practice; Research; and Field Education. It focuses on values and ethics, populations at risk and diversity. Concurrent with their academic work, students are provided two types of field experience: a semester of supervised volunteer service in a health, educational or social service agency and, during the senior year, two consecutive semesters of field education in a public or private social agency selected in accord with the students area of social work interest and educational needs.

The Carolan Social Work Learning/Resource Center where most social work classes are held is a specialized classroom with audiovisual capability.

Accreditation. The Department of Social Work and the social work major (not the minor) are fully accredited at the baccalaureate level by the Council on Social Work Education (C.S.W.E.)

Admission to department and field education. Students may declare the social work major at any time. Admission to the department and field education requires that students have attained junior status; have a 2.25 or higher overall GPA; complete a minimum of 9 hours of social work courses including 20813 and 20833, have a 2.5 GPA in social work and have a C or better in all social work courses (SOWO); make written application and receive faculty approval based on the application and a student-faculty conference (Junior Evaluation) to evaluate readiness for field education. Field Education may be postponed or denied if the faculty find the student insufficiently prepared or lacking required knowledge, skills, or values.

Honors Program. Social Work majors who plan Departmental Honors must be members of the Honors Program and should enroll in SOWO 30003 during their junior year and SOWO 40003 during the fall semester of their senior year.

Honor Society. The department sponsors the Iota Xi chapter of Phi Alpha, the national Social Work Honor Society. Membership is open to students who achieve a 3.0 overall GPA and a 3.25 GPA in social work.

Interdisciplinary Studies. Students may undertake an interdisciplinary program with a double major in Social Work and another field, even when different degrees are involved (e.g., B.A. and B.S.). Programs such as Social Work and Religion Studies, Social Work and Psychology, and others require faculty advisers in both fields to coordinate course and degree planning.

Licensing. Students are eligible to be licensed as social workers in Texas upon graduation. Licensing is generally transferable to other states. All students will sit for the Texas State licensing examination prior to graduation.

NASW/TCU. This professional organization exists for student sociability, information sharing, and carrying out service projects of interest to members.

Pass/No Credit Option. All courses in the major (SOWO) must be taken on letter grade system unless specifically noted as Pass/No Credit. Other courses including those in a minor may be taken Pass/No Credit.

Study Abroad Policy. Students are encouraged to study abroad. The Department of Social Work requires that students take SOWO 30883 in the spring semester at TCU, so students need to schedule study abroad accordingly.

Transfer Credit Policy. Most UCR and related coursework from accredited universities will transfer. Social work courses from CSWE accredited social work programs will be accepted toward the social work degree. However, practice courses (SOWO 30883, 30893, 40893) must be taken at TCU. If taken at another school, practice

courses will transfer as electives.

Requirements for the B.S. in Social Work degree total 124 semester hours and include:

Six hours of human biology chosen from the following (some courses may apply to the UCR): BIOL 10103-10113; or BIOL 10213; BIOL 10514-10524; BIOL 20204-20214; BIOL 30463; PSYC 10514-10524; PSYC 30403; PSYC 30414; PSYC 30423; PSYC 30433; PSYC 30463; PSYC 30483; KINE 10603; KINE 20503.

Three hours of statistics: MATH 10043 (may be applied to the UCR).

Foundation Courses, 12 semester hours including:

SOCI 20213 Introduction to Sociology **or** SOCI 20223 Social Problems
ANTH 20623 Introductory Cultural Anthropology **or** SOCI 30443 American Minority Groups
SOWO 20813 Volunteer Placement
SOWO 20833 Introduction to Social Work

Social Work Courses, 42 semester hours:

SOWO 30843 Human Behavior and the Social Environment I
SOWO 30853 Human Behavior and the Social Environment II
SOWO 30863 Issues in Social Welfare Policy
SOWO 30873 Issues in Diversity
SOWO 30883 Generalist Practice with Individuals
SOWO 30893 Generalist Practice with Communities
SOWO 40813 Research Methods in Social Work
SOWO 40893 Generalist Practice with Groups
SOWO 40862 Field Education Seminar I
SOWO 40872 Field Education Seminar II
SOWO 40884 Field Education I
SOWO 40894 Field Education II

and 6 hours chosen from SOWO electives

Associated Requirements. Students must take a minimum of 12 upper division hours in consultation with advisors. The following options are available.

Option I: A minor or second major

Option II: 12 hours chosen from no more than two disciplines (including 6 hours of Honors Colloquia)

Option III: An area of professional concentration documented by the advisor (e.g. aging, adolescence, political science, health)

Electives:

SOWO 30513 Professional Communication for the Human Services
SOWO 30523 Addictions
SOWO 30533 Professional Intervention in the Criminal Justice System
SOWO 30553 Social Work with Adolescents
SOWO 30573 Child Welfare
SOWO 30580 International Study in Social Work
SOWO 40510 Directed Study in Social Work
SOWO 40520 Contemporary Topics in Social Work
SOWO 40523 Law and Social Work
SOWO 40533 Generalist Practice with Families

A minor in Social Work requires 18 hours of Social Work courses including 20833; 30863; and 30843 or 30853. Additional courses are to be selected from the Social Work curriculum excluding 40862, 40872, 40884 and 40894.

The following is a complete list of courses offered by this department. Go to Class Search on Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

SOWO 20813 VOLUNTEER PLACEMENT. To be taken prior to 30883. For three hours per week (minimum), established on an individually arranged schedule, students provide a helping service in a designated human service agency (e.g., nursing home, mental health clinic, childrens' facility, etc.) to test interest in social work and to learn about what it means to be a helping person. A concurrent seminar is held to help students review and process this experience. (No credit is given for previous life experience.)

SOWO 20833 INTRODUCTION TO SOCIAL WORK. Introduces students to the social welfare system through the social work profession including social work's historical development and process of professionalization. Discusses the knowledge, value, and skill components of social work practice, the variety of practice settings, and the types of client populations served.

SOWO 30003 HONORS TUTORIAL IN SOCIAL WORK. An examination of an issue affecting the social work profession or a field or method of social work practice determined in consultation with an instructor. This course is offered on an independent study basis and this must be arranged prior to the semester enrolled.

SOWO 30513 PROFESSIONAL COMMUNICATION FOR THE HUMAN SERVICES. *Prerequisites: SOWO 20833* or permission of the instructor. Developing effective communication as a professional helping person is the goal of this course. Emphasis is on writing skills necessary in professional practice although oral communication also is stressed. The course requires written exercises submitted for review and rewritten to reflect ongoing professional development.

SOWO 30523 ADDICTIONS. Definitions and various forms of addiction; biological, psychological, social and family changes resulting from addiction; and intervention strategies. Emphasis is on how social workers use this information to address the problems of addiction through social work intervention with clients.

SOWO 30533 COUNSELING SKILLS AND CRISIS INTERVENTION IN THE CRIMINAL JUSTICE SYSTEM. (CRJU 30533) Theories and methods of professional intervention with clients with emphasis on those in the Criminal Justice system. Focus is on the development of skills that can be applied to individuals, families, and groups in community-based or institutional settings. The course is primarily for Criminal Justice majors and Social Work minors.

SOWO 30553 SOCIAL WORK WITH ADOLESCENTS. *Prerequisite: SOWO 20833 or permission of instructor.* The problems and stresses of biological, psychological and social changes affecting adolescents are discussed. Emphasis is on how social workers use this information to address the problems of adolescent clients through intervention.

SOWO 30573 CHILD WELFARE. *Prerequisite: SOWO 20833.* The social welfare system as it affects children in American society. The historical development of the system, the existing structure and the processes through which present policies have been established. Child welfare agencies and programs, principles and policies on which childrens services are based, social and legislative issues relevant to children and childrens programs, and specific techniques for working with children.

SOWO 30580 INTERNATIONAL STUDY IN SOCIAL WORK . Provides the opportunity for students to study the language, culture and social service delivery system of Mexico or other countries. Students participate in Language Centers or Summer Courses at local Universities.

SOWO 30843 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I. *Prerequisite: SOWO 20833 or permission of instructor.* Theories of human development and functioning within societal and family contexts. The life cycle of the individual from conception to adulthood. Theories of diversity and problem behavior. Effects of ethnicity, gender, ability, sexual orientation, lifestyle, socioeconomic status, age marginality and oppression on human development and social functioning.

SOWO 30853 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II. *Prerequisite: SOWO 20833 or permission of instructor.* Theories of human development and functioning within societal and family contexts. The life cycle of the individual from adulthood to old age. Theories of diversity and problem behavior. Effects of ethnicity, gender, ability, sexual orientation, lifestyle, socioeconomic status, age, marginality and oppression on human development and social functioning.

SOWO 30863 ISSUES IN SOCIAL WELFARE POLICY. *Prerequisite: SOWO 20833.* The historical development of social welfare policies in the U.S. Major legislative enactments which established the existing welfare structure. Social, economic, and political factors influencing the development of policy. Analysis of social welfare issues currently facing the U.S.

SOWO 30873 ISSUES IN DIVERSITY. Focus of course is to help students distinguish between myth and reality about cultural, ethnic, gender, sexual orientation, age and ability differences by thinking critically about diversity. Applications to American and global societies are made and experiential content is stressed.

SOWO 30883 GENERALIST PRACTICE WITH INDIVIDUALS. *Prerequisites: SOWO 20813, 20833, and 30863 or permission of the instructor.* Knowledge, skills and value base used in the generalist practice of social work. Ecological approach using concepts, principles, and system perspectives applicable to a range of problem-solving situations requiring social work intervention. Individual, group and community interventive methods are presented. Study of case material and role playing exercises. Must be taken in the spring semester immediately prior to enrollment in SOWO 40884: Field Education I. If students postpone Field Education I, they are required to audit SOWO 30883 prior to entrance into the internship.

SOWO 30893 GENERALIST PRACTICE WITH COMMUNITIES. *Prerequisites: SOWO 20833, 30863.* That practice aspect of social work concerned with the organization, planning and administration of social work services (as distinguished from provision of services directly to clients), and with the analysis and evaluation of policy and practice within the profession.

SOWO 40003 SENIOR HONORS RESEARCH PROJECT. Offered fall only. A supervised research experience typically based on the subject matter studied in SOWO 30003. The course is offered on a directed study basis and this must be arranged prior to the semester enrolled.

SOWO 40510 DIRECTED STUDY IN SOCIAL WORK (1-6 credit hours). Designed for students who undertake readings or projects in social work in consultation with an instructor. Offered on a Pass/No Credit basis only.

SOWO 40520 CONTEMPORARY TOPICS IN SOCIAL WORK. Topics of current interest in social work. Possibilities include Crisis Intervention, Ethics, Death and Dying, Suicide, Discrimination, Play Therapy, Intervention Techniques, AIDS, and Social Work with Special Client Populations.

SOWO 40523 LAW AND SOCIAL WORK. Aspects of law relevant to social work practice: family relationships, legal offenders, the mentally ill, consumer protection, what constitutes negligence and malpractice by the social worker, law and ethics of confidentiality, collaboration with the legal profession and related issues.

SOWO 40533 GENERALIST PRACTICE WITH FAMILIES. *Prerequisite: SOWO 30883, or permission of the instructor.* The family as a system for social work intervention. Family forms, theories of family interaction, models of family intervention, and interventive skills are considered.

SOWO 40813 RESEARCH METHODS IN SOCIAL WORK *Must be taken concurrently with SOWO 40884.* Examines research methods to help students understand how social workers conduct research and how they use and evaluate research findings. Applications to practice are made and focus is on evaluating practice and assessing the effectiveness of programs. Students are taught to do research and to be consumers of research.

SOWO 40862 FIELD EDUCATION SEMINAR I. Weekly university-based seminar which helps students integrate class and field learning. Meets concurrently with SOWO 40884: Field Education I and may not be taken separately. Credit will not be awarded in SOWO 40884 or 40862 unless a grade of C or better is received in both courses.

SOWO 40872 FIELD EDUCATION SEMINAR II. Weekly university-based seminar which helps students integrate class and field learning. Meets concurrently with SOWO 40894; Field Education II and may not be taken separately. Credit will not be awarded in SOWO 40894 or 40872 unless a grade of C or better is received in both courses.

SOWO 40884 FIELD EDUCATION I. *Prerequisites: SOWO 20813, 20833, 30843, 30853 and 30883, 2.25 GPA; 2.5 GPA in social work; faculty approval.* Supervised field learning within a social work agency, providing the student an opportunity to learn the structure, function and policies of social work agencies and to apply his or her social work knowledge to the development of skills in human service delivery. The student will spend 16 hours per week for 15 weeks in an assigned agency (240 hours). Must be taken concurrently with SOWO 40862. Credit will not be awarded in SOWO 40884 or 40862 unless a grade of C or better is received in both.

SOWO 40893 GENERALIST PRACTICE WITH GROUPS. *Prerequisite: SOWO 30883 or permission of the instructor.* A study of the methods, skills, and value base used in the practice of social work with groups. Concepts and principles applicable to a range of groups situations requiring social work intervention to deepen understanding of the interventive process. Further study of case material and role playing exercises.

SOWO 40894 FIELD EDUCATION II. *Prerequisites: SOWO 40884, 40862; 2.5 GPA; 2.5 GPA in social work.* A continuation of SOWO 40884: Field Education I that helps extend and deepen, under professional guidance, the development of practice skills with clients. The student will spend 16 hours per week for 15 weeks in an assigned agency (240 hours). Must be taken concurrently with SOWO 40872. Credit will not be awarded in SOWO 40894 or 40872 unless a grade of C or better is received in both courses.

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AddRan College of Humanities & Social Sciences

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The University was founded as AddRan Male and Female College, and its largest and most central academic unit continues to carry the distinctive name which Addison and Randolph Clark devised for their school.

AddRan College also continues TCU's well-developed tradition of emphasis on the liberal arts. The college's faculty and programs can provide a sound foundation for a lifetime of intellectual growth. Courses in the humanities and social sciences form a major part of the core studies of all University students, and concentrated effort in one AddRan area can provide the base for future personal and career choices.

Degree programs within AddRan vary widely. Some provide the solid liberal arts base needed for professional study toward the ministry, law, medicine, business, teaching, and related fields. Some have a professional orientation within themselves, with specialized study leading toward specific career objectives.

In all of the programs, students will find flexibility and freedom balanced by structure and discipline.

AddRan's academic advisement system is part of its intent to help individual students meet their educational needs. Faculty members in each academic program serve as advisers. Students are expected to meet with their advisers at least once each semester as they plan studies for the next term, and appointments are encouraged at other times when students feel the need to discuss their academic options. Names of advisers are available at the departments concerned. Pre-majors are advised through the Center for Academic Services.

Organization

AddRan College is organized into ten departments, two interdepartmental programs, two units of Reserve Officers' Training Corps, and one academic service unit.

Departments:

Design, Merchandising, and Textiles
Economics
English
History
Modern Languages and Literatures
Philosophy
Political Science
Religion
Sociology and Criminal Justice
Spanish and Latin American Studies

Interdepartmental programs:

Latin American Studies
Liberal Studies

Cooperative programs:

Master's in Education (3-2 program
With School of Education)
Master of Business Administration (3-2 program
with M.J. Neeley School of Business)

Reserve Officers' Training Corps:

Aerospace Studies, Air Force ROTC
Military Science, Army ROTC

Academic Service Unit:

English Language Center

Residence Study Abroad:

TCU Fashions, Foods, Furnishings and Cultural Tour of Europe.
TCU Summer Study Tours in Europe.
TCU Summer Study Courses in Religion and Art in Florence and Rome, Italy, in England; and Church History in Germany.

Administrative offices for AddRan College are on the first floor of Dave Reed Hall. Reed Hall also houses departmental offices of English, History, Modern Languages, Philosophy, and Spanish and Latin American Studies. Political Science is in M. E. Sadler Hall. Sociology and Criminal Justice is in the Sociology Bldg. Design, Merchandising, and Textiles is in the Annie Richardson Bass Building. Religion is in Theodore Beasley Hall. Economics is in the

Economics and Social Work Building.

Degree Programs

AddRan College administers programs which lead to the following baccalaureate degrees:

The Bachelor of Arts degree with majors in the following fields:

Economics
English
French
History
Latin American Studies
Liberal Studies
Philosophy
Political Science
Religion
Sociology
Spanish

The Bachelor of Science degree with majors in the following fields:

Economics
Fashion Promotion
Fashion Merchandising
Interior Design
Liberal Studies
Political Science

Professions program

The Bachelor of Science in Criminal Justice degree.

Approved Minors

Asian Studies
Anthropology
British and Colonial/Post-Colonial Studies
Classical Studies
Criminal Justice
Economics
English
Fashion
French
Geography
German
History
Interior Design
Japanese
Latin American Studies
Lighting for Visual Presentation
Philosophy
Political Science
Religion
Spanish
Social Work
Sociology
Women's Studies

In addition, minors are accepted from the other colleges and schools at TCU. However, minors are accepted from the School of Education only if the student is seeking Teacher Certification in that field.

The Bachelor of Arts Degree

Students pursuing a program leading to a Bachelor of Arts degree must complete a minimum of 124 semester hours, 42 of which must be advanced (30000 level or above) from TCU, with a major and a minor selected from the approved list of majors and minors below. The specific number of hours required for the major and minor may be found in the appropriate section of the Bulletin.

A maximum of 36 semester hours in any one subject field may be counted toward the 124-semester-hour minimum required for the Bachelor of Arts degree. English 10803 or 10833 and English 20803 are excluded from the 36-semester-hour maximum for students majoring in English.

In addition, students must complete the following UCR for the Bachelor of Arts degree:

I. Foundations: 9 credit hours

The Foundations requirements, which include courses to refine and enhance skills in critical reading, written composition, and mathematics, allow students beginning the undergraduate curriculum to increase their proficiency in these essential skills.

A. The Writing Requirement-6 credit hours, and the Writing Emphasis Experience.

1. Writing Workshop-6 credit hours

This requirement is to be met by courses designated "Writing Workshop," with no more than 3 of these hours in freshman-level study. Writing Workshop courses assume the student's successful completion of four units of high school English.

This requirement is to be met by at least one course in various modes of composition, including analytical writing and research techniques and writing. Both writing courses are to include a reading component providing composition models of suitable kinds. Student writing in these courses is expected to increase competence in grammar, mechanics, and other conventions customary in written discourse.

AP or CLEP credit may satisfy up to 6 hours of the writing requirement.

2. Writing Emphasis Experience

To allow juniors and seniors to increase their writing skills, the University Curriculum includes a writing emphasis component.

This requirement, which ordinarily should not increase the credit hours required by the University Curriculum, is to be satisfied by two upper-division courses (3 credit hours for each) with a "writing emphasis" designation. Because any academic unit of the University may offer courses with a writing emphasis, courses satisfying other baccalaureate degree requirements may also meet the writing emphasis requirement of the University Curriculum. Writing should occur throughout the course and total a minimum of 2,500 words.

B. Mathematics-3 credit hours

This requirement is to be satisfied by Department of Mathematics courses at or above the freshman level. Appropriate courses assume the student's successful completion of 3 units of high school mathematics: two in algebra and one in geometry.

AP or CLEP credit may satisfy this requirement.

II. Explorations: 42 credit hours

The Explorations requirements assure that all baccalaureate candidates encounter certain broad areas of knowledge. Through this experience, the student will gain knowledge and perspectives by studying various domains of human knowledge and experience.

The Explorations requirements allow no more than 6 credit hours from courses in a single department or in that department's cross-listed courses. This limitation applies regardless of the UCR groups in which the department's course offerings appear. Approved integrative courses are excluded from this restriction.

Satisfactory fulfillment of the Explorations section requires completion of 42 credit hours. AddRan students are required to choose a course which exposes them to a non-U.S. cultural perspective as they fulfill the requirements of this section.

A. Physical and Life Sciences-9 credit hours (NOTE: Courses in mathematics and computer science do not satisfy this requirement.)

Six (6) credit hours must be in laboratory courses such as those offered in biology, chemistry, geology, physics, psychology.

The purpose of the requirement is to include study in scientific disciplines in which observation, deduction, and analytical reasoning are essential methods. The requirement also ensures that students gain an understanding of scientific discoveries achieved by such methods.

Courses meeting this requirement involve observing experimental parameters, recording and interpreting such observations, and drawing conclusions based on appropriate theoretical frameworks. The experimental dimension is to include appropriate mathematical concepts and applications. Students are also required to demonstrate their ability to present such material in a narrative form.

B. Social Sciences-9 credit hours

The requirement is to be satisfied by courses using the methods of the social sciences. The courses customarily will include study of institutions as they affect individuals and groups. The approach to such study is through disciplines such as economics, political science, and sociology.

C. Cultural Heritage-15 credit hours

Students must choose at least one course from each sub-section of Section C.

1. Religion-minimum of 3 credit hours

Courses satisfying this requirement examine the role of religion in human culture, with this examination directed to a single religion or to a comparative consideration of major religions. These courses include appropriate historical study as well as texts important to the religions.

2. Historical Studies-minimum of 3 credit hours

The minimum is to be met by a 3-credit-hour course in U.S. historical studies. Courses meeting this requirement make evident the methods of history. Such courses may be general in their subject matter or specific or topical in focus, but are to encourage the development of a critical and evaluative attitude toward historical texts and sources.

3. Critical Inquiry-minimum of 3 credit hours

Courses satisfying this requirement are primarily critical/evaluative in approach. This approach can be applied to modes of inquiry, to methods in various disciplines, or to public issues and contemporary views. These courses make evident the individual's responsibility for making informed decisions.

4. Fine Arts-minimum of 3 credit hours

The requirement is to be met by critical and/or historical courses studying one or more of the fine arts (e.g., theater, music, visual arts). Performance courses do not satisfy this requirement.

D. Language and Literature-9 hours

1. Foreign Language-6 hours in the same language at the 20000 level or above satisfy this requirement.

2. Oral Communication or Literature-3 hours

a. Oral Communication

This requirement is satisfied by courses directed to developing skills in oral communication; to training in clear, logical, and persuasive communication appropriate in various contexts; and to evaluating such communication.

b. Literature

Courses satisfying this requirement enable students to learn to analyze and criticize literary texts. These courses are to include appropriate historical, biographical, and ideological materials, and to be developed around a single writer or group of writers, a period, a literary form or genre, and/or critical theories by which the same works are examined by various means.

III. Physical Education: two credit hours

The Physical Education policies and exceptions listed in Requirements for Graduation in *The Bachelor's Degree* section of this bulletin also apply to the Bachelor of Arts degree.

NOTES:

1. 6 hours of UCR credits in a given department may be applied to other baccalaureate requirements in that department such as those for major, minor, etc.

2. Students transferring to TCU must complete a minimum of 6 hours in Writing Emphasis courses at TCU.

3. No more than eight (8) semester hours of Physical Education activity courses may be applied toward graduation requirements.

4. Specific courses have been approved to meet the UCR. These courses are so identified in the printed schedule of classes for each term's offerings.

5. Foreign Language Requirements: Students who are not native speakers of English may satisfy the foreign language requirement for the B.A. degree by submitting to the English Language Center coordinator a score of at least 600 on the Test of English as a Foreign Language (TOEFL) and at least 5.0 on the Test of Written English (TWE). An oral interview may also be required. No academic credit is granted on this basis, but the requirement to take 6 hours of foreign language at the 20000 level is waived.

Approved majors for the B.A. degree:

Economics
 English
 French
 History
 Latin American Studies
 Liberal Studies
 Philosophy
 Political Science
 Religion
 Sociology
 Spanish

The Bachelor of Science Degree

Students pursuing a program leading to a Bachelor of Science degree must complete the minimum number of semester hours (typically 124 or 132), 42 of which must be advanced (30000 level or above), specified for their particular major chosen from the list of approved majors for a B.S. degree below. Specific requirements of each major are to be found in the appropriate section of this bulletin. Where a minor is called for, it is to be selected with the assistance of the student's adviser from the list of approved minors.

In addition to the specific requirements, students must complete the following UCR for the Bachelor of Science degree:

I. Foundations: 9 credit hours

The Foundations requirements, which include courses to refine and enhance skills in critical reading, written composition, and mathematics, allow students beginning the undergraduate curriculum to increase their proficiency in these essential skills.

A. The Writing Requirement-6 credit hours, and the Writing Emphasis Experience.

1. Writing Workshop-6 credit hours

This requirement is to be met by courses designated "writing workshop," with no more than 3 of these hours in freshman-level study. Writing workshop courses assume the student's successful completion of 4 units of high school English.

This requirement is to be met by at least one course in various modes of composition, including analytical writing and research techniques and writing. Both writing courses are to include a reading component providing composition models of suitable kinds. Student writing in these courses is expected to increase competence in grammar, mechanics, and other conventions customary in written discourse.

AP or CLEP credit may satisfy up to 6 hours of the writing requirement.

2. Writing Emphasis Experience

To allow juniors and seniors to increase their writing skills, the University Curriculum includes a writing emphasis component.

This requirement, which ordinarily should not increase the credit hours required by the University Curriculum, is to be satisfied by two upper-division courses (3 credit hours for each) with a "writing emphasis" designation. Because any academic unit of the University may offer courses with a writing emphasis, courses satisfying other baccalaureate degree requirements may also meet the writing emphasis requirement of the University Curriculum.

B. Mathematics-3 credit hours

This requirement is to be satisfied by Department of Mathematics courses at or above the freshman level. Appropriate courses assume the student's successful completion of 3 units of high school mathematics: two in algebra and one in geometry.

AP or CLEP credit may satisfy this requirement.

II. Explorations: 42 credit hours

The Explorations requirements assure that all baccalaureate candidates encounter certain broad areas of knowledge. Through this experience, the student will gain knowledge and perspectives by studying various domains of human knowledge and experience.

The Explorations requirements allow no more than 6 credit hours from courses in a single department or in that department's cross-listed courses. This limitation applies regardless of the UCR groups in which the department's course offerings appear. Approved integrative courses are excluded from this restriction.

AddRan students are required to choose a course which exposes them to a non-U.S. cultural perspective as they fulfill the requirements of this section.

A. Physical and Life Sciences-9 credit hours

Six (6) credit hours must be in laboratory courses such as those offered in biology, chemistry, geology, physics, psychology.

The purpose of the requirement is to include study in scientific disciplines in which observation, deduction, and analytical reasoning are essential methods. The requirement also ensures that students gain an understanding of scientific discoveries achieved by such methods.

Courses meeting this requirement involve observing experimental parameters, recording and interpreting such observations, and drawing conclusions based on appropriate theoretical frameworks. The experimental dimension is to include appropriate mathematical concepts and applications. Students are also required to demonstrate their ability to present such material in a narrative form.

B. Social Sciences-9 credit hours

The requirement is to be satisfied by courses using the methods of the social sciences. The courses customarily will include study of institutions as they affect individuals and groups. The approach to such study is through disciplines such as economics, political science, and sociology.

C. Cultural Heritage-15 credit hours

Students must choose at least one course from each subsection of Section C.

1. Religion-minimum of 3 credit hours

Courses satisfying this requirement examine the role of religion in human culture, with this examination directed to a single religion or to a comparative consideration of major religions. These courses include appropriate historical study as well as texts important to the religions.

2. Historical Studies-minimum of 3 credit hours

The minimum is to be met by a 3-credit-hour course in U.S. historical studies.

Courses meeting this requirement make evident the methods of history. Such courses may be general in their subject matter or specific or topical in focus, but are to encourage the development of a critical and evaluative attitude toward historical texts and sources.

3. Critical Inquiry-minimum of 3 credit hours

Courses satisfying this requirement are primarily critical/evaluative in approach. This approach can be applied to modes of inquiry, to methods in various disciplines, or to public issues and contemporary views. These courses make evident the individual's responsibility for making informed decisions.

4. Fine Arts-minimum of 3 credit hours

The requirement is to be met by critical and/or historical courses studying one or more of the fine arts (e.g., theater, music, visual arts). Performance courses do not satisfy this requirement.

D. Languages and Literature-9 credit hours

If any foreign language credit is used toward this requirement, 6 hours must be taken in the same language.

1. Foreign Language-Foreign language courses at or above the freshman level satisfy this requirement. AP or CLEP credit may also be applied.

2. Oral Communication or Literature-If foreign language credit is used, the remaining 3 credit hours are to be selected from oral communication or literature; otherwise, the 9 hours are to come from oral communication and literature courses.

a. Oral Communication-This requirement is satisfied by courses directed to developing skills in oral communication; to training in clear, logical, and persuasive communication appropriate in various contexts; and to evaluating such communication.

b. Literature-Courses satisfying this requirement enable students to learn to analyze and criticize literary texts. These courses are to include appropriate historical, biographical, and ideological materials, and to be developed around a single writer or group of writers, a period, a literary form or genre, and/or critical theories by which the same works are examined by various means.

III. Physical Education: 2 credit hours

The Physical Education policies and exceptions listed in Requirements for Graduation in "The Bachelor's Degree" section of this bulletin also apply to the Bachelor of Science degree.

NOTES:

1. Six (6) hours of UCR credits in a given department may be applied to other baccalaureate requirements in that department such as those for major, minor, teaching specialty, etc.

2. Students transferring to TCU must complete a minimum of 6 hours in Writing Emphasis courses at TCU.

3. No more than eight (8) physical activities courses may be applied toward graduation requirements.

4. Specific courses have been approved to meet the UCR. These courses are so identified in the printed schedule of classes for each term's offerings.

5. Foreign language requirements: Students who are not native speakers of English may satisfy the foreign language requirement for the B.S. degree by submitting to the English Language Center coordinator a score of at least 600 on the Test of English as a Foreign Language (TOEFL) and at

least 5.0 on the Test of Written English (TWE).

Approved Majors for the B.S. Degree

Economics
Fashion Merchandising
Fashion Promotion
Interior Design
Liberal Studies
Political Science

Other Bachelor of Science Degrees. The UCR listed above for the Bachelor of Science degree also apply to the degrees of Bachelor of Science in Criminal Justice and in Social Work.

Multiple Majors

Students with a first major in AddRan may declare an additional major in lieu of or in addition to a minor on either a B.A. or B.S. degree. The additional major may be selected from the other colleges and schools at TCU. Students seeking an additional major in a school other than AddRan must have the approval of the dean of AddRan and the dean of the additional major.

Students with a first major in another TCU school may select additional majors from those available in AddRan with the approval of the dean of the first major and the dean of AddRan. Students whose first major is in the School of Fine Arts and Communication, and who seek a second major or second degree from AddRan need only meet the Fine Arts and Communication version of the UCR with one exception. If the AddRan major is one approved for the B.A., then students must satisfy the language requirement of 6 hours in the same language at or above the 20000 level.

The degree awarded will be that appropriate to the major designated as the first major. All degree requirements for each major must be satisfied. These include all University Curriculum Requirements (UCR) associated with any particular major as well as all associated requirements.

Pass/No Credit Option

The department of the major controls acceptability of P/NC for studies in both the major and minor, if any. For a specific major, consult the appropriate section of the AddRan section of this Bulletin. The P/NC option is not allowed in any English as a Foreign Language course offered by the English Language Center.

Transfer Credit

Students wishing to take courses at another college or university following their admission to Texas Christian University must receive approval of such courses through the office of the Dean of AddRan College before enrolling in them.

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Aerospace Studies

[Programs Available](#)
[General Qualifications](#)
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(AEST)

The United States Air Force Reserve Officer Training Corps (AFROTC) provides women and men at Texas Christian University, Texas Wesleyan University, Dallas Baptist University, University of Texas at Arlington, Weatherford College and Tarrant County Junior College the education and training necessary to develop the management and leadership skills vital to professional Air Force officers.

Enrollment in the General Military Course (first two years) is voluntary for eligible students and does not obligate non-scholarship students for further military service. The Professional Officer Course (last two years) is also voluntary but competitive. Because the POC leads to a commission in the United States Air Force, those selected to continue training may incur military obligation.

Aerospace studies courses are taken concurrently with other degree programs. No degree is offered in aerospace studies, but up to 24 semester hours may be earned in aerospace studies over the four-year period. Some of the classes may be used to meet major elective requirements. See your academic advisor for confirmation. Students who enroll in aerospace studies classes must attend both classroom and leadership laboratory classes at Texas Christian University, 2800 W. Lowden St., Fort Worth, Texas. The laboratory classes give students first hand experience in leadership and organizational skill while preparing them for enrollment in the Professional Officer Course.

Programs Available

Four Year Program: This program enables students to take advantage of four years of aerospace studies courses. Each semester, for the first two years, cadets take a one-credit hour academic class and a one-credit hour pass/no credit Leadership Laboratory (LLab). The first two years collectively are referred to as the General Military Course (GMC). Upon successful completion of the GMC and an ensuing four-week Air Force paid field training course, qualified and selected students may elect to enroll in the final two years referred to as the Professional Officer Course (POC). Each semester in the POC, students will take a three-credit hour academic class and a one-credit hour pass/no credit LLab. AFROTC uniforms and textbooks are issued by the unit.

Two Year Program: This program is commonly known as the Professional Officer Course (POC) and enables eligible graduate and undergraduate students to obtain a commission in the United States Air Force. Formal selection for entering the POC requires completion of a summer field training course.

Students electing this option must apply to the Professor of Aerospace Studies early in their sophomore year or before entering a graduate degree program, pass the Air Force Officer Qualifying Test, and pass a physical examination prior to attending the five-week field training course. Two-year students enrolled in the POC receive similar benefits and advantages to those enrolled in the four-year program, including the opportunity to apply for various Air Force ROTC college scholarships. Students selected for the POC receive a monthly subsistence allowance. In addition, POC students are automatically awarded an incentive scholarship provided they meet all incentive requirements.

General Qualifications

A student enrolling in AFROTC must:

1. Be a full-time student (12 semester hours or more; 9 hours for postgraduate students)
2. Be a United States citizen
3. Be in good physical condition/health
4. Have good moral character
5. Be no older than 29 years old (up to 34 years old with waivers) upon commissioning

Scholarships. Air Force ROTC offers 4, 3, 2, and 1 year (in some situations) scholarships. Most scholarships pay for tuition, textbooks, and fees plus a monthly, nontaxable stipend during the school year. Scholarships are offered in various majors. In addition to meeting the general qualifications mentioned above, scholarship applicants must be at least 17 years of age when the scholarship is activated and must be under 27 years of age as of June 30 of their commissioning year. Individuals with previous military experience may obtain a year extension of the maximum age restriction for up to 3 years of prior service. Requirements for each scholarship category may vary; therefore, applicants should contact the Department of Aerospace Studies at (817) 257-7461 for specific details.

High School students may apply for a 4-year scholarship no later than Dec. 1 of their high school senior year. Scholarship applications for college students are made through the Aerospace Studies Department in the spring semester. Scholarship applicants are selected using the whole person concept, which includes objective factors (i.e.

grade point average and physical fitness test) and subjective factors (i.e. personal evaluations). Students who are enrolled in Air Force ROTC generally improve their scholarship selection opportunity.

Those students who are offered an AFROTC scholarship with an SAT of 1100 or ACT of 24, and who attend TCU, may be offered a TCU Room and Board subsidy. Three-year scholarship winners with the above scores could possibly receive an additional semester of tuition paid if attending TCU.

Program Benefits. As Air Force ROTC cadets, students are entitled to selective benefits. Social and co-curricular activities, together with leadership and academic training, are all part of Air Force ROTC. Students receive a nontaxable subsistence allowance each month during the school year if they are in the Professional Officer Course or are an AFROTC scholarship recipient. The detachment sponsors a Civil Air Patrol where cadets can obtain front-seat and back-seat flying time in Cessna aircraft for a small fee. Drill team, honor guard, Arnold Air Honor Society, Silver Wings Service Organization, and Officer Christian Fellowship are just a few social outlets for the cadets. Summer opportunities for cadets can include a paid visit to a military installation for 5 days, Freefall Parachuting and Soaring at the United States Air Force Academy, Combat Survival Training, Flight Nurse shadowing, and cadet training assistant duty at field training.

Receiving Commission. Upon successful completion of the AFROTC program and baccalaureate or graduate degree, a student will be commissioned a second lieutenant in the U. S. Air Force. Newly commissioned officers can normally expect to be called into active service within 30 days from the date of their commissioning. In certain instances, active service can be delayed by students continuing in post-baccalaureate degree programs.

Additional Information. More detailed information about the Air Force ROTC program is available through the Department of Aerospace Studies. The department is located at 2800 W. Lowden Street on the Texas Christian University campus. The telephone number is (817) 257-7461 or call 1-800-TCU-FROG and ask for Air Force ROTC.

The following is a complete list of courses offered by this department. Go to Class Search on the Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

Foundation of the United States Air Force (AEST 10211 in the fall and 10221 in the spring): AS100 is a survey course designed to introduce students to the U.S. Air Force and Air Force ROTC. Featured topics include: mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer opportunities, and an introduction to communication skills. Leadership Laboratory (AEST 10001) complements this course by providing cadets with followership experiences.

The Evolution of USAF Air and Space Power (AEST 20211 in the fall and 20221 in the spring): AS200 is a survey course designed to examine general aspects of air and space power through a historical perspective. Utilizing this perspective, the course covers a time period from the first balloons and dirigibles to the space-age global positioning systems of the Persian Gulf War. Historical examples are provided to extrapolate the development of Air Force capabilities (competencies), and missions (functions) to demonstrate the evolution of what has become today's USAF air and space power. Furthermore, the course examines several fundamental truths associated with war in the third dimension: e.g. Principles of War and Tenets of Air and Space Power. As a whole, this course provides the student with a knowledge level understanding for the general element and employment of air and space power, from an institutional, doctrinal, and historical perspective. In addition, the students will continue to discuss the importance of the Air Force Core Values with the use of operational examples and historical Air Force leaders and will continue to develop their communication skills. In addition, Leadership Laboratory (AEST 10001) is mandatory for Air Force ROTC cadets (not special students), and it complements this course by providing cadets with followership experiences.

Leadership Studies (AEST 30113 in the fall and 30123 in the spring): AS300 is a study of leadership, management fundamentals, professional knowledge, Air Force personnel and evaluation systems, leadership ethics, and communication skills required for an Air Force junior officer. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied. A mandatory Leadership Laboratory (AEST 10001) complements this course by providing advanced leadership experiences in officer-type activities, giving students the opportunity to apply leadership and management principles of this course.

National Security Affairs/Preparation for Active Duty (AEST 40113 in the fall and 40123 in the spring): AS 400 examines the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Special topics of interest focus on the military as a profession, officership, military justice, civilian control of the military, preparation for active duty, and current issues affecting military professionalism. Within this structure, continued emphasis is given to refining communication skills. An additional Leadership Laboratory (AEST 10001) complements this course by providing advanced leadership experiences, giving students the opportunity to apply the leadership and management principles of this course.

10001 Leadership Laboratory (LLab) (Every semester): The AS100 and AS200 L Labs include a study of Air Force customs and courtesies, drill and ceremonies, and military commands. The LLab also includes studying the environment of an Air Force officer and learning about areas of opportunity available to commissioned officers. The AS300 and AS400 L Labs consist of activities classified as leadership and management experiences. They involve the planning and controlling of military activities of the cadet corps; and the preparation and presentation of briefings and other oral and written communications. L Labs also include interviews, guidance, and information that will increase the understanding, motivation, and performance of other cadets.



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Anthropology

(ANTH)

Administered by the Department of Sociology and Criminal Justice. Available as a minor on the B.A. and B.S. degrees.

Requirements for a minor. Eighteen semester hours of approved courses including at least 9 hours of anthropology courses, one of which must be ANTH 20623. Additional courses may be selected from the following list or others if approved by the anthropology adviser.

The following is a complete list of courses offered by this department. Go to Class Search on Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

20623 INTRODUCTORY CULTURAL ANTHROPOLOGY. Analysis of human cultural life by comparison of varied life-ways; emphasis on non-western peoples; economics, social organization, political organization, art styles, and similar cultural conditions.

30613 INTRODUCTION TO ARCHAEOLOGY. An introduction to basic techniques, methods, and concepts in archaeology and a review of selected archaeological findings. History and development of archaeology, basic field methods, the evolution of humans and culture, reconstruction and processual interpretation. Site visits to excavations in process.

30623 URBAN ANTHROPOLOGY. Development and characteristics of urban societies and the culture of modern cities. Evaluation of theories and methods for understanding the structure, function and change in the social and cultural systems of urban areas.

30633 ANTHROPOLOGY AND SPORTS. The relationship between social science and the study of sports and other play forms; games and play in cross-cultural contexts; American sports and recreation.

30643 ANTHROPOLOGY AND EDUCATION. A comparative study of the teaching and learning processes in societies of differing complexity and cultural variability. Empirical data is examined from an anthropological perspective and in the context of theories about culture and perception, world view, rites of passage, culture and personality, and change.

30653 CULTURE AND HUMAN SEXUALITY. This course examines the importance of culture for understanding human sexuality issues. Topics covered include biological, social, emotional, cognitive and spiritual issues related to sexuality. Contemporary political, legal and health issues are discussed critically, and gender is discussed as a cultural construct.

30713 INTERMEDIATE ARCHAEOLOGY. *Prerequisite: ANTH 30613.* A continuation of Anthropology 30613, with an in-depth treatment of basic techniques, methods and concepts of archaeology and a continued update in recent archaeological discoveries, emphasizing North America. Concentrated research using published site reports and professional journals. Site visitations to excavations in process will be initiated whenever applicable.

30723 ETHNOLOGY OF SELECTED AREAS. Origin and distribution of the native populations of selected areas. The historical development and current perspectives of institutions, belief and value systems, and comparative organization of cultural areas. Possible areas to be examined include Native North Americans, peoples of South America, peoples of Africa.

30913 LANGUAGE AND CULTURE. Introduction to anthropological linguistics with emphasis on social aspects of language, including cultural categories of phenomena, translation difficulties, dialect prestige, bilingualism and body language.

30923 STUDIES IN ANTHROPOLOGY. Topics of interest in anthropology, including substantive areas of the discipline.

30933 STUDIES IN ETHNO-ARCHAEOLOGY. An examination of world cultures based on the results of information secured by technologists and archaeologists working in the field. The topical focus may vary each semester.

30973 ANTHROPOLOGY AND RELIGION. (Religion 30673) Interpretations of myths, symbols and religious beliefs and religion in society; religion and cultural change. Focus is on non-Western peoples and their religions.

30983 ANTHROPOLOGICAL FIELD METHODS. *Prerequisite: ANTH 20623 or permission of instructor.* The phases and problems of the cultural anthropological field experience, including methods for collecting ethnographic data, entry into the field, role and image conflict, participant-observation, interviewing, life histories, network analysis. Practice in instruments and techniques both in the classroom and local "field laboratory."

40620 DIRECTED READING OR RESEARCH IN ANTHROPOLOGY. For upper-division students who undertake projects in anthropology in regular consultation with the instructor, for one to three semester hours credit.

50623 ADVANCED GENERAL ANTHROPOLOGY. An overview of the field, including archaeology, linguistics, ethnology, and physical anthropology. Description and analysis of the profession, its history, theoretical foci, intellectual leaders and current ethical dilemmas. For advanced undergraduates and graduate students with opportunities to pursue individual interests within the field.

50923 KINSHIP AND SOCIAL ORGANIZATION. *Prerequisite: ANTH 20623 or permission of instructor.* Principles of descent, kinship terminology and formation of descent groups, including an examination of specific terminological systems in relation to other features of social organization; the adaptive dynamics of family, groups, kinship, and extra-familial associations in simple and complex societies.

HISTORY 40703 INDIANS OF THE UNITED STATES.

HISTORY 40713 INDIANS OF THE GREATER SOUTHWEST

HISTORY 50970 SPECIAL STUDIES ON THE AMERICAN INDIAN

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Asian Studies

Available as a minor on the B.A. and B.S. degrees.

The minor offers the student multidisciplinary opportunities to study subjects concerning the peoples and cultures of Asia. Students are required to take six hours (two courses) introducing the civilizations of South and East Asia, and then may choose twelve more hours from a variety of other courses focusing on the history and thought of the peoples in Asia. *A maximum of six hours may be taken in one department.* Contact the Office of the Dean, AddRan College of Humanities and Social Sciences.

Required Courses:

CHIN 30113 Chinese Culture and Civilization or JAPN 30113 Japanese Culture and Civilization
RELI 30513 Hindu Religious Perspectives, or RELI/ENGL 30773 India: Texts and Traditions

Optional Courses:

One semester of college Chinese (selected from CHIN 10163, 20053, or 20063)

HIST 30433 History of China and Japan to the 19th Century
HIST 30443 History of China and Japan from 1800 to the Present

One semester of college Japanese (selected from JAPN 10163, 20053, or 20063)

PHIL 20333 Asian Philosophy
RELI 30523 East Asian Religious Perspectives
RELI 30533 Buddhism: Thought and Practice

Other courses may be allowed with approval of the minor coordinator when these courses focus on Asia (e.g., JOUR 40543 International and Intercultural Communications or RTVF 40970 National Cinemas.)

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British and Colonial/Post-Colonial Studies

(BRST)

This minor is designed to provide students with an understanding of the current state and history of Great Britain and its former and current colonies. It is interdisciplinary in nature, drawing upon departments and course offerings throughout the university, as well as the TCU London Centre. Through this minor, students become aware of how different areas of study, including art, film, history, journalism, literature, religion, and social behavioral and natural sciences, coalesce and contribute to the knowledge of a particular region. It also provides the student with a framework for investigating issues of globalization, such as the impact of colonization on nations and their history and the state of the former colonies in contemporary life.

Requirements for a minor. The minor requires completion of two core courses, a disciplinary concentration consisting of two courses, an elective course, and the senior seminar. The designated core courses draw from a variety of disciplines and are selected to complete the following goals: to provide the student with foundational knowledge about Great Britain, its history and culture, and the processes of change over time; and to provide the student with an introduction to the critical issues of Colonial/Post-Colonial Studies. The disciplinary concentration allows the student to develop an area of specialization-Communications, Fine Arts, Humanities, Natural Sciences, or Social Sciences-within the minor.

The minor is 18 hours. These 18 hours must draw from at least three different departments. A maximum of 6 hours can be completed at the 10000/20000 level and no more than 9 hours can be completed through the London TCU Centre. Special problems courses, independent study courses, courses taken through U.K. based study abroad programs, internships, and other courses of this nature may be included in the minor with the approval of the Program Director. For further information, including a list of eligible courses and a recommended plan of study, contact the Program Director or the AddRan Dean's Office.

The following is a complete list of courses offered by this department. Go to Class Search on Registrar's Page to see which courses are being taught this semester.

Course of Instruction

40003 SENIOR SEMINAR IN BRITISH AND COLONIAL/POSTCOLONIAL STUDIES. This is the capstone course for the minor, and includes readings in British and colonial/postcolonial studies and an independent project. The independent project is pursued in consultation with the program director, and aims to reflect on the student's work in the minor, to synthesize the skills developed through the student's coursework, and to consider how they might be applied after graduation. Projects may include: an original creative performance; a scientific investigation; a portfolio of critical writing; or a U.S.-based internship with an employer with substantial interests in Britain or the former colonies. All projects also require a journal documenting and reflecting on the student's progress

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Business (3-2 Program)

AddRan College of Humanities and Social Sciences and M.J. Neeley School of Business offer a combined program leading to a bachelor's degree in Humanities and Social Sciences and a master's degree in Business Administration (MBA). The Three-Two Program, as it is called, takes five years to complete. (Note: Students intending to pursue the 3-2 program should make their plans known, as early as possible, to the AddRan Dean's Office.)

Students interested in the program spend the first three years in AddRan completing the University Curriculum Requirements and meeting the requirements of their major field. By the end of their third year, Three-Two Program students must complete at least 100 hours in non-business courses, including sufficient coursework in mathematics to satisfy the MBA Program prerequisites. To be considered for admission to the MBA Program, Three-Two Program participants must submit the usual MBA application during their third year of study, including scores for the GMAT (Graduate Management Admissions Test). Only Three-Two candidates demonstrating superior undergraduate academic performance and strong GMAT scores will be considered for admission.

If admitted to the MBA Program, the student completes the first 27 semester hours of the MBA Program during the fourth year of study. These courses apply to both the undergraduate degree and toward the MBA degree. Candidates should work with their undergraduate academic advisors to determine how the courses will apply to the undergraduate degree (electives, minor requirements, area of emphasis, etc.). At the end of the fourth year, assuming that all other graduation requirements are met, the student earns his or her undergraduate degree. The student must petition the Dean of AddRan to be awarded the undergraduate degree at this time. During the fifth year the student completes the remaining 27 semester hours of MBA courses.

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Criminal Justice

[Requirements for a minor in Criminal Justice.](#)

[Honors Program.](#)

[B.S./M.B.A. 3-2 Program.](#)

[Alpha Phi Sigma.](#)

[Courses of Instruction](#)

(CRJU)

Available as a major on the B.S. degree and as a minor on the B.A. and B.S. degrees.

Criminal Justice serves the academic needs and career objectives of a variety of students. The major in Criminal Justice can serve as preparation for further formal education in graduate or law school, as well as for immediate entry into careers in the criminal justice system. Courses may be selected to emphasize any of the three components of the criminal justice system: police, courts, or corrections. Alternatively, students may choose courses that provide exposure to special issues and problems in criminal justice. In addition, the internship program provides students opportunities to experience working in the criminal justice field.

Transfer students may receive a maximum of 9 hours credit in the major for criminal justice courses taken at accredited colleges and universities. A maximum of 6 hours may be counted toward the minor. The Director of the Criminal Justice Program will determine the applicability of such coursework to the program's degree requirements.

Requirements for the B.S. in Criminal Justice Degree. A total of 124 semester hours is required. The degree does not require a foreign language. The major requires 39 hours in criminal justice courses and 6 hours in associated courses:

39 semester hours in Criminal Justice (CRJU) must include:

CRJU 20413 Introduction to Criminal Justice
CRJU 20423 Critical Issues in Crime and Justice
CRJU 20873 Criminal Justice Research Methods I
CRJU 20883 Criminal Justice Research Methods II
CRJU 30313 Criminology

At least one law enforcement course (CRJU 30613 or 30623)

Legal Aspects of Criminal Justice I or II (CRJU 30403 or 30413)

At least one corrections course (CRJU 30393 or 30643)

CRJU 40963 Internship in Criminal Justice

6 hours of associated courses:

POSC 10133 American and Texas Government
SOC 20213 Introductory Sociology

Although taught regularly, not all required courses are scheduled every semester. It is the student's responsibility to complete the major requirements for graduation as early in their tenure as possible. Exemptions to the major requirements will not be made because of student failure to complete coursework in a timely fashion.

Requirements for a minor in Criminal Justice. The minor in criminal justice requires 18 hours. CRJU 20413 Introduction to Criminal Justice and CRJU 30313 Criminology are required courses for the minor.

Pass/No Credit. Courses in the major may not be taken on a Pass/No Credit basis.

Honors Program. Criminal Justice majors who plan to pursue Departmental Honors must be members of the Honors Program and should enroll in CRJU 30003 during their junior year and CRJU 40003 during the fall semester of their senior year.

B.S./M.B.A. 3-2 Program. Criminal Justice is an approved major for TCU's three-two program. A student completing this program will receive both a B.S. in Criminal Justice and a Master's in Business Administration over the course of five school years. Students should start this program early in their tenure at TCU and must be admitted to the M.J. Neeley School of Business. Students interested in federal law enforcement or in administrative/policy development positions within the criminal justice system are encouraged to apply.

Alpha Phi Sigma. The Criminal Justice program sponsors a chapter of Alpha Phi Sigma, the national honor society in the discipline. Any major or minor in Criminal Justice with a 3.0 overall GPA and a 3.2 in criminal justice related courses is eligible.

The following is a complete list of courses offered by this department. Go to Class Search on the Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

20413 INTRODUCTION TO CRIMINAL JUSTICE. History, theory, and structure of the criminal justice system in the United States. Examination of the various components of the criminal justice process including police, the courts, corrections.

20423 CRITICAL ISSUES IN CRIME AND JUSTICE. An examination of the major problems and issues confronting the criminal justice system. Emphasis is on development of critical thinking skills and their application to justice-related problems.

20873 CRIMINAL JUSTICE RESEARCH METHODS I. An introduction to the statistical vocabulary and techniques basic to criminal justice. The course covers measures of central tendency, measures of variation, one- and two-sample t and z test statistics, paired t-tests, basic sampling distribution theory, Chi Square goodness of fit and independence tests, measures of association and simple linear regression. Students are taught basic programming using SPSS (Statistical Package for the Social Sciences). It is expected the student will enroll in CRJU 20883 in the semester following completion of this course.

20883 CRIMINAL JUSTICE RESEARCH METHODS II. *Prerequisite: CRJU 20873.* An introduction to criminal justice research procedures, with emphasis on the collection, analysis and interpretation of social data.

30003 HONORS IN CRIMINAL JUSTICE. For Honors students and other selected superior students with permission of the Director of the Criminal Justice Program. Studies, reports, and discussions of the literature of criminal justice. Examination of significant problems and trends.

30223 CONTEMPORARY TOPICS IN CRIMINAL JUSTICE. Topics of current interest in crime and justice. Topics change, therefore this course may be taken more than once.

30313 CRIMINOLOGY. (SOCI 30313) *Prerequisite: SOCI 20213, or permission of instructor.* Study of crime in America, with focus on sociological theories of crime causation, treatment, and prevention.

30393 SOCIOLOGY OF CORRECTIONS. (SOCI 30393) The study of correctional agencies and programs, including the social structure of the prison and its impact on the offender, deterrent and treatment effects of correctional practices, probation and parole, and an examination of various experiments in institutional and community based corrections.

30403 LEGAL ASPECTS OF CRIMINAL JUSTICE I. *Prerequisite: 20413 or permission of instructor.* Major issues in criminal law and procedure emphasizing the police and the prejudicial process. Course involves the study of the nature of criminal law, the basic elements of crime, legal issues in law enforcement such as search and seizure, interrogation, and basic evidentiary concepts.

30413 LEGAL ASPECTS OF CRIMINAL JUSTICE II. *Prerequisite: 20413 or permission of instructor.* Continued examination of fundamental legal issues and procedure, emphasizing the post arrest process. Discussion of such areas as right to counsel, pretrial release, the appeals process, and prisoner legal rights.

30423 COURTS AND JUDICIAL PROCESS. An in-depth examination of the American court system. Special topics will include a comparison and contrast of state and federal court systems, a discussion of socialization processes within the legal profession, and an evaluation of the impact of politics on the judicial process.

30453 JUVENILE JUSTICE. The law of juvenile delinquency and the administration of the juvenile justice system. The historical development of the concept of delinquency, the special status of juveniles before the law, and juvenile justice procedural law will be examined in detail. Recent developments in legal reform concerning delinquency and dependency will be reviewed, as well as change within the youth corrections system. CRJU 20413 is recommended but not required as a prerequisite.

30523 CRIME SCENE INVESTIGATION. An introduction to the recognition, collection and evaluation of physical evidence arising from a crime or suspicious incident, concentrating on the various techniques of crime scene investigation including crime scene search, note-taking, sketching, photography, and preservation of evidence.

30533 COUNSELING SKILLS AND CRISIS INTERVENTION IN THE CRIMINAL JUSTICE SYSTEM. (SOWO 30533) Theories and methods of professional intervention with emphasis on those professionals with clients in the criminal justice system. Focus is on the development of skills which can be applied to individuals, families, and groups in both community-based and institutional settings. This course is primarily for Criminal Justice majors and Social Work minors.

30543 CRIMINALISTICS. An exploration of the various techniques and instruments used to analyze organic and non-organic evidence obtained from crime scenes, with an examination of new techniques such as DNA analysis.

30613 POLICE IN A FREE SOCIETY. Covers the organization and administration of law enforcement agencies, the function of police, police discretion, ethics, police-community relations, and the future of policing in American society.

30623 POLICE AND THE COMMUNITY. An examination of the relationship between police and the communities they serve. Topics include police and public opinion, police violence, citizen complaints, politics and the police function, police ethics, police and the media.

30633 CRIMINAL JUSTICE PERSONNEL ADMINISTRATION. Personnel management and administration in criminal justice agencies and institutions, especially police agencies. Analyzes functions of recruitment and selection, placement, evaluation, dismissal, benefit systems, minority recruitment, training, education, promotion, career development, and retirement.

30643 COMMUNITY CORRECTIONS. An examination of the role of the community in the reintegration of offenders. Analysis of those correctional programs which are designed to be administered in a community setting, including probation, parole, halfway houses, restitution, and community service.

30803 VICTIMOLOGY. (SOCI 30803) Major aspects of the emerging field of victimology. Topics include the historical role of victims, the nature of victimization in modern America, the victimization experience, legal aspects of victimization, victimization and the political process, solutions to victimization, and the future of victims' rights and victimology.

30813 RACE AND GENDER ISSUES IN CRIMINAL JUSTICE. A critical examination of race and gender issues within the criminal justice system. Students will explore topics such as the importance of race and gender in the development and organization of the criminal justice system; the discretionary application of justice to minorities and women in the areas of policing, courts, and corrections; sexual harassment; and the relationship between poverty and crime.

30823 CRIMINAL VIOLENCE. An in-depth survey of the various types of criminal violence. The criminal justice response to violence will be highlighted. Topics include domestic violence, mass murder, serial killing, riots, and gang violence.

30903 LAW AND SOCIETY. (SOCI 30903) An examination of the relationship between legal institutions and social processes. Topics include the nature of law, historical evolution of legal systems, creation and organization of law in modern societies, social functions of law, and the limits of law as an instrument of social control.

30913 Psychology and Criminal Justice. *Prerequisite: CRJU 20413, SOCI 20213 or PSYC 10213 or equivalent.* An exploration of the psychological and social psychological dimensions of criminal justice. Discussion topics may include: psychological and social psychological origins of criminal behavior, addiction and crime, police aggression and violence, police personality, insanity and the law, sex offenders, prison subculture and behavior, jury selection and deliberation, and eyewitness accounts.

30923 ORGANIZED CRIME. An in-depth view of organized crime including its relationship to social structure, historical analysis of the Mafia, the extent and impact of modern and nontraditional organized crime and prospects for its control.

30933 CRIME AND THE MEDIA. The effects that the media have on the perception of crime. The social construction of many "myths" that surround crime and criminal justice. Special topics include film as a mythmaker, media as moral policies, and media-based anticrime efforts.

30973 VICTIMLESS CRIME. An in-depth examination of victimless crime highlighting its social control and social construction. Specific topics include gambling, prostitution, drug and alcohol use, and pornography.

40003 SENIOR HONORS PAPER IN CRIMINAL JUSTICE. For Honors students obtaining a B.S. in Criminal Justice. A research study and paper, under faculty direction, in some area of criminal justice.

40463 JUVENILE DELINQUENCY. (SOCI 40463) *Prerequisite: SOCI 20213, or permission of instructor.* Its causes, treatment, and prevention; the child, the clinic, and the court; philosophical, historical, and traditional foundations of juvenile law.

40503 WHITE COLLAR CRIME. The phenomenon of white collar and organizational crime described and explained from a sociological perspective. An examination of its nature, extent, and costs, with special attention to the social structural and organizational forces which give rise to such crimes.

40903 ETHICS IN CRIMINAL JUSTICE. *Prerequisite: CRJU 20413.* The general aim of this course is to identify and provide insight into the major value dilemmas confronting practitioners and professionals in the criminal justice system. Police conduct, courtroom conduct, and correctional professional's conduct are at issue and, as topics, will structure classroom discussion.

40963 INTERNSHIP IN CRIMINAL JUSTICE. *Prerequisite: Permission of Criminal Justice Internship Director.* Students serve for a minimum of 125 hours per semester as participant-observers in a local criminal justice agency. Students will submit a weekly verified report on hours worked to the Internship faculty supervisor. The faculty supervisor will meet with all interns in a seminar discussion of internship problems and activities at least once per month. Each student will submit a final written report and evaluation.

40970 INDEPENDENT STUDY IN CRIMINAL JUSTICE. A specific program of study must be approved by the Director of the Criminal Justice Program prior to enrollment in this course. May be taken for credit ranging from 1 to 6 semester hours depending on the project undertaken.

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Classical Studies

Minor Not Currenty Available

Available as a minor on B.A. and B.S. degrees.

The minor in classical studies is designed to complement majors in other areas of the liberal arts. Requirements ensure exposure to a variety of fields, yet allow concentration (up to 12 hours) in one field. Required are 21 hours, including at least 9 hours at the upper division level, selected from classical studies courses and distributed as follows: Three hours each in Classical Literature, Greek or Roman Art History, Greek or Roman History, Ancient Philosophy, and 9 hours of electives. Each student is urged to take Greek or Latin to satisfy the UCR. Six hours of Greek or Latin at the 20000 level can be counted toward the minor in Classical Studies.

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Design, Merchandising and Textiles

[Interior Design](#)
[Fashion Merchandising](#)
[Courses of Instruction](#)

(DEMT) Available as a B.S. degree with two major options:
Interior Design
Fashion Merchandising

Accreditations. The Interior Design Program is accredited by the Foundation for Interior Design Education Research.

Affiliations. Students who demonstrate high scholarship are eligible for membership in the Beta Zeta chapter of Phi Upsilon Omicron, a national honor society. The department sponsors the Texas Christian University Interior Design Association, a pre-professional organization. Opportunities are available for students to affiliate with student sections of professional organizations including: The American Society of Interior Designers, International Interior Design Association, Illuminating Engineering Society and Fashion Group International.

Requirements for a B.S. degree or Minor from the department. All courses in the Department of Design, Merchandising and Textiles applied toward any major in the department and any minor in the department must be taken on the letter grade system. Department majors may take courses in their minor on the Pass/No Credit basis if it is not a minor offered by the department.

Minimum Grade Required: To graduate with a Fashion Merchandising or an Interior Design major, students must obtain a "C" or better in all major courses.

Summer Study Programs. The New York Study Program provides a study of the textile, apparel and merchandising industries and the significance of New York City as an international business center. The course is available for 3 semester hours of undergraduate credit.

The department participates in the TCU at Scotland program, an interdisciplinary program that focuses upon the Scottish Enlightenment. The course is available for 3 hours undergraduate credit satisfying the History of Interiors requirement.

Costume History in Paris and London focuses on the study of costume in museums, textile, apparel and merchandising firms in major European fashion centers. The course is available for 3 to 7 semester hours of undergraduate credit including DEMT 30233, 40233, and 40970.

Honors Program. Departmental Honors are available. See DEMT 30003, 40003.

Career Development. For students interested in Interior Design, a review process involving portfolios, grades and aptitude tests is required to clarify their programmatic and career development.

Major: Interior Design

This program prepares the student for a career as a professional interior designer. It educates the student in creativity, design process, technical skills and theory in order to successfully enter the profession. The FIDER accredited program prepares students for the opportunity to complete the necessary steps to obtain state licensing and NCIDQ certification. A formal portfolio review is initiated during DEMT 20443, Interior Design I. Acceptance by the Interior Design faculty is necessary for continuation in the program. **Major Requirements:** DEMT 10423, 10413, 10453, 20403, 20413, 20433, 20443, 30073, 30091, 30413, 30423, 30453, 30473, 30483, 30493, 40433, 40453, 40464, 40474, 40493. Related Requirement: ART 10063. Electives to total 124 semester hours.

Requirements for a Minor in Lighting for Visual Presentation. DEMT 10453, 20283, 40053, THEA 30503 and 40543, and one of the three following courses: DEMT 10413, PSYC 30423-Perception, THEA 40553.

Requirements for interior design majors minoring in Lighting: DEMT 20283, 40053, 40970, THEA 30503, 40543, and PSYC 30423 or THEA 40553.

Requirements for Fashion Merchandising Majors minoring in Lighting: DEMT 10453, 40053, 40970, THEA 30503, 40543 and PSYC 30423 or THEA 40553.

Transfer Policy. Transfer students must present a current transcript and a portfolio, photographs, or slides of their work for evaluation by the department at least one week prior to registration or at a time of advisement in order to determine the appropriate levels of competency.

Senior Show Policy. All interior design majors are required to participate in a group exhibition of student work during their senior year. One exhibition will be held during each spring semester. Students expecting to graduate in May will participate during their final semester. Students whose graduation is expected to be delayed until the following December will participate during the preceding May exhibition.

Retention of Student Work Policy. The Department of Design, Merchandising & Textiles reserves the right to photograph, display, and exhibit student work in order that a continuing "body" of work will be available. This policy applies during the completion of the student's undergraduate degree program and for a period of two years following graduation.

Major: Fashion Merchandising

This program involves all activities related to the development, buying, and selling of merchandise. This major is for the student planning a career in retail buying, product development, management, wholesale or retail sales, public relations, event planning or visual merchandising. A supervised internship is required during the senior year. **Major requirements:** DEMT 10243, 20253, 20273 or 30273, 20283, 30073, 30091, 30233, 30263, 30283, 40013, 40213, 40223, 40233, 40243, 40263, 40286. **Minor requirement:** General Business, Journalism, Speech, Art, Radio-Television-Film, Foreign Language, or other approved minor. Other: University Curriculum Requirements and electives to total 124 semester hours.

Requirements for a Minor in Merchandising and Textiles. A minor consists of 18 hours in including 10243, 20253, 20283 or 40263, and 40213, and 6 other hours approved by the chair of the department.

The following is a complete list of courses offered by this department. Go to Class Search on Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

30003 HONORS TUTORIAL. *Prerequisite: Departmental major and enrollment in the Honors Program.* An examination of a significant issue affecting design, merchandising and/or textiles. The student and faculty directing the study determine the specific topic and presentation format (oral, written, graphic, model, garment prototype, computer simulation).

DEMT 30003 is the first of two courses required for departmental honors. Arrangements for this directed study must be made the semester prior to enrollment in the course.

30073 CAD FOR APPAREL AND INTERIORS. *Prerequisites: DEMT 20283 or 30413, or permission of the instructor.* Two 1-hour lectures, one 2-hour lab per week. Overview and application of AutoCAD and specialized computer software as they relate to design in the apparel and interior industries.

30091 CAREER DEVELOPMENT. *Prerequisites: Majors and minors only, junior standing. Permission of instructor required for minors.* A study in careers, requisite to completion of a directed internship. Particular emphasis on self assessment paralleled to career research, employment resources, and skills in career development, i.e., resume writing, interviews, leadership concepts and effective communication and advancement skills.

40003 SENIOR HONORS PROJECT. *Prerequisite: Departmental major, enrollment in the Honors Program and completion of DEMT 30003.* The execution of a project or paper reflecting creative investigation or research. Supervision by a three-member faculty committee is required. DEMT 40003 must be completed prior to the student's final semester of undergraduate work. May be based on subject matter explored in DEMT 30003.

40013 ENTREPRENEURSHIP IN DESIGN, MERCHANDISING AND TEXTILES. *Prerequisites: DEMT 10243 and minimum junior standing or permission of instructor.* The purpose of this course is to introduce the student to the opportunities, risks and management problems involved in establishing and operating new enterprises specifically related to Design, Merchandising & Textiles.

40053 LIGHTING FOR VISUAL PRESENTATION. *Prerequisites: DEMT 10453, 20283 and THEA 30503 or permission of instructor.* The interrelationship between lighting and merchandising with specific concentration on lighting merchandise as three dimensional form, the use of color in merchandising, and the practical applications of lighting as a merchandising tool. Exploration of the impact that interior design, fashion merchandising, and theater have on the way merchandise is illuminated and displayed.

40093 NEW YORK STUDY PROGRAM. One-week study tour of New York City's textile, apparel and merchandising industries accompanied by two weeks of on-campus study. 40970 SPECIAL PROBLEMS. Hours to be arranged. Special problems requiring independent research and study within a related area, or field experience in design, merchandising and/or textiles. (1-6 semester hours).

Interior Courses:

10413 DESIGN FUNDAMENTALS I. Six studio hours per week. *Prerequisite: Declared major in Interior Design; pre-major or permission.* A design introduction to the traditions and resources of space, form, light and color perception. The elements and principles of design will be used to create two-dimensional representations with freehand sketching, lettering and mechanical drawing.

10423 INTRODUCTION TO INTERIOR DESIGN. An introduction to interior design including the study of cultural, technological and economic influences upon the profession. Topics of study include fundamental design vocabulary and concepts, the historical evolution of interior design and the role of interior design upon the built environment.

10453 LIGHTING FUNDAMENTALS. Two one-hour lectures, one two-hour lab per week. A series of lectures and laboratory experiments through which students will develop both technical and aesthetic understanding of lighting and space. Special emphasis will be on the mechanics of light, types of lighting and the electrical systems that support lighting.

20403 DESIGN FUNDAMENTALS II. Six studio hours per week. *Prerequisite: DEMT 10413, 10423, and 20413 or concurrent.* A continuation of Design Fundamentals I to include color theory and the practice of rendering spaces in color and light. Techniques include pencils and markers.

20413 INTERIOR DESIGN CONCEPTS. *Prerequisites: DEMT 10423 or concurrent.* A studio course exploring the theories and applications of the design of interiors of 2000 square feet or less. Focus is on developing the problem-solving process, which encourages creativity, depth of exploration and solutions with substance and aesthetic beauty. Graphic, written and verbal communication formats are used to express all stages of the design thinking process sequence from concept to final conclusions.

20433 INTERIOR DESIGN ILLUSTRATION. Six studio hours per week. *Prerequisites:* DEMT 20403. Shade and shadows. Interior illustration techniques using plans, elevations and perspectives illustrated in marker, line, tone and color.

20443 INTERIOR DESIGN I. Six studio hours per week. *Prerequisites:* DEMT 10423, 20403, 20413. Development of a functional approach to interior design stressing physiological and psychological design considerations through small-scale commercial projects. Introductory specifications and lighting. Grid one- and two-point design perspectives.

30413 INTERIOR DESIGN II. Six studio hours per week. *Prerequisites:* DEMT 20433 and 20443 with a grade of "C" or higher in the latter. Residential interior space/form problem comprehension and solution with concern for aesthetics, utility and life-styles. Rooms are studied independently as well as relative to each other. Specification, lighting and budget. Mixed illustration techniques.

30423 ARCHITECTURAL COMPONENTS. Six lecture/studio hours per week. *Prerequisite:* DEMT 20443. A study of architectural factors affecting interiors: structural systems, methods of construction, HVAC and electrical systems, cabinet detailing and related building codes.

30433 RENDERING TECHNIQUES. Six studio hours per week. *Prerequisite:* DEMT 20433. Advanced rendering techniques in timed sketches in graphite pencil and marker as well as refined renderings in colored markers and prisma-color pencil. Includes the illustration of human figures in interior spaces.

30453 INTERIOR COMPONENTS. Two lecture hours and two lab hours per week. *Prerequisite:* DEMT 20413. Selection and specification of interior materials and finishes for various design situations. Includes textile characteristics of interior materials, decision making criteria and estimating processes and preparation of finish schedules and specification documents.

30473 HISTORY OF INTERIORS I. *Prerequisites:* DEMT 10423 or permission. History of the style of architecture, interiors, furnishings and decorative arts from the Stone Age to 1900 A.D. The designs of architects, furniture designers and interior designers are examined within the context of social history and cultural influences.

30483 HISTORY OF INTERIORS II. *Prerequisite:* DEMT 30473 or permission. History of the styles of architecture, interiors, furnishings, and decorative arts after 1900 A.D. Includes the influence of technology, industrialization, and various modern movements. The designs of architects and interior designers are examined within the context of social history and cultural influences.

30493 INTERIOR DESIGN III. Six seminar/studio hours per week. *Prerequisites:* DEMT 10453, 30413 with a grade of "C" or higher, DEMT 30473. Development of an aesthetically and functionally based process for the design of commercial interiors. Emphasis on space planning, furniture selection and layout and programming. Includes interior design theory, research and communication of design solutions, design for the physically limited (including the American Disabilities Act) and flammability issues.

40433 SPECIAL PURPOSE DESIGN. Six lecture/studio hours per week. *Prerequisites:* DEMT 40453 and 40464 with a grade of "C" or higher. The design of interiors to serve special purposes or populations. Included will be one project entered in a national student competition.

40453 PROFESSIONAL PRACTICES. Six lecture/field trip hours per week. *Prerequisite:* DEMT 40493. Business practices, management and professional procedures for the interior designer. An examination of the design profession within an economic framework.

40464 INTERIOR DESIGN IV. Six studio hours and two seminar hours per week. *Prerequisites:* DEMT 30423, 30493 with a grade of "C" or higher, DEMT 30453, 30483. Advanced problems in contemporary environments as relevant expressions of technological and cultural change. Includes advanced application of various research methodologies to document design solutions.

40474 INTERIOR DESIGN V. Six studio hours and two seminars per week. *Prerequisite:* DEMT 40464 with a grade of "C" or higher. Large-scale design of specialty space with emphasis on program interpretation, space planning, FF&E (furniture, fixtures and equipment), themed environment and ADA (Americans with Disabilities Act) requirements. Course work may be in conjunction with a professional architectural design firm project and firm professionals.

40493 INTERIOR DESIGN INTERNSHIP. Seminar and work experience hours to be arranged. *Prerequisite:* DEMT 30091 and 30493. Supervised apprenticeship with a professional interior designer or architectural firm. On-the-job experience in an interior design or architectural firm. Students must attend preparatory seminars prior to beginning the internship experience.

Merchandising and Textile Courses:

10243 MERCHANDISING PRINCIPLES. A survey of the fashion industry and the dynamics of fashion theory and principles.

20253 TEXTILE FUNDAMENTALS. Analysis of fibers, yarns, fabrication structures and processing including fabric dyeing, printing and finishing; physical, optical and chemical testing; textile labeling and legislation; and care of textile products.

20273 CLOTHING CONSTRUCTION. Two 1-hour lectures, two 2-hour laboratories per week. Pattern alteration and fitting techniques; basic clothing construction techniques.

20283 PROMOTION PRINCIPLES. *Prerequisites:* DEMT 10243 or permission of instructor. An analysis of non-personal selling including advertising, visual merchandising, publicity, special events and fashion shows. 30203 TAILORING. Two 1-hour lectures, two 2-hour laboratories per week. *Prerequisites:* DEMT 20253 and 20273 or

permission of instructor. Application and comparison of traditional tailoring and couture techniques to contemporary methods.

30213 FASHION DESIGN: DRAFTING. One hour lecture, two 2-hour laboratories per week. *Prerequisite: DEMT 20273 or permission of instructor.* A study of the theories of pattern making, including drafting of original slopers, grading of pattern sizes and design through the flat pattern method.

30223 FASHION DESIGN: DRAPING. One hour lecture, two 2-hour laboratories per week. *Prerequisite: DEMT 20273, 30213 or permission of instructor.* Creative experiences in fashion design through the draping of muslin slopers and original apparel designs on commercial forms.

30233 CLOTHING IN SOCIETY. *Prerequisite: ENGL 20803 and junior status.* An exploration of the sociological, economical, psychological and cultural aspects of apparel and dress.

30263 PRODUCT DEVELOPMENT. *Prerequisite DEMT 20253.* The creative process of product development including market research, aesthetic properties and design components, manufacturing processes, quality and cost analysis

30273 FASHION ILLUSTRATION. *Prerequisites: DEMT 20263 or permission of instructor.* Use of illustration for merchandise development and promotion. Prior drawing experience recommended.

30283 PRINCIPLES OF TEXTILE TESTING AND ANALYSIS. *Prerequisites: DEMT 20253 or 30263, junior or senior classification or permission of instructor.* Two 1-hour lectures, two-2 hour laboratories per week. Emphasis is on testing and analyzing the performance of textile products using industry methods and specifications.

40213 HISTORY OF COSTUME. *Prerequisite: DEMT 30233 or permission of instructor.* The study of the interrelationship of costume with the social, cultural, political and economic environment through the 18th century.

40223 HISTORY OF CONTEMPORARY DRESS. *Prerequisite: DEMT 30233 or permission of instructor.* The study of the interrelationship of costume with the social, cultural, political and economic environment from the 19th century to the present.

40233 MERCHANDISING SALES. Demonstration and sales techniques with emphasis on current trends of motivating and influencing fashion consumers.

40243 INTERNATIONAL TRADE OF TEXTILES AND APPAREL. *Prerequisites: ECON 10223 or 10233, DEMT 10243 and 20253 or permission of instructor.* A study of the economic principles involved in the production, marketing and distribution of textiles and apparel in relation to the global market.

40263 MERCHANDISING: BUYING. *Prerequisite: DEMT 10243 and UCR math.* An analysis of fashion buying. Emphasis on applied mathematical operations to planning and control procedures in various types of retail organizations, buying techniques and merchandise selection.

40286 FASHION INTERNSHIP. *Prerequisites: DEMT 30091, 40213, 40233, 40243 and senior classification; and major.* Minors must obtain permission from instructor. Supervised full-time work experience in a fashion related establishment. Weekly logs and assigned papers will be required.

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Economics

[Requirements for the B.A. degree with a major in Economics](#)
[Requirements for the B.S. degree with a major in Economics](#)
[Requirements for the B.S. degree with a major in International Economics](#)
[Associated Requirements](#)
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[Requirements for Economics as a teaching field](#)
[Honors Program](#)
[Omicron Delta Epsilon](#)
[Courses of Instruction](#)

(ECON)

Available as a major or a minor on the B.A. and B.S. degrees. The B.A. is provided for the student who has a general interest in economics but who does not plan to pursue a graduate degree or a career in Economics. Students who plan a graduate program or a career in Economics should enroll in the B.S. curriculum.

Requirements for the B.A. degree with a major in Economics: 24 semester hours in Economics, 18 of which must be at the 30000 level or above, plus a minimum of 6 semester hours in Associated Requirements. A grade of "C" or better must be attained in any course which is to count as one of the 24 hours in Economics or as one of the Associated Requirements. Specific requirements are as follows:

I. Foundations (12 hours)

ECON 10223 Introductory Microeconomics
ECON 10233 Introductory Macroeconomics
ECON 30223 Intermediate Microeconomics
ECON 30233 Intermediate Macroeconomics

II. Breadth Requirements (6 hours - 3 hours must be chosen from subsection A)

A. Contextual Inquiry

ECON 30413 American Economic History
ECON 40233 History of Economic Thought
ECON 50483 Financial History

B. International Economics

ECON 30213 Development Theory
ECON 30433 Development Studies
ECON 50123 International Trade and Payments
ECON 50133 International Monetary Economics
ECON 50443 International Economic Studies

C. Public Policy Economics

ECON 30133 Labor Economics
ECON 30143 Public Finance
ECON 40153 Economics of Financial Markets
ECON 40463 Regional and Urban Economics
ECON 50423 Regulation of Economic Activity

III. Additional Electives in Economics (6 hours)

Associated Requirements: MATH 10283 or MATH 10524 and MATH 10043 or DESC 20153.

Minor: A minor is required. Any minor approved by AddRan College is acceptable.

No more than six hours from sections II and III should be completed until the student has satisfactorily completed the Foundations (Group I) and the Associated Requirements.

Requirements for the B.S. degree with a major in Economics: 33 semester hours in Economics, 27 of which must be at the 30000 level or above, plus a minimum of 9 semester hours in Associated Requirements. A grade of "C" or better must be attained in any course which is to count as one of the 33 hours in Economics or as one of the Associated Requirements. Specific requirements are as follows:

I. Foundations (15 hours)

ECON 10223 Introductory Microeconomics
ECON 10233 Introductory Macroeconomics
ECON 30223 Intermediate Microeconomics
ECON 30233 Intermediate Macroeconomics

ECON 30313 Research Methods in Economics

II. Breadth Requirements (9 hours - 3 from each subsection)

A. Contextual Inquiry

ECON 30413 American Economic History
 ECON 40233 History of Economic Thought
 ECON 50483 Financial History

B. International Economics

ECON 30213 Development Theory
 ECON 30433 Development Studies
 ECON 50123 International Trade and Payments
 ECON 50133 International Monetary Economics
 ECON 50443 International Economic Studies

C. Public Policy Economics

ECON 30133 Labor Economics
 ECON 30143 Public Finance
 ECON 40153 Economics of Financial Markets
 ECON 40463 Regional and Urban Economics
 ECON 50423 Regulation of Economic Activity

III. Additional Electives in Economics (6 hours)

IV. Capstone Experience (3 hours)

ECON 40013 Senior Seminar in Economics
 ECON 40003 Senior Honors Research Paper

Associated Requirements: MATH 10283 or MATH 10524, MATH 10043 or DESC 20153, COSC 10203 or 10403 or MANA 20253. Math 10043 and MATH 10524 are strongly recommended, but not required, for students pursuing the B.S. degree in economics. In addition, students planning to pursue graduate study in economics are advised to take MATH 20524 and MATH 30224.

Minor: A minor is required. Any minor approved by AddRan College is acceptable.

No more than six hours from sections II and III should be completed until the student has satisfactorily completed the Foundations (Section I) and the Associated Requirements.

Requirements for the B.S. degree with a major in International Economics: 33 semester hours in Economics, 27 of which must be at the 30000 level or above, plus a minimum of 18 semester hours in Associated Requirements and sophomore-level proficiency in a foreign language. A grade of "C" or better must be attained in any course which is to count as one of the 33 hours in Economics or as one of the Associated Requirements. Specific requirements are as follows:

I. Foundations (15 hours)

ECON 10223 Introductory Microeconomics
 ECON 10233 Introductory Macroeconomics
 ECON 30223 Intermediate Microeconomics
 ECON 30233 Intermediate Macroeconomics
 ECON 30313 Research Methods in Economics

II. International Economics (12 hours)

A. Core (6 hours)

ECON 50123 International Trade and Payments
 ECON 50133 International Monetary Economics

B. Electives (6 hours)

ECON 30213 Development Theory
 ECON 30433 Development Studies
 ECON 50443 International Economic Studies

III. Additional Electives in Economics (3 hours)

IV. Capstone Experience (3 hours)

ECON 40013 Senior Seminar in Economics
 ECON 40003 Senior Honors Research Paper

Associated Requirements: (18 hours)

I. Quantitative Skills (6 hours)

MATH 10283 or 10524 (latter recommended)
DESC 20153 or MATH 10043 (latter recommended)

II. International and Comparative Politics (6 hours)

POSC 20303 International Politics
POSC 30303 Topics in International Politics
POSC 30503 Topics in Comparative Politics

III. Language, History, and Culture (6 hours)

Internationally-related courses from ANTH, GEOG, HIST, JOUR, RELI, FINA, MANA, or MARK, or upper-division foreign language, selected with department approval (current list of approved classes available; offerings by other departments may be substituted with permission). Participation in TCU's Study Abroad program may waive three hours of this requirement (with prior approval from the Economics Department).

In addition, students planning to pursue graduate study in economics are advised to take MATH 20524 and MATH 30224.

Minor: A minor is required. Any minor approved by AddRan College is acceptable.

No more than six hours from sections II and III should be completed until the student has satisfactorily completed the Foundations (Section I) and the Associated Requirements.

Requirements for a minor in Economics. 18 semester hours in Economics to be distributed as follows:

ECON 10223 Introductory Microeconomics
ECON 10233 Introductory Macroeconomics
ECON 30223 Intermediate Microeconomics

or

ECON 30233 Intermediate Macroeconomics

Nine additional hours in Economics at the 30000 level or above.

Requirements for Economics as a teaching field. Students seeking certification for teaching Economics at the secondary school level should be advised by the departmental secondary certification advisor. Specific requirements are as follows:

I. Foundations (12 hours)

ECON 10223 Introductory Microeconomics
ECON 10233 Introductory Macroeconomics
ECON 30223 Intermediate Microeconomics
ECON 30233 Intermediate Macroeconomics

II. Breadth Requirements (9 hours - 3 from each subsection):

A. Contextual Inquiry

ECON 30413 American Economic History
ECON 40233 History of Economic Thought

B. International Economics

ECON 50123 International Trade and Payments
ECON 50133 International Monetary Economics

C. Public Policy Economics

ECON 30133 Labor Economics
ECON 30143 Public Finance
ECON 40153 Economics of Financial Markets

III. Electives (3 Additional Advanced Hours in Economics)

Pass/No Credit Option. Courses in the major and minor may be taken on the Pass/No Credit basis.

Honors Program. Economics majors who plan to pursue Departmental Honors must be members of the Honors Program and should enroll in ECON 30003 during their junior year and ECON 40003 during the fall semester of their senior year.

Omicron Delta Epsilon. The Eta of Texas Chapter of Omicron Delta Epsilon is sponsored by the Department of Economics. ODE is the national honor society in Economics.

The following is a complete list of courses offered by this department. Go to Class Search on the Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

10223 INTRODUCTORY MICROECONOMICS. Overview of economics, introduction to microeconomic theory and policy; demand, supply, price determination in product and factor markets, principle of comparative advantage, concept of economic efficiency, perfect and imperfect competition.

10233 INTRODUCTORY MACROECONOMICS. *Prerequisite: ECON 10223.* Introduction to macroeconomic theory and policy; measurement of economic aggregates, inflation, unemployment, business cycles, fiscal and monetary policies, economic growth, exchange rates, balance of payments, and financial capital flows.

10241 LABORATORY IN MICROECONOMICS. *Prerequisite: Concurrent registration in, or completion of, ECON 10223.* Use of computer simulations, games, and formal exercises to build on, and to reinforce, concepts and procedures covered in ECON 10223.

10251 LABORATORY IN MACROECONOMICS. *Prerequisite: Concurrent registration in, or completion of, ECON 10233.* Use of computer simulations, games, and formal exercises to build on, and to reinforce, concepts and procedures covered in ECON 10233.

10533 FRESHMAN SEMINAR IN ECONOMICS: ECONOMICS AND CONTEMPORARY ISSUES. Discussion of economic topics of current interest for students with little or no background in economics. Among the topics that might be covered are the economics of higher education, crime, pollution, health, poverty, unemployment, and inflation. (Cannot count toward major in Economics.)

30003 JUNIOR HONORS SEMINAR. *Prerequisite: Advanced standing in Economics and recommendation of the Chairman.* Discussion of important books in the literature of economics and of significant economic problems.

30133 LABOR ECONOMICS. *Prerequisites: ECON 10223 and 10233.* Economic analysis of labor market issues, including minimum wage legislation, compensating wage differentials, human capital investment, discrimination, and collective bargaining.

30143 PUBLIC FINANCE. *Prerequisites: ECON 10223 and 10233.* Theory of public choice; budgeting procedures; theory and methods of financing government expenditures; fiscal policy.

30213 DEVELOPMENT THEORY. *Prerequisites: ECON 10223 and 10233.* An analysis of the changes that must take place in a society in order for economic development to proceed. Economic theories of development and growth.

30223 INTERMEDIATE MICROECONOMICS. *Prerequisites: ECON 10223 and 10233, MATH 10283 or MATH 10524.* Details of allocation and distribution theory of market economies. Explanations of product and factor market activities. Elements of partial and general equilibrium theories.

30233 INTERMEDIATE MACROECONOMICS. *Prerequisites: ECON 10223 and 10233.* Employment, monetary theory, aggregate demand and supply theory, economic performance and tools of measurement.

30313 RESEARCH METHODS IN ECONOMICS. *Prerequisites: ECON 10223 and 10233, DESC 20153 or MATH 10043.* Applications of statistical techniques in research. Includes methods of literature search, proposal writing, computer-based statistical programs, preparation of research reports.

30413 AMERICAN ECONOMIC HISTORY. *Prerequisites: ECON 10223 and 10233.* Developments in agriculture, industry, commerce, transportation, labor, and finance in the United States.

30423 INTRODUCTION TO SECURITY ANALYSIS. *Prerequisite: ECON 10223 and 10233; ACCT 20153 recommended.* Survey of financial markets including their historical evolution, their relation to the macroeconomy, economic influences on prices of financial assets, government policies, and basic portfolio management.

30433 DEVELOPMENT STUDIES. *Prerequisites: ECON 10223 and 10233.* Survey of development experience in a country or group of countries or analysis of general development experiences such as external finance, foreign trade and payments, development policy sets, or other experiences typical of developing countries.

40003 SENIOR HONORS RESEARCH PAPER. *Prerequisites: ECON 30003 with recommendation of the Department.* Each student will prepare a substantial paper under the direction of a faculty member.

40013 SENIOR SEMINAR IN ECONOMICS. *Prerequisites: Senior standing and 21 semester hours in Economics, including successful completion of the Foundations requirements.* Capstone seminar exploring selected issues in economic theory or policy.

40153 ECONOMICS OF FINANCIAL MARKETS. *Prerequisites: ECON 10223 and 10233.* Analysis of the structure and operations of financial markets and analysis of the role of money and capital markets in the economy.

40233 HISTORY OF ECONOMIC THOUGHT. *Prerequisites: ECON 10223 and 10233.* The study of economic ideas. May include the ideas of any major contributor from Adam Smith to contemporary economists.

40463 REGIONAL AND URBAN ECONOMICS. *Prerequisites: ECON 10223 and 10233.* An introduction to, and overview of, regional and urban economic theory. Examination of location factors and costs including transportation rate structures, migration, firm location, structure of regions and urban areas, and urban problems.

40970 EXPERIMENTAL COURSES. *Prerequisites: Vary according to nature of material.* For use when instructor has new material or new teaching strategies which are not appropriate to existing courses.

50113 INDUSTRIAL ORGANIZATION. *Prerequisites: ECON 30223 or graduate standing in economics or business.* Theoretical and empirical examination of the interrelationships between market structure, conduct and performance in the industrial sector of the economy.

50123 INTERNATIONAL TRADE AND PAYMENTS. *Prerequisites: ECON 10223 and 10233 or graduate standing in business.* Surveys of international trade relationships, balance of payments accounting, theories explaining the pattern of trade and its relationship to economic welfare, policies affecting the pattern of a country's trade with the rest of the world.

50133 INTERNATIONAL MONETARY ECONOMICS. *Prerequisites: ECON 10223 and 10233 or graduate standing in business.* Surveys of various theories of exchange rate determination, along with evaluation of fixed, flexible and mixed exchange rate regimes. In addition, long-term and short-term capital flows are described and explained.

50343 ECONOMETRICS. *Prerequisites: ECON 10223 and 10233 and either MATH 10043 or DESC 20153, or graduate standing in business.* Techniques of simple and multiple regression. Methods for correcting problems of autocorrelation, heteroskedasticity, and multicollinearity.

50353 MODELING AND SIMULATION. *Prerequisites: DESC 20153 or Econometrics, computer experience or permission of instructor.* An analysis of systems and modeling techniques. The application of such techniques to economic systems. The study of regional economic models and their use in public policy design.

50413 INDUSTRY STUDIES. *Prerequisites: ECON 30223 or graduate standing in economics or business.* Study of the market structure, conduct and performance of American industries using a case study approach.

50423 REGULATION OF ECONOMIC ACTIVITY. *Prerequisite: ECON 30223 or graduate standing in business.* Public policy relative to commercial and industrial enterprise. Federal agency regulation. Emphasis on industrial and market concentration, competition and monopoly, public utilities, consumer protection and environmental pollution and control policies.

50443 INTERNATIONAL ECONOMIC STUDIES. *Prerequisites: At least nine (9) semester hours credit in economics or graduate standing in business.* Detailed analysis of current problems in international economic relationships. The list of topics selected on the basis of their significance in policy design, policy analysis, or contemporary economic well-being.

50453 MACROECONOMIC STUDIES. *Prerequisites: ECON 30233 or graduate standing in business.* Analysis of current macroeconomic issues in theory and policy. Topics may include economic growth, fluctuations in business activity, investment behavior, consumption functions, macroeconomic planning, and the policy formulation process.

50463 REGIONAL ECONOMIC DEVELOPMENT. *Prerequisites: ECON 30223 or graduate standing in business.* Theoretical and empirical examination of regional economic development. Topics may include regional economic resources, development potential, factors affecting industrial location, planning and organization of industrial development, spatial aspects of poverty and urban problems, and methods of regional analysis.

50473 SEMINAR IN FINANCIAL ECONOMICS. *Prerequisite: ECON 30423 or graduate standing in economics or business.* Analysis of significant contributions to the literature on investment. Portfolio selection and management giving attention to fundamentalist technical and cyclical approaches.

50483 FINANCIAL HISTORY. *Prerequisites: ECON 10223 and ECON 10233 or graduate standing in economics or business.* Examines important topics in the development of American and Western European monetary and financial systems. Historical perspectives on innovation, stabilization, and regulation within the major themes of monetary regimes, banking systems, and capital markets.

50970 DIRECTED STUDIES IN ECONOMICS. *Prerequisites: 12 hours in economics and senior or graduate standing.* Supervised reading, research, and preparation of a substantial paper.

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Geography

(GEOG)

Requirements for a minor in Geography. Eighteen semester hours, including GEOG 10003, GEOG 20013, GEOG 30503, GEOG 30703, and GEOL 10113, 10143, or 30113. GEOG 30503 or GEOG 30703 must be repeated for credit as the specified region or topic changes. GEOG 40016 may substitute for the repeated GEOG 30503 or GEOG 30703. No grade lower than "C" can be applied to the minor.

The following is a complete list of courses offered by this department. Go to Class Search on the Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

10003 WORLD REGIONAL GEOGRAPHY. A survey of the world's primary regions and the human and physical geography that shape them. Interactions between natural environment, cultural geography, geopolitics, history, land use, and economic geography are highlighted

20013 HUMAN GEOGRAPHY. The systematic subdivisions of human geography are surveyed, including urban, political, economic, historical, agricultural, and population geography. Within each subdiscipline, applications of geographic concepts and processes are emphasized.

30503 TOPICS IN REGIONAL GEOGRAPHY. An analysis of the human and physical geography of a specific region. Examples of regions include Latin America, United States, Texas, Sub-Saharan Africa, and Western Europe. Regional characteristics investigated may include economic, political, historical, and cultural components as well as topography, climate, and natural resources. May be repeated for credit provided the specified region changes.

30703 TOPICS IN SYSTEMATIC GEOGRAPHY. Concepts, principles, patterns, and processes associated with a specific subdiscipline in geography. Examples of topics include Urban Geography, Cultural Geography, Geopolitics, Historical Geography, and Physical Geography. May be repeated for credit provided the specified subdiscipline changes.

40016 SUMMER FIELD STUDIES IN GEOGRAPHY. An intensive field study in the regional and systematic geography of a selected area. Examples include France, Central America, and the American West. May be repeated for credit provided the selected area changes. Students planning to enroll should contact the Coordinator of Geography by March 1 of the year in which enrollment is contemplated.

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History

[Courses of Instruction](#)

(HIST)

Available as a major on the B.A. degree and as a minor on the B.A. and B.S. degrees.

Requirements for the B.A. degree with a major in History. 27 semester hours which will include HIST 10003, 10013 and 9 additional hours dealing with areas outside the Western Hemisphere, 6 of which must be in courses numbered 30000 or above; and 12 hours selected from courses dealing with the Western Hemisphere, 6 of which must be numbered 30000 or above. Students who complete the Honors Intellectual Traditions track (HHIT 10113, 20123, 20123) are exempted from HIST 10013 but must take HIST 10003 for the history major. In this Bulletin, courses dealing with the Western Hemisphere are marked (WH); Non Western Hemisphere courses are marked (NWH). Some courses may count in either category.

Requirements for a minor in History. 18 hours distributed as follows: 9 hours selected from courses dealing with the Western Hemisphere and 9 hours from courses dealing with areas outside the Western Hemisphere. (HIST 10003-10013 and HIST 10603-10613 are recommended, but are not required.) 6 hours must be 30000 or above.

Requirements for Secondary Certification. 24 semester hours which will include HIST 10003 and 10013, HIST 10603 and 10613 or 10903 and 10913, HIST 40743, and 9 semester hours at the 30000 level or above (with a maximum of 6 hours in either WH or NWH).

Honors Program. History majors who plan to pursue Departmental Honors must be members of the Honors Program and should enroll in HIST 30153 during their junior year and HIST 40103 during the fall semester of their senior year.

Honor Society. The Department of History sponsors the Eta Kappa Chapter of Phi Alpha Theta, national honor society in the discipline of history.

Pass/No Credit Option. Courses to be applied to the major or minor may not be taken on the Pass/No Credit basis.

The following is a complete list of courses offered by this department. Go to Class Search on the Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

10003 HISTORY OF CIVILIZATION. (See the topical treatment listed below.) This course provides an introduction to all the social sciences. It is required of all history majors. Note that the emphasis and focus of the course differ depending on the topic specified in the subheading. The student may select whatever topic he wishes, but the course may not be repeated for credit.

10003 HISTORY OF CIVILIZATION: A SURVEY TO 1500. Examination of the developments of the foundation pillars of western civilization. Topics include the rise of civilization in the Near East, ancient Greece and Rome, the rise of Christianity, the impact of the Germanic invasions, Europe in the High Middle Ages, the Renaissance, the beginnings of overseas expansion. (NWH)

10003 HISTORY OF CIVILIZATION: GREAT FIGURES IN WORLD HISTORY TO 1500. The role of the individual in shaping the course of man's history. Outstanding men and women are examined as to their personalities, motivations, contributions, and as a reflection of the values and life styles of their own areas. Some of the figures treated are: The Egyptian Pharaoh Ikhnoton, Socrates, Pericles, Alexander the Great, Caesar, Cleopatra, Jesus Christ, Charlemagne, Henry II, and St. Francis of Assisi. (NWH)

10013 HISTORY OF CIVILIZATION. (See the topical treatments listed below) The student may select whatever topic he wishes, but the course may not be repeated for credit. (NWH)

10013 HISTORY OF CIVILIZATION: A SURVEY FROM 1500 TO THE PRESENT. The development of European society from the Reformation to the twentieth century. Topics include the Protestant and Catholic Reformations, cultural encounters with the New World, the rise of absolutism, the Enlightenment and democratic revolutions, industrialization, the emergence of liberalism, capitalism and socialism, and the two world wars. (NWH)

10013 HISTORY OF CIVILIZATION: GREAT FIGURES IN WORLD HISTORY FROM 1500 TO THE PRESENT. Introduction to history through a study of the prominent individuals who have helped shape the course of world events. Each figure will be treated in detail as an individual, but will also be associated with, and shown as, a reflection of the age in which he or she lived. Included will be such individuals as Luther, Elizabeth I, Napoleon, Hitler, Stalin, and Mao Tse-tung. (NWH)

10603 UNITED STATES HISTORY: A SURVEY TO 1877. Review of evolution of the American nation from the discovery of the New World to the end of the Civil War era, with emphasis on major forces shaping its development. (WH)

10613 UNITED STATES HISTORY: A SURVEY SINCE 1877. Review of the emergence of the American nation through the transitional crises of the past hundred years, with emphasis on the roots of movements persisting into the modern period. (WH)

10903-10913 ETHNIC ELEMENTS OF AMERICAN HISTORY. Comprehensive survey of the Old World antecedents, migrations, and socioeconomic contributions of the various ethnic groups comprising the American nation - Indians, Africans, Iberians, French, Dutch, English, Scots, Irish, German, Italians, Scandinavians, Eastern Europeans, Mexicans, and Asians - with emphasis on the continuing quest for identity, assimilation, and acculturation in the 20th century. (WH) Note: Credit will not be awarded for both 10603 and 10903 or for both 10613 and 10913.

10923 LATIN AMERICAN HISTORY: COLONIAL PERIOD. Hispanic and native backgrounds of the Spanish Conquest; a description and analysis of the evolution of colonial institutions; the independence movements in Hispanic America. (WH)

10933 LATIN AMERICAN HISTORY: NATIONAL PERIOD. The colonial inheritances which influenced national development; political and economic trends of the nineteenth century; revolutionary trends in the twentieth century; inter-American relations. (WH)

CLASSICAL STUDIES: THE ANCIENT WORLD

30003 THE GREEK WORLD. Archaeological and cultural survey from pre-Greek beginnings to the Roman conquest of Greece. Emphasis on discovery of the Minoan and Mycenaean world, the origins of Greek civilization, life in the Greek city-state, the Greek world view, and the conquests of Alexander the Great. (NWH)

30013 THE ROMAN REPUBLIC AND EMPIRE. Archaeological and cultural survey of the Roman world from its origins to the barbarian invasions. Emphasis on the origins of Rome, Roman imperialism and its impact on the Roman way of life, the Roman Revolution, the political absolutism of the empire, the historical Jesus and Christianity in the Roman context, and the decline and fall of the Roman Empire. (NWH)

30023 ANCIENT EGYPT AND THE NEAR EAST. Archaeological and cultural survey of the ancient civilizations of Egypt and the Near East. Visual presentation of archaeological evidence is emphasized along with the origins of civilization, the life and death of civilization, comparison of different values and world views, the origin of monotheism, and the rise and decline of the Assyrian and Persian empire. (NWH)

30033 ANCIENT MYSTERIES: SENSE AND NONSENSE. A survey of ancient Mediterranean and Near Eastern history from the Paleolithic Age to the Fall of Rome, including ancient Mesopotamia, Egypt, the Levant, Greece and Rome. The course examines in a scholarly manner various topics from this period to show the history of the interest and expose common misinformation. Typical mysteries considered are the fall of Rome, the historical Jesus, the pyramids, Biblical events, the Neanderthal problem, the search for the Trojan War. (NWH)

THE MIDDLE AGES

30133 THE MIDDLE AGES. A political and cultural survey of medieval civilization in the period A.D. 500-450. Topics of emphasis include the reign of Charlemagne, early Byzantine and Islamic civilization, feudalism and the code of chivalry, the manorial economy, the crusades, the conflict of state and church, the rise of towns and universities, the Hundred Years' War, and the Black Death. (NWH)

EARLY MODERN EUROPE

30203 THE RENAISSANCE. The political, social and cultural development of Europe from 1300 to 1517. Topics include the Black Death and its impact, politics and culture in the city-states, the social and economic bases of Renaissance society, the Renaissance in Northern Europe. (NWH)

30213 THE REFORMATION. Europe in the 16th century. Topics include the Protestant and Catholic Reformations, 16th century monarchies, early modern society and popular culture, witchcraft, the impact of European expansion overseas. (NWH)

30223 THE SEVENTEENTH CENTURY. Europe in crisis? Topics include civil wars, social and religious instability, absolutism, the debate over the crisis of the seventeenth century. (NWH)

30233 ENLIGHTENMENT EUROPE. A new world in Europe. Topics include the spread of the Enlightenment, the role of intellectuals, social and political changes, challenges to the old order, the coming and impact of the American and French Revolutions. (NWH)

30243 HISTORY OF SPAIN AND PORTUGAL TO 1830. An examination of Iberian culture, interpreting the present in terms of past developments, emphasizing the values and beliefs reflected in literature, art, and philosophy through the centuries, and analyzing the impact of values and beliefs upon the social stratification system and politico-economic institutions. (NWH)

MODERN EUROPE

30303 THE AGE OF GREAT TRANSFORMATION: EUROPE, 1815-1870. The nineteenth century ushered in the industrial age in Europe and the modern consumer society. This course will examine the economic, social, and political change that came with the process of industrialization. Topics include: workers, women, socialism, revolution, nationalism and unification, and imperialism.. (NWH)

30313 THE END OF AN ERA: EUROPE, 1870-1918. World War I marked the end of the long nineteenth century. This course will examine the events leading up to the war and the social, economic, and political impact of the war. Topics include: the Belle Epoque, the suffrage movement, unification, imperialism, and the immediate

postwar world. (NWH)

30323 PEACE OR PAUSE?: EUROPE, 1919-1945. World War II was the second global conflict in two generations. This course will examine the events of the interwar years that precipitated World War II and the war's impact on Europe. Topics include: the Treaty of Versailles, the Great Depression, the rise of fascism and its national variations, and Resistance. (NWH)

30333 A WHOLE NEW WORLD: EUROPE SINCE 1945. World War II left Europe in ruins. This course will examine Europe's recovery from the war and its position in the post war world. Topics include: the "economic miracle," the Cold War and its impact, decolonization and the European Union. (NWH)

30343 THE FRENCH REVOLUTION: from Subjects to Citizens. The 1789 French Revolution marked a watershed in modern world history. This course examines events from 1750 to 1815, exploring the origins of the Revolution, the shifts in the 1790s from constitutional monarchy to the Terror's radical republicanism to Napoleon's dictatorship. Topics include: the emergence of new ideas and new media; the roles of writers, working people, and women; the involvement of other countries, including America; the long term political and social consequences; historians; interpretations of the Revolution.. (NWH)

30353 FRANCE 1815 TO THE PRESENT: The Quest for the Republic. France has had a revolution, a civil war, and four republics since 1815. This course will examine the role of revolution, civil war and the women and men involved in France's evolution as a republic. Topics include the 1848 Revolution, the Paris Commune, the World Wars, and Vichy, and political and social change. (NWH)

30363 MODERN GERMANY, 1815 TO THE PRESENT. Traces the political, diplomatic, military, economic, and social events in Germany in the period. Topics include the impact of the French Revolution and Napoleon, the rise of nationalism, the social impact of industrialization, political unification under Bismarck, the two world wars and their effects on Germany, the division of Germany following World War II and its reunification. Includes recent developments in the Federal Republic. (NWH)

30373 EUROPEAN THOUGHT AND CULTURE, 1800 TO THE PRESENT. Traces European thought and culture in the nineteenth and twentieth centuries. Topics include nationalism, industrialism, romanticism, naturalism, socialism, the search for place, and the rise of fascism. Includes key developments in literature and the arts. (NWH)

30403 HISTORY OF RUSSIA TO 1861. The evolution of the early Russian state and its development under the Grand Princes and Czars to the emancipation of the serfs. Emphasis on the institutions, literature, religion, personalities, and cultural developments as well as major political events. (NWH)

30413 HISTORY OF RUSSIA FROM 1861 TO THE PRESENT. The forces and personalities that molded modern Russia after the emancipation of the serfs, the revolutionary movements and their leaders, and the economic and political factors that brought the downfall of the czarist regime. Special attention to the Marxist-Leninist doctrine and the Soviet attempt to implement it, Stalinism, the emergence of rival communist states, and the post-Stalin era. (NWH)

30423 CENTRAL EUROPE SINCE 1700. The nationalist rivalries that led to Sarajevo, the cultural and economic conflicts that kept the Balkans divided, the problems faced by the region in the period following the First World War. Special attention to the struggle of the Czechs and the Poles to maintain their national existence despite threats from Hitler and Stalin. The effects of World War II on the region. (NWH)

30433 HISTORY OF CHINA AND JAPAN FROM EARLIEST TIMES TO THE 19TH CENTURY. The underlying foundations of Chinese and Japanese culture, emphasizing especially the values, religious, and personalities as well as the political and social institutions in the region. Attention to similarities and differences that characterize the peoples of East Asia. (NWH)

30443 HISTORY OF CHINA FROM 1800 TO THE PRESENT. Nineteenth and twentieth century Chinese history emphasizing intellectual, political, diplomatic and social dimensions that led to the collapse of the Ch'ing dynasty, the birth of the Republic of China and the Chinese Communist creation of the People's Republic. (NW).

30453 HISTORY OF JAPAN FROM 1800 TO THE PRESENT. Nineteenth and twentieth century Japanese history emphasizing intellectual, political, diplomatic and social dimensions that led to the nineteenth-century Meiji Restoration, Japanese expansion, tensions leading to World War II, and Japan's enormous post-war economic growth. (NW).

ENGLAND AND THE BRITISH EMPIRE

30503 HISTORY OF ENGLAND TO 1603. A survey of British history from pre-Roman times to the death of Elizabeth, emphasizing the constitutional, political, social, cultural, and economic developments. Special stress on the evolution of institutions and ideas which America and England share. (NWH)

30513 HISTORY OF ENGLAND AND GREAT BRITAIN SINCE 1603. A survey of the revolutionary developments in the seventeenth and eighteenth centuries which brought the development of parliamentary government, social and political reform movements of the nineteenth and twentieth centuries, the transformation from Empire to Commonwealth, and the emergence of the welfare state. Britain's role as a world power will be examined and special emphasis will be given to the diplomatic developments that led to the two world wars. (NWH)

30523 TUDOR-STUART ENGLAND, 1485-1714. Tudor-Stuart kings and their parliaments, emphasizing the English Reformation, the Elizabethan Age, the Puritan Revolution and Oliver Cromwell, the Restoration and the Glorious Revolution, and the rise of cabinet-political parties-civil rights struggles. (NWH)

30533 ENGLAND 1815-1901, POLITICS, PRUDERY, AND THE PAX BRITANNICA. An examination of the political, social and imperial themes in English history for the period 1815-1901, with emphasis on the impact of the

Industrial Revolution, the new social order, demands for political reform, and the growth of British imperial power. (NWH)

30543 TWENTIETH-CENTURY BRITAIN, EMPIRE TO WELFARE STATE: 1901 TO THE PRESENT. The major political, economic, imperial and intellectual developments of the period. Also discussed will be reforms, the rise of labor, and the impact of the two world wars. (NWH)

30563 THE BRITISH EMPIRE, 1603-1857. Examination of the empire-building experience of Great Britain in the early modern period beginning with its experiences in Ireland, North America, and the Caribbean. Particular emphasis will be given to motivation, cultural collision, and the evolution of systems of control and administration. For the period following the American Revolution, the course will examine the development of new patterns of empire that emerge from the interplay of exploration, the missionary movement, the Napoleonic Wars and technological change. (NWH)

30573 BRITISH EMPIRE AND COMMONWEALTH, 1857-1975. Examination of the British Empire from its high-point in the second half of the Nineteenth Century to its dissolution after 1945. Particular attention will be given to the so-called "New Imperialism" and the scramble for African and Pacific territories, the place of empire in Victorian culture, the informal empire of economic investment, the impact of World War I on the imperial system, and the role of nationalism in the empire's eventual dissolution. The course will also introduce the theoretical arguments concerning the nature and function of the British Empire and its role in shaping the post-colonial world. (NWH)

LATIN AMERICA

30923 THE UNITED STATES AND LATIN AMERICA. Early diplomatic relations among the independent republic; the Monroe Doctrine in Hemispheric politics; the movement for Pan American union; the Big Stick and Dollar Diplomacy; the Good Neighbor Policy and the Alliance for Progress. (WH)

30933 REVOLUTION IN LATIN AMERICA. Survey and analysis of revolutionary movements in modern Latin America, with special emphasis on Argentina, Brazil, Chile, Cuba, Mexico, and Central America. (WH)

30943 THE SPANISH BORDERLANDS. The clashing and mingling of cultures in regions formerly held by Spain in the southeastern and southwestern United States. (WH)

30953 HISTORY OF ARGENTINA AND CHILE. Southern South America from colonial times to the present; a comparison of the colonial experiences of both countries and their impact on national development; problems of modernization and the movements of social revolution. (WH)

30963 HISTORY OF BRAZIL. The growth of the Brazilian nations and civilization from colonial plantation beginnings through experiments with monarch and republic, to the rank of major nation. (WH)

30983 AZTECS, INCAS, AND MAYAS: THE INDIANS OF MIDDLE AND SOUTH AMERICA. Investigation and analysis of the Indian Civilizations of Mexico, the Caribbean Region, Central and South America with particular emphasis on the Mayas, Aztecs, and Incas. Also discussed will be the impact of European culture on the native population and the contemporary problem of integrating the Indian into modern society. (WH)

30993 HISTORY OF MEXICO. The native peoples, the Spanish Conquest and cultural conflict, evolution of colonial society, the movement for independence, 19th century efforts at modernization, revolutionary Mexico and U.S.-Mexican relations. (WH)

PERIOD STUDIES IN U.S. HISTORY

40603 COLONIAL AMERICA: FROM THE AGE OF DISCOVERY TO 1763. Examination of the political, ideological, religious, social, economic and institutional development of colonial America from the earliest discoveries and settlements to the end of the French and Indian War in 1763. Emphasis is on the English colonies that became the United States with some consideration given to other empires. (WH)

40613 REVOLUTIONARY AMERICA, 1763-1789. Introduces the origins of the revolutionary movement; analyzes the social, economic, political and diplomatic consequences of independence from Great Britain; and examines the emerging political and constitutional order of the postwar years. (WH)

40623 THE AGE OF JEFFERSON, 1789-1828. The period of the "Virginia Dynasty," with emphasis on the shaping of Jeffersonian ideals and the rise of the national spirit after the War of 1812. (WH)

40633 THE AGE OF JACKSON, 1829-1860. The period of "Manifest Destiny," with special attention to the developing antagonisms between North and South before, during and after the War with Mexico. (WH)

40643 CIVIL WAR AND RECONSTRUCTION, 1861-1876. The Civil War and slow recovery from the effects of conflict. (WH)

40653 THE PROGRESSIVE PERIOD IN AMERICAN HISTORY, 1877-1919. The rise of industrial America, including reform movements, and the transformation of rural society in the half-century between the administrations of U. S. Grant and Woodrow Wilson. (WH)

40663 AMERICA BETWEEN WORLD WARS, 1919-1941. Detailed analysis of political scandals, prohibition, immigration, labor, women's rights, and the Great Depression, with emphasis on the response of the New Deal to these problems. (WH)

40673 THE UNITED STATES FROM 1941 TO 1975. Domestic and foreign policies of the starting with entry into World War II through 1975. Special attention to social, cultural, and ideological development. (WH)

TOPICAL STUDIES IN U.S. HISTORY

20763 U.S. MILITARY HISTORY. Traces the role of the armed forces in American society through a study of the origins and developments of military institutions, traditions, and practices. Traces principal wars, including their causes, course, and effects, and treats the effects of leadership and new technologies. (WH)

40683 FOUNDATIONS OF AMERICAN FOREIGN POLICY: FROM COLONY TO EMPIRE. An interpretive review of diplomatic relations with Europe, Latin America, and the Orient from the Declaration of Independence to the First World War. (WH)

40693 THE UNITED STATES AS A GREAT POWER: ITS FOREIGN POLICY FROM WORLD WAR I TO THE PRESENT. Major international involvements of the United States since the emergence of the nation as a global power at the turn of the century. (WH)

40703 INDIANS OF THE UNITED STATES. A survey of Native American history, organized chronologically beginning with native origin stories and scientific theories and ending with present issues of urbanization, self-determination, and the political economy of bingo. (WH)

40713 INDIANS OF THE GREATER SOUTHWEST. The major Indian tribes of the cultural area comprising the southwestern United States and the northern states of Mexico. (WH)

40723 THE EARLY AMERICAN FRONTIER. Topical study of the westward movement from the Atlantic seaboard to the Appalachians, and the Mississippi Valley, with emphasis on America's emerging institutions in a pioneer environment. (WH)

40733 THE AMERICAN WEST. Topical study of Plains Indians, Spaniards, mountain men, miners, railroad and cattle barons, cowboys, Mormons, soldiers, and pioneer farmers in the Trans-Mississippi domain of the United States. (WH)

40743 HISTORY OF TEXAS. The political, social, and economic study of Texas from the coming of the Spaniards in 1528 to the present. The role of ethnic groups in the development of Texas is emphasized, and a study of the state constitution is made. (WH)

40763 THE OLD SOUTH. How and why antebellum Southerners differed from Northerners (and many other folk). Lectures and discussions focus on the cultural heritage of the South, the social life of Southerners before the American Civil War, the survival of European and African traditions, immigration and settlement patterns, herding, slavery, plantation life, sectionalism, various southern ways and values, and some of the myths about the Old South. (WH)

40783 CONSTITUTIONAL HISTORY OF THE UNITED STATES. The historical background and impact of judicial decisions that have changed and directed the economic, social, political, and legal patterns of federal and state governments as well as other human institutions. Includes a detailed analysis of majority and minority opinions in leading Supreme Court cases. (WH)

40793 BUSINESS IN AMERICAN LIFE. Survey, development and structure of the American economy and business enterprise in response to changing markets and technology. (WH)

40803 HISTORY OF MEDICINE AND PUBLIC HEALTH. An examination of medicine and public health in the United States with emphasis on social and cultural factors. (WH)

40823 THE NEW SOUTH, 1877-PRESENT. An examination of the political, economic and cultural factors in the South with emphasis on the modern period. (WH)

40833 THE AMERICAN PRESIDENCY: WASHINGTON TO WATERGATE. The development of the presidency of the United States from its historic traditions to its modern role. The administrations of twelve of the most significant presidents will be examined. (WH)

40843 THE VIETNAM WAR. Traces the history of pre-European Vietnam, French conquest, Indo-China War, roots of US involvement, Vietnam War and US domestic developments, and events in post-1975 Socialist Republic of Vietnam. (NWH or WH)

HONORS AND PRE-HONORS COURSES

20003 HONORS WESTERN CIVILIZATION TO 1500.* *Prerequisite: Membership in the Honors Program.* In the first semester of the western civilization track, students examine a) the cultural frameworks and development of ideas about human nature; b) the political structures; c) the social and economic patterns as they evolved in the first civilizations of the near east and the creation of civilization in Europe. As the same issues are examined in the Greco-Roman world, in the Middle Ages and in the Renaissance, students analyze the development of a world-view that is peculiar to the West and its Judeo-Christian heritage. Extensive analysis through discussion and writing.

20013 HONORS WESTERN CIVILIZATION FROM 1500.* *Prerequisite: Membership in the Honors Program.* In the second semester of the western civilization track, students continue to examine the distinctive development of the West. Problems include the Reformations, the rise of capitalism, the causes and consequences of European expansion and its subsequent encounters with Africa, Asia and the Americas, industrialism, the rise of new political philosophies in the wake of democratic revolutions including liberalism and socialism, the challenges posed to those ideas by the ideas and experiences of the twentieth century. Extensive analysis through discussion and writing.

30153 JUNIOR HONORS TUTORIAL. *Prerequisite: Junior standing as a history major and membership in the Honors Program.* An examination of a major issue in history. This course is only offered as a tutorial and the specific

topic is determined by consultation with an instructor. Arrangements for this course must be made with an instructor the semester prior to enrollment. (NWH or WH)

HIST 40103 SENIOR HONORS PROJECT. *Prerequisite: Departmental major, enrollment in the Honors Program, and completion of HIST 30153.* The execution of a project or paper reflecting creative investigation or research. Supervision by a three-member faculty committee is required. HIST 40103 must be completed prior to the student's final semester of undergraduate work. May be based on subject matter explored in HIST 30153. (NWH or WH)

TOPICAL STUDIES IN HISTORY

(Area selected by student)

30970 TOPICAL STUDIES IN HISTORY. Courses dealing with problems and historical questions in a particular area of specialization. The topics will be changed from semester to semester and the course may be repeated when the topic is different. (3 hours) (NWH or WH)

40003 THE WOMEN'S MOVEMENT IN ENGLAND AND AMERICA, 1792-1972. A survey and analysis of women's role in modern history with special emphasis on monarchs, scholars, laborers, and political activists. (NWH)

40013 HISTORY OF WAR. The causes, course and effects of war from ancient times to the present. Major changes in the technology and nature of war will also be discussed. (NWH)

40023 WOMEN IN THE WESTERN WORLD SINCE 1500. A broad survey of women's experiences and roles in Western society in the last 500 years. Topics include the Reformations, witchcraft, urban and rural women, the Revolutionary era, industrialization, and World Wars. (NWH)

40033 WITCHES, WORKERS AND WIVES. Women and family in early modern Europe and America. (W or NW).

50970 SPECIAL STUDIES IN HISTORY. (NWH or WH)

PROFESSIONAL COURSES FOR ARCHIVISTS AND SPECIALISTS

30063 INTRODUCTION TO HISTORICAL RESEARCH. An introduction to the techniques of historical methodology with emphasis on the role of documents and other historical artifacts, the preparation and writing of historical papers. *Prerequisite: Junior standing as a History major (minimum of 12 hours of history) or consent of department chairman.* (NWH or WH)

50070 HISTORY, ADMINISTRATION, AND MANAGEMENT OF ARCHIVES, I AND II. The historical development of archival institutions, procedures and techniques with special emphasis on American federal, state and local records, both public and private. Students will be introduced to professional field work in the archives of the participating institutions. (6 hours) (WH)

50080 ARCHIVAL INTERNSHIP. *Prerequisite: History 50070 or concurrent enrollment.* Supervised professional training at the Federal Archives and Records Center of Fort Worth, the Regional State Archives of Texas, the Amon Carter Library, and the Manuscript collection of TCU. (6 hours) (WH)

50933 PHILOSOPHY OF HISTORY (PHIL 50933). *Prerequisite: 6 hours history, 3 hours philosophy.* A philosophical analysis of historiography; the logical, conceptual and epistemological characterization of what historians do. Also includes a study of traditional attempts to discover some meaning which transcends the intelligibility sought and achieved by ordinary historical work. (NWH)

50980 HISTORICAL WRITING AND EDITING. The methods and problems of research and historical writing. Also covers the principles and methods of editing historical journals and documents including archival manuscripts. (3 hours) (NWH or WH).

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Liberal Studies

Available as a major on the B.A. and B.S. degrees. A student may not declare a liberal studies major without prior approval of the Dean of AddRan College.

This is not a program for students who are simply unable to decide on a major. It is a program for students who wish to use all of TCU's resources to design a major field of study in which learning is shaped by their own educational goals. The major in Liberal Studies is not the way to get a "shadow" major in some established program by omitting some required courses, throwing in a few favorite courses from another field, and calling it a major in liberal studies. Each program is developed by the student with the assistance of one or more faculty advisers and must be approved by the Dean of AddRan College and by a faculty committee on liberal studies. The Dean's office assists in the selection of an adviser. The major should be declared by the beginning of the Junior year. In no case would the major be approved after the student had completed 84 semester hours. The student, with the assistance of an adviser, will work out a statement of objectives with a rationale and a detailed program of study indicating the specific courses to be taken in fulfilling the major requirements. A student interested in the major should contact the office of the Dean of AddRan College of Humanities and Social Sciences.

Requirements for a B.A. degree with a major in Liberal Studies. A minimum of 27 semester hours, at least 18 of which are at the 30000 level or above, developed in detail with respect to at least one of the following: 1) a specific professional objective, or 2) a concept, problem or theme, and including a senior internship and/or research project for a maximum of 6 semester hours. The accompanying minor is to be selected in consultation with the adviser. The B.A. degree requires a total of at least 124 semester hours.

Requirements of the B.S. degree with a major in Liberal Studies. A minimum of 45 semester hours, at least 30 of which must be at the 30000 level or above, developed in detail with regard to at least one of the following: 1) a specific professional objective, or 2) a concentration of courses developed from a minimum of two, but no more than three disciplines. The 45 hours must include a senior internship and/or research project for a maximum of 6 semester hours. The B.S. degree requires a total of at least 132 semester hours.

Pass/No Credit Option. Courses in the major and minor may be taken on the Pass/No Credit basis.

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Military Science

[Scholarships.](#)

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[Leadership Laboratory.](#)

[Curriculum.](#)

[Courses of Instruction](#)

(MISC)

Military Science offers opportunities to develop confidence, self-esteem, and leadership skills to succeed in college and beyond. It is an academic curriculum that supplements your major and is designed to prepare qualified, high potential students for service as commissioned officers in the United States Army and its Reserve Components (the Army Reserve and the Army National Guard).

The Military Science program is composed of a two year Basic Course, a five week Advanced Summer Camp and a two year Advanced Course. Nonscholarship students enrolling in only freshman and sophomore level classes incur no obligation to serve in the military after graduation. Further, these classes satisfy the UCR Physical Education Activity course requirement and can be used for elective credit.

Upon completion of the requirements for the baccalaureate degree and Military Science training requirements, students are commissioned as second lieutenants. Further, highly qualified commissionees who desire graduate or professional schooling prior to fulfilling their service obligation may apply for a fully funded educational delay.

Four-year, three-year, and two-year programs are offered. Each program includes the option for qualified students to benefit from a full tuition and fees scholarship, and TCU offers room and board grants for qualified ROTC scholarship winners.

Four-Year Program. The four-year program is divided into two portions, each consisting of four classes normally taken in sequence. The first is the Basic Course, which is usually completed during the freshman and sophomore years. The second portion of the four-year program is called the Advanced Course; it is normally completed during the junior and senior years. To enroll in the Advanced Course, students must successfully complete the Basic Course (or be given equivalent credit by the Professor of Military Science), be of good moral character, have a minimum of two years remaining as a full-time student, have a minimum GPA of 2.0, and be physically qualified. A paid and highly adventurous five-week training session between the junior and senior years is a critically important part of the Advanced Course. All Advanced Course students (both scholarship and non-scholarship) receive a monthly cash allowance while participating (full-time) in on-campus instruction. This allowance can be collected up to 10 months each year.

Two-Year Program. The two-year program is designed for students who either transfer into TCU or elect to begin pursuing a commission in the fall of their junior year. It includes a paid six-week summer training session between the sophomore and junior years and the Advanced Course described under the four-year program. Application for the two-year program is normally made during the second semester of the sophomore year. However, the two-year program is also open to juniors and seniors planning attendance at graduate school. The monthly cash allowance for students in the two-year program is the same as for other students in the Advanced Course. Numerous full tuition and fees scholarships are available for qualified two-year program applicants.

Scholarships. Four-year, three-year and two-year scholarships are available to qualified applicants. Scholarships are worth up to \$17,000 annually. Scholarships can be applied toward tuition and mandatory fees, and provide an allowance for books. The scholarship also provides a \$150 cash stipend for each month the student is participating in full-time on-campus instruction (limited to 10 months each year). The stipend amount varies by class year, and ranges from \$250 for freshman to \$400 for seniors.

Four-Year Scholarships. High school students wishing to compete for a four-year scholarship should apply during the summer between their junior and senior year. Outstanding candidates can be notified of their selection as early as November of their senior year. Students who wait until their senior year to apply must apply early. Completed applications must be received at the evaluation center before Nov. 15 of the students senior year in high school.

Three-Year Scholarships. Freshman students enrolled at TCU or students planning to transfer into TCU at the beginning of their sophomore year may apply for three-year scholarships. Students applying for the three-year scholarship must have at least 27 semester hours credit at the beginning of the sophomore year and meet the other specified eligibility criteria.

Two-Year Scholarships. Any student, presently enrolled or planning to transfer to TCU, who will have 54 semester hours completed by the beginning of the next fall semester may apply for a two year scholarship. To validate their scholarships, recipients will be required to satisfactorily complete a paid six-week summer training session prior to entering school in the fall semester.

Nursing Scholarships. The Army ROTC provides four-, three-, and two-year scholarships for students interested in becoming officers in the United States Army Nurse Corps. Application forms and information about these scholarships may be obtained by writing to the Professor of Military Science, Department of Military Science, TCU Box 298910, Fort Worth 76129, or by calling collect (817) 257-7455.

Tuition Assistance. The Financial Aid office can provide further information.

Waivers. Part or all of the Basic Course may be waived for veterans with acceptable active duty service. Students transferring from a military academy or military junior college may also receive a waiver for the Basic Course.

Graduate Studies. Upon application, Military Science graduates may be granted a delay before entering active duty for a period of two or three years from the date of their commission. Authorized purposes are attending graduate school, medical school, or law school. In some cases, the delay may exceed three years. A number of salaried and fully funded graduate programs are also available to top academic performers and medical school applicants who complete the ROTC curriculum.

Leadership Laboratory. Every Military Science student is required to participate in the weekly leadership lab in addition to the scheduled class periods. The lab meets every Thursday, 3:30 - 5 p.m., during the semester and provides leadership training, military skills and tactical training, and drill and ceremonies instruction. Leadership experience is gained by students managing, leading and teaching other students within the framework of the Cadet Battalion. All leadership positions are filled by upperclass cadets who are responsible for planning and executing each lab period under the guidance of seasoned Army officers and noncommissioned officers.

Curriculum. The curriculum consists of the Basic Course and the Advanced Course described previously under the Four-Year Program and further described below.

Pass/No Credit Option. Military Science classes may not be taken on the Pass/No Credit basis.

Basic Course. The Basic Course should include 10041, 10081, 20042, and 20092. Leadership Lab is required for all courses listed below.

The following is a complete list of courses offered by this department. Go to Class Search on Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

***10001 LEADERSHIP LAB.** Fall/Spring. One class per week. This course facilitates the development of leadership skills while giving practical experience in military skills. Areas of emphasis include drill and ceremonies, squad level tactics, first aid and land navigation. Advanced Course cadets conduct the training and lead the cadet battalion under cadre supervision. A weekend field training exercise and weekly physical fitness training are included in the course.

***10041 INTRODUCTION TO LEADERSHIP I.** Fall/Spring. One class per week. A progressive overview of the U.S. Army to include its history, its organization, its customs and courtesies, its strategic mission, dynamic structure, and methods of tactical deployment. Included is a field trip, where students are exposed to on- and off-duty Army life and have the opportunity to observe new combat arms lieutenants in action.

***10081 INTRODUCTION TO LEADERSHIP II.** Spring. One class per week. Fundamentals of basic tactics to include movement techniques, battle drill/assault techniques, squad tactical control measures, land navigation, and first-aid training. Designed to give the student an initial level of tactical proficiency and a degree of leadership training.

20042 BASIC LEADERSHIP I. Fall. Two classes per week. Challenges the student to become tactically and technically proficient. Students study the military element of power and become proficient in rifle marksmanship, learn and practice first aid, use light infantry tactics, and gain a fundamental knowledge of map reading.
Prerequisite: Concurrent or past enrollment in MISC 10041.

20092 BASIC LEADERSHIP II. Spring. Two classes per week. This course prepares students to be positive and assertive leaders and conduct instruction through the study and application of basic military leadership principles. Includes leadership assessment training and student classroom presentations. *Prerequisite: Concurrent or past enrollment in MISC 10041 Introduction to Military Science.*

20970 SPECIAL TOPICS IN MILITARY SCIENCE. Fall/Spring. Special study opportunities as directed by the Department Chairman. (1-6 sem. hrs.)

Advanced Course. The Advanced Course consists of the 30053, 30063, 40053, 40063 and the five-week summer leadership practicum (Advanced Camp) held between the junior and senior years. Leadership lab is required for all courses.

30053 INTERMEDIATE LEADERSHIP I. Fall. Two classes per week. Students learn effective counseling, writing, and human relation skills necessary to positively influence human behavior. Students develop confidence and leadership experience in addition to land navigation skills and tactical proficiency. Group participation and exposure to leadership reaction situations. *Prerequisite: Basic Course or equivalent credit.*

30063 INTERMEDIATE LEADERSHIP II. Spring. Two classes per week. An analysis of the leaders role in directing and coordinating the efforts of individuals and organizations. This professional block of instruction involves student role modeling and analysis of controversial leadership case situations. Students practice and learn the necessary skills to take charge when responsible, as well as control and positively influence personnel under stressful situations. Additional professional skills are also taught. *Prerequisite: Completion of MISC 30053 or permission of department chair.*

30970 DIRECTED STUDIES IN MILITARY SCIENCE. Fall/Spring. Opportunity for independent study as directed by the instructor prior to enrollment. (1-6 sem. hrs.)

40053 ADVANCED LEADERSHIP I. Fall. Two classes per week. Designed to review the mission and structure of

the Army as well as discuss its professional and social aspects. The course focuses on oral and written communication skills, counseling techniques, evaluation, and reporting procedures, as well as introducing the combined arms concept. *Prerequisite: Completion of MISC 30053 and 30063 or permission of department chair.*

40063 ADVANCED LEADERSHIP II. Spring. Two classes per week. An examination of the dynamics of modern warfare from the perspective of the combat battalion task force. The integration of maneuver forces, air power, intelligence, logistics, and air mobility by a ground combat commander is studied in both practical exercise and case studies. A variety of other subjects relating to staff procedures and command and control are covered. *Prerequisite: Completion of MISC 30053 and 30063 or permission of department chair.*

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Modern Languages and Literatures

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French is available as a major on the B.A. degree and as a minor on the B.A. and B.S. degrees. German and Japanese are available as minors only. Study is also available in Chinese, Greek, Italian and Russian.

Placement. Students desiring placement into the second or third year of the language sequence must have appropriate prior study of the language and/or take a test. If College Achievement Test scores have not been offered for admission to the University, a CLEP test in the desired language may be taken on campus during one of the summer orientations or at other times by prearrangement with the Counseling Center. Six hours of credit may be granted for competence equivalent to the department's second-year courses. Students thinking of majoring in French should bear in mind that 10000 and 20000 level courses do not count toward a major. However, 20000 level courses do count toward a minor. *Note:* Students entering the program at a certain level may not receive credit for course work taken below that level.

The department also offers a computerized placement exam in French and German that is administered during orientations. This exam provides individualized testing, identifying the student's ability level with a combination of grammar, reading and vocabulary questions. This exam is designed to place freshmen and transfer students in appropriate courses.

Honors Program. French majors who plan to pursue Departmental Honors must be members of the Honors Program and should enroll in FREN 40003 during the fall semester of their senior year.

Resident Study Abroad. The Department strongly supports foreign study and recommends certain summer study or semester/year programs abroad, particularly the summer study programs in French, German and Japanese. Other study abroad programs are also available through the Institute of European and Asian Studies. Consult the Chairman and the Foreign Study Adviser.

Pass/No Credit Option. P/NC is acceptable on 10000 and 20000 level language courses only. No course that is to be applied toward any major or minor may be taken on the Pass/No Credit basis.

Chinese

(CHIN)

The following is a complete list of courses offered by this department. Go to Class Search on the Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

10153 FIRST SEMESTER COLLEGE CHINESE. *No prerequisite.* A beginning course in Chinese intended for students with no previous knowledge of the language or insufficient knowledge to qualify for placement in a more advanced course. Aural comprehension, speaking, reading and writing are taught, with emphasis on Chinese as it is spoken today in China. Simplified Chinese characters will be introduced.

10163 SECOND SEMESTER COLLEGE CHINESE. *Prerequisite: Chinese 10153 or permission. Continues Chinese 10153.*

20053 THIRD SEMESTER COLLEGE CHINESE. *Prerequisite: Chinese 10163 or permission. Continues Chinese 10163.* Further develops aural comprehension, speaking, reading and writing skills. Assignments will include written work in Chinese characters with the assistance of Pinyin.

20063 FOURTH SEMESTER COLLEGE CHINESE. *Prerequisite: Chinese 20053 or permission. Continues Chinese 20053.*

30113 CHINESE CULTURE AND CIVILIZATION. *No prerequisite.* An overview of Chinese culture and civilization in light of past history and contemporary society. Basic readings and lectures are reinforced through class discussion, student reports and the use of ancillary visual aids. Conducted in English.

French

(FREN)

Requirements for the B.A. degree with a major in French. A minimum of 24 semester hours of French, exclusive of courses on the 10000 and 20000 level. French 30053 and 30063 are prerequisites to all higher-numbered courses; however, French 30153, 30163 and 30253 may be taken concurrently with them. All courses in the language sequence except 10153 require as prerequisite either satisfactory completion of the previous semester or the appropriate score on the CLEP test or AP exam. Students may not receive credit for a course that is a prerequisite or is a lower level after having received credit for a higher level course. All French majors must take a minimum of two Survey of French Literature courses (FREN 40073, 40083, or 40093) in any order, and all majors in French must take at least one Seminar in French Studies (FREN 40123).

Requirements for a minor in French. A minimum of 18 semester hours, exclusive of courses on the 10000 level.

Requirements for teacher certification.

A. Texas Oral Proficiency Test (TOPT). Students seeking Texas teaching certification with an elementary specialization or secondary teaching field in French must take the TOPT. This test must be taken in addition to the ExCET exams required. Candidates who attain the TOPT's passing standard of advanced oral proficiency or higher will be recommended for certification. Candidates who do not meet the TOPT's passing criteria, but who have met all other course work and certification requirements, may be recommended for a general elementary certificate or a single secondary teaching field.

Students who plan to earn a teaching certificate requiring a passing score in the TOPT must submit a language assessment form from the Department of Modern Languages and Literatures when applying for admission to the Teacher Education Program of the University.

Candidates seeking teacher certification and preparing for the ExCET and TOPT exams are strongly encouraged to take advantage of the Resident Study Abroad program (French 30173). They are also advised to include Advanced French Conversation (French 30043) and French Culture and Civilization (French 30153 and 30163) in their course of study.

B. Students seeking certification for teaching French at the secondary school level should be advised by the departmental secondary certification advisor. Specific requirements for French as a teaching field follow:

10153 First Semester College French	3
10163 Second Semester College French	3
20053 Third Semester College French	3
20063 Fourth Semester College French	3
30053 Intermediate Reading and Writing	3
30063 Readings in selected French genres	3
Select six hours from the following:	6
30033,30043,40073,40083,40093,30153,	
30163,30253,40123,40163,40173,40970	
50033 (when available)	
Total hours	18-24

Note: Some students will not have to take 10153-10163. Some will receive credit by exam for 20053-20063. No credit is given for 10153-10163 by exam.

For more information regarding elementary and secondary teacher certification in French, see the School of Education section of this bulletin.

The following is a complete list of courses offered by this department. Go to Class Search on the Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

10033 PRACTICAL CONVERSATIONAL FRENCH. Emphasis on active skills, in a two-semester sequence. May not be used to satisfy the B.A. language requirement.

10043 PRACTICAL CONVERSATIONAL FRENCH. Continues 10033. *Prerequisite:* 10033 or equivalent.

10053 FRENCH FOR READING KNOWLEDGE. Intensive reading in the humanities, the social sciences and the natural sciences. Intended for students preparing for graduate reading examinations. May not be used to satisfy the B.A. language requirement.

10063 FRENCH FOR READING KNOWLEDGE. Continuation of 10053.

10153 FIRST SEMESTER COLLEGE FRENCH. A beginning course in French intended for students with no previous knowledge of the language, or insufficient knowledge to qualify for placement into a more advanced course. The four skills of listening, speaking, reading and writing are taught at the elementary level, with an emphasis on oral proficiency in everyday situations encountered in French-speaking countries. No prerequisite.

10163 SECOND SEMESTER COLLEGE FRENCH. *Prerequisite:* French 10153 or permission. Continuation of 10153.

20053 THIRD SEMESTER COLLEGE FRENCH. *Prerequisite:* 10163 or appropriate score on an approved placement test. Continues development of the skills of listening comprehension, speaking, reading, and writing on the intermediate level.

20063 FOURTH SEMESTER COLLEGE FRENCH. *Prerequisite:* French 20053 or permission. Enhances language

skills on the intermediate level through a combination of readings and oral activities. Emphasizes acquisition of active and passive vocabulary.

30003 JUNIOR HONORS SEMINAR. *Prerequisite: Admission to Honors Program in Modern Languages and junior standing, or permission.* Junior honor students will write a major paper on a topic agreed upon between the student and two professors, one of whom will direct the research and development of the paper. This paper, when completed is to be read and approved by the two designated professors of the department.

30033 PHONETICS. *Prerequisite: French 20053-20063 or permission.* Description and study of French sounds and intonation. Transcriptions using the International Phonetic Alphabet and orthophonic drills. Laboratory practice.

30043 ADVANCED CONVERSATION. *Prerequisite: French 30033 or permission.* Essentially a performing class with emphasis on motivating the students to speak. Opportunity not only to hear but to use everyday spoken French and to acquire systematically the vocabulary and idioms necessary to express oneself correctly and comfortably in practical situations. This course will count toward the major in French, but does not replace either French 30053 or 30063.

30053 INTERMEDIATE READING AND WRITING. *Prerequisite: French 20063 or appropriate score on an approved college placement test.* This course is a prerequisite to higher-numbered courses, although some higher-numbered courses may be taken concurrently with it. This course emphasizes the development of reading and writing skills in French, building on oral and listening comprehension skills developed in previous courses.

30063 READINGS IN SELECTED FRENCH GENRES. *Prerequisite: French 30053 or permission.* This course further develops students' reading skills in French, exposing them to literary texts in a variety of genres from different periods. Includes an introduction to the study and analysis of literary works.

30153 FRENCH CULTURE AND CIVILIZATION I. *Prerequisite: French 30063 or permission.* Study of French history, art, geography, government and customs to the revolution of 1789.

30163 FRENCH CULTURE AND CIVILIZATION II. *Prerequisite: French 30063 or permission.* Continuation of 30153 from the revolution of 1789 to the present day.

30173 FRENCH CIVILIZATION: ANGERS ET L'ANJOU. *Prerequisite: French 10163.* A Summer course conducted by TCU on the campus of the *Universite Catholique de l'Ouest (Angers, France)* in the heart of the Chateau country of the Loire Valley. The course, directed by members of the TCU faculty, offers students the opportunity to improve linguistic and cultural proficiency by interacting with natives of the culture. Students are directed to actively investigate topics highlighting various aspects of Angevin culture and history.

Note: Students in French 30173 enroll concurrently in an intensive language course taught by the faculty of the Universite Catholique de l'Ouest for a total of six credit hours.

30253 CONTEMPORARY FRANCE AS REFLECTED IN THE PRESS. *Prerequisite: French 30063 or permission.* Reading of current newspapers, magazines and other periodical literature. Work with tapes of radio and television broadcasts. Emphasis on everyday, idiomatic French.

40003 SENIOR HONORS PAPER. *Prerequisite: Admission to Honors Program in Modern Languages and senior standing, or permission.* Senior honors students will write a major paper on a topic agreed upon between the student and two professors, one of whom will direct the research and development of the paper. This paper, when completed, is to be read and approved by the two designated professors of the department.

40013 FRENCH LITERATURE IN TRANSLATION. Prerequisite of French 30053-30063 does not apply. Topic to be announced each time the course is offered. Lectures, discussions and readings in English. Open to French majors and minors for elective credit only.

40073 SURVEY OF FRENCH LITERATURE I. *Prerequisite: French 30063 or permission.* The study of early French literature from the Middle Ages through the 17th century. Readings of representative works of major French writers from each period or movement. Includes techniques of literary analysis and study.

40083 SURVEY OF FRENCH LITERATURE II. *Prerequisite: French 30063 or permission.* The study of French literature of the 18th and early 19th centuries (through Romanticism). Readings of representative works of major French writers from each period or movement. Includes techniques of literary analysis and study.

40093 SURVEY OF FRENCH LITERATURE III. *Prerequisite: French 30063 or permission.* The study of French literature of the late 19th century and the 20th century. Readings of representative works of major French writers from each period or movement. Includes techniques of literary analysis and study.

40123 SEMINAR IN FRENCH STUDIES. *Prerequisite: French 30063 or permission.* A specific author, genre, period or theme will be chosen for study.

40133 TOPICAL READINGS IN FRENCH NONFICTION. *Prerequisite: French 30063 or permission.* A specific author, genre, period or theme will be chosen for study.

40143 NON-EUROPEAN FRENCH PROSE AND POETRY. *Prerequisite: French 30063 or permission.* Study of French language writings from Africa, the Caribbean, Canada or other French-speaking areas. A specific author, genre, period or theme will be chosen for study.

40163 ADVANCED FRENCH GRAMMAR. *Prerequisite: French 30063 or permission.* An intensive review of French grammar designed to clarify fine points of grammar while increasing proficiency in the four skills of reading, writing, listening, and speaking.

40173 ADVANCED FRENCH COMPOSITION. *Prerequisite: French 30063 or permission.* Intensive practice in various forms of written expression in French, including correspondence, short essay, explication de texte, and problems of translation.

40970 DIRECTED STUDY. *Prerequisite: French 30063 or permission.* Topic and credit hours announced yearly. Opportunity for independent study. (1-6 hours)

50033 THE TEACHING OF MODERN FOREIGN LANGUAGES. *Prerequisite: Junior standing, and French 30063 or concurrent enrollment.* Analysis and consideration of values, objectives, content and methods, with special reference to the teaching of foreign languages in the high school. Demonstrations of modern techniques, use of audiovisual aids and realia, and operation of a foreign language laboratory. Required of students seeking Texas Public School Certification. Cross-listed under German 50033 and Spanish 50033.

50163 RENAISSANCE. The literature of the 16th century and its major figures. Some attention to characteristics of the 16th century French language.

50173 CLASSICAL PERIOD. The literature of the 17th century and its major figures, with emphasis on the drama of Corneille, Moliere and Racine and the critical theories of classicism.

50183 ENLIGHTENMENT. The literature of the 18th century and its major figures, including consideration of scientific, philosophic and political thought of the period.

50293 ROMANTICISM. The literature of the Romantic period, including representative readings in prose, poetry, drama and critical theory of the first half of the 19th century.

50203 MODERN NOVEL. The development of the novel during the first half of the 20th century.

50213 MODERN DRAMA. The development of the theatre from the 1920s to the present. Some consideration of the backgrounds of modern theatre and of the latest avant-garde trends.

German

(GERM)

Requirements for a minor in German. A minimum of 18 semester hours, exclusive of courses on the 10000 level. German 30053-30063 are prerequisites to all higher-numbered courses. All courses in the language sequence except 10153 require as prerequisite either satisfactory completion of the previous semester or the appropriate score on the CLEP Test, or AP exam.

The following is a complete list of courses offered by this department. Go to Class Search on the Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

10053 GERMAN FOR READING. This course stresses the basic grammar of German and, with its heavy passive vocabulary load, serves those students who wish to develop very rapidly a reading ability so that translation and analysis of scientific, literary and other prose texts may be achieved as soon as possible. Recommended for graduate students preparing for the graduate reading examination. Open to minors in German for elective credit only.

10063 GERMAN FOR READING. *Prerequisite: German 10053, or permission.* Continues German 10053.

10153 FIRST SEMESTER COLLEGE GERMAN. A beginning course in German intended for students with no previous knowledge of the language, or insufficient knowledge to qualify for placement into a more advanced course. The four skills of comprehension, speaking, reading, and writing are taught at the elementary level, with an emphasis on oral proficiency in everyday situations encountered in German-speaking countries. No prerequisite.

10163 SECOND SEMESTER COLLEGE GERMAN. *Prerequisite: German 10153 or permission.* Continuation of German 10153.

20053 THIRD SEMESTER COLLEGE GERMAN. *Prerequisite: German 10163, or appropriate score on an approved college placement test, or permission.* Continues 10163. Further develops the skills of listening comprehension, speaking, reading, and writing.

20063 FOURTH SEMESTER COLLEGE GERMAN. *Prerequisite: German 20053 or permission.* Enhances language skills on the intermediate level through a combination of readings and oral activities. Emphasizes acquisition of active and passive vocabulary.

30053 THIRD YEAR COLLEGE GERMAN. *Prerequisite: German 20063, or appropriate score on an approved college placement test, or permission.* This course is a recommended prerequisite to all higher-numbered courses in German. It is not open to students whose native language is German. Extensive development of the language skills acquired in German 10153-10163 and 20053-20063 or other elementary and intermediate training. Concentration on the spoken language.

30063 THIRD YEAR COLLEGE GERMAN. *Prerequisite: German 30053 or permission.* Continuation of 30053. Concentration on reading and writing.

30193 INTRODUCTION TO GERMAN LITERATURE. *Prerequisite: German 30063 or permission.* Critical reading of representative works from various periods for the purpose of developing skill in the analysis and interpretation of literature.

40023 GERMAN CULTURE AND CIVILIZATION. *Prerequisite: German 30063 or permission.* The main developments in German history, philosophy, science and the arts, with emphasis on the 18th, 19th and 20th centuries. All class discussion and assignments in German, providing advanced practice in grammar and usage.

40970 DIRECTED STUDY. *Prerequisite: Permission of instructor.* (1-6 hours)

50033 THE TEACHING OF MODERN FOREIGN LANGUAGES. *Prerequisite: Junior standing, and German 30063 or concurrent enrollment.* Analysis and consideration of values, objectives, content and methods, reference to the teaching of foreign languages in the high school. Demonstrations of modern techniques, use of audiovisual aids and realia, and operation of a foreign language laboratory. Required of students seeking Texas Public School certification. Cross-listed under French 50033 and Spanish 50033.

Greek

(GREE)

The following is a complete list of courses offered by this department. Go to Class Search on the Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

10053 FIRST SEMESTER COLLEGE GREEK (HELLENISTIC). An introduction to the grammar of ancient Greek, utilizing as the basis of study the elements of the Hellenistic Greek of the first century A.D. found in the best known documents of the period, the New Testament.

10063 SECOND SEMESTER COLLEGE GREEK. (HELLENISTIC) *Prerequisite: Greek 10053 or its equivalent.* Continuation of Greek 10053. In the second half of the semester, students will read from the New Testament Gospels.

20053 THIRD SEMESTER COLLEGE GREEK (HELLENISTIC). *Prerequisite: Greek 10053 and 10063 or equivalent.* Further study of Hellenistic Greek Grammar, through extensive reading in the New Testament, especially the letters of Paul.

20063 FOURTH SEMESTER COLLEGE GREEK (HELLENISTIC). *Prerequisite: Greek 20053 or equivalent.* Continuation of Greek 20053, with reading and interpretation in the New Testament and other Hellenistic texts.

40970 DIRECTED STUDY. *Prerequisite: Permission of instructor.* Opportunity for independent study of Hellenistic texts. (1-6 semester hours.)

Italian

(ITAL)

The following is a complete list of courses offered by this department. Go to Class Search on the Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

10153 FIRST SEMESTER COLLEGE ITALIAN. A beginning course in Italian intended for students with no previous knowledge of the language, or insufficient knowledge to qualify for placement into a more advanced course. The four skills of listening, speaking, reading, and writing are taught at the elementary level, with an emphasis on oral proficiency in everyday situations encountered in Italy or any other Italian-speaking region (e.g., southern Switzerland). No prerequisite.

10163 SECOND SEMESTER COLLEGE ITALIAN. Continuation of ITAL 10153. *Prerequisite: 10153 or permission*

20053 THIRD SEMESTER COLLEGE ITALIAN. Continuation of ITAL 10163. *Prerequisite: Italian 10163, or appropriate score on a college-level placement test, or permission.* Further develops the skills of listening comprehension, speaking, reading, and writing.

20063 FOURTH SEMESTER COLLEGE ITALIAN. *Prerequisite: ITAL 20053 or permission.* Combines a "targeted" review of grammatical topics with work in reading and writing that goes beyond the level of third semester. Class discussion in Italian. In addition, there will be substantial assignments involving audio and video material.

Japanese

(JAPN)

Requirements for a minor in Japanese. 18 semester hours including language courses JAPN 10153, 10163,

20053, 20063, 30123, and Japanese Culture and Civilization JAPN 30113. All courses in the language sequence require as prerequisite either satisfactory completion of the previous semester.

The following is a complete list of courses offered by this department. Go to Class Search on the Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

10153 FIRST SEMESTER COLLEGE JAPANESE. No prerequisite. A beginning course in Japanese intended for students with no previous knowledge of the language or insufficient knowledge to qualify for placement in a more advanced course. Aural comprehension, speaking, reading, and writing are taught, with emphasis on Japanese as it is spoken today in Japan. Japanese kana will be introduced.

10163 SECOND SEMESTER COLLEGE JAPANESE. *Prerequisite: Japanese 10153 or permission.* Continues Japanese 10153.

20053 THIRD SEMESTER COLLEGE JAPANESE. *Prerequisite: Japanese 10163 or permission.* Continues Japanese 10163. Further develops aural comprehension, speaking, reading, and writing skills. Assignments will include written work in Japanese.

20063 FOURTH SEMESTER COLLEGE JAPANESE. *Prerequisite: Japanese 20053 or permission.* Continues Japanese 20053.

30113 JAPANESE CULTURE AND CIVILIZATION. No prerequisite. This course emphasizes modern Japan from a sociocultural perspective, focusing on contemporary Japanese life and perceptions of the West. So as to allow maximum class time for discussion, substantial reading assignments are required. Taught in English.

30123 JAPANESE FOR DAILY USE. *Prerequisite: JAPN 20063 or permission.* This course is designed to advance students' overall ability in Japanese. Journal writing and speech making are emphasized.

40770 DIRECTED STUDY. *Prerequisite: Permission of instructor.* Opportunity for work on one's own under supervision. (1-6 semester hours).

Russian

(RUSS)

Minor Not Currently Available

Requirements for a minor in Russian. 18 semester hours distributed as follows: introductory and intermediate language (12 hours), literature (3 hours) and civilization (3 hours).

The following is a complete list of courses offered by this department. Go to Class Search on the Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

10153 INTRODUCTORY RUSSIAN I. Develops facility in the skills of reading and aural comprehension. Teaches the cultural context of modern Soviet Russian through videotapes, background study (in English) and short essays. Three class hours and one language laboratory session per week.

10163 INTRODUCTORY RUSSIAN II. *Prerequisite: Russian 10153 or equivalent.* Continuation of Russian 10153.

20053 INTERMEDIATE RUSSIAN I. *Prerequisite: Russian 10163 or equivalent.* Emphasis on listening comprehension in a variety of situational contexts and on facility in asking and answering short questions. Prepares the student for encountering colloquial Russian.

20063 INTERMEDIATE RUSSIAN II. *Prerequisite: Russian 20053 or equivalent.* Continuation of Intermediate Russian I.

30113 RUSSIAN CULTURE AND CIVILIZATION. Taught in two variants: A) Main currents in history of the arts in Russia, including architecture and painting, folklore, literature, opera, music, theater and ballet to 1917; B) Contemporary Soviet life and perceptions of the West. Periods of study and travel in the USSR are strongly encouraged and may be a component of either variant. Taught in English. *No prerequisite.*

30203 RUSSIAN LITERATURE IN TRANSLATION. Classics of 19th century prose, drama and narrative poetry. Attention to the West European context of thought and literary expression. Among the writers covered are Dostoevsky and Tolstoy, Pushkin, Gogol and Turgenev, and Chekhov. Qualified students will study passages in the original. Taught in English. No prerequisite.

30970 DIRECTED STUDY. *Prerequisite: Intermediate Russian II.* Opportunity to work on one's own under supervision. (1-6 semester hours).



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Philosophy

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(PHIL)

Available as a major on the B.A. degree and as a minor on the B.A. or B.S. degree.

Requirements for a B.A. degree with a major in Philosophy. Twenty-four semester hours in philosophy with at least 6 in Topical Studies, 6 in Historical Studies and 3 in Logical Studies. At least 12 hours must be at the 40000 level or above. An accompanying minor should be chosen in consultation with the adviser for the Philosophy Department.

Requirements for a minor in Philosophy. Eighteen semester hours in philosophy with at least 3 hours in each of the 3 divisions (Topical, Historical and Logical Studies) at least 9 hours at the 40000 level or above. Selection of courses should be made in consultation with the designated adviser for the Philosophy Department.

General Guidelines. The study of academic philosophy is unfamiliar and often intimidating to most beginning college students. But those students who do study philosophy quickly learn that philosophical issues touch on all aspects of life. Philosophy deals with issues such as human nature, ethics, mind and reasoning. Although approaching these issues with the rigors of the philosophical method is both new and challenging to beginning students, most of those who study philosophy usually find the experience both an interesting and rewarding one in which they learn much about themselves and the world in which they live.

PHIL 10003 must be completed prior to taking almost any other philosophy course except for those in Logical Studies. After completion of PHIL 10003, it is generally required that students take one or more 30000 level courses, where more detailed and rigorous treatment of specific areas as well as initial instruction in philosophical writing will be provided. Successful completion of courses at the 30000 level should prepare students for 40000 level courses, most of which (except for Logical Studies) satisfy the UCR Writing Emphasis requirement (see this Bulletin's UCR section on Writing Emphasis).

Important Note: The description of a number of 30000 or 40000 level courses include specific prerequisites for those courses. For example, in order to take PHIL 40343 (Advanced Issues in Philosophy of Law) students must first complete PHIL 10003 as well as PHIL 30413 (Introduction to Philosophy of Law). Other 40000 level courses (e.g. History of Ancient and Medieval Philosophy) require only that students have taken some 30000 level course. The department strongly urges students interested in courses beyond PHIL 10003 to consult with a member of the department in choosing courses best suited to their curricular needs.

Honors Program. Philosophy majors who plan to pursue Departmental Honors must be members of the Honors Program and should enroll in PHIL 30003 during their junior year and PHIL 40000 during the fall semester of their senior year. (*Note:* PHIL 30003 may be included in the 24 semester hours required for the major, but PHIL 40000 may not.)

Pass/No Credit. Courses to be applied toward the major may not be taken on the Pass/No Credit basis. Philosophy majors may take courses in their minor on the Pass/No Credit basis.

The following is a complete list of courses offered by this department. Go to Class Search to see which courses are being taught this semester.

Courses of Study

Topical Studies

10003 PHILOSOPHY ONE: (Subtitle and content may vary in different sections.) This course focuses on the basic human concerns treated under the classical core elements of philosophical inquiry, and prepares students for more detailed treatments of these areas in courses at the 30000 level. Major topics include ethics, epistemology, metaphysics and the philosophies of religion, science, art and mind, and introductory logic.

30003 JUNIOR HONORS SEMINAR. *Prerequisite: Permission of instructor.*

30313 MORAL PROBLEMS. *Prerequisite: PHIL 10003.* A examination of contemporary moral issues. Typical topics include abortion, euthanasia, discrimination, preferential hiring, the enforcement of community standards, the morality of war, punishment, the rights of distant peoples and future generations, and environmental ethics.

30323 PHILOSOPHY OF RELIGION. (RELI 30633) *Prerequisite: PHIL 10003 or any religion course.* Philosophy of Religion today is centrally concerned with issues relating to the rationality and justification of religious convictions. There is also an interest in the coherence of religious concepts. In this course various philosophical models for understanding and evaluating religious convictions and practices are examined and applied.

30333 ASIAN PHILOSOPHY. *Prerequisite: PHIL 10003.* A survey of the three intellectual traditions of Asia: Japanese, Chinese, and Indian philosophy. Topics include causality, concepts of the individual and Nature, and the

nature of reality and knowing.

30343 PHILOSOPHY OF SPORT. *Prerequisite: PHIL 10003.* Various philosophical theories regarding the nature of sport and its role in society are examined with a view to understanding the basic concepts involved in games, such as rule-governed behavior, habitual skills, strategy, competition and contingency.

30353 POLITICAL PHILOSOPHY. *Prerequisite: PHIL 10003.* An introduction to the classical systems and central issues in political philosophy. The approach is largely historical, and selected major thinkers of most recent four centuries form the focus of the course.

30363 ETHICS AND HEALTHCARE. *Prerequisite: PHIL 10003 or permission of the instructor.* An introduction to ethical and philosophical issues in healthcare. Case studies supplemented with readings from medical, nursing, and philosophical literature.

30373 EXISTENTIAL PHILOSOPHY. *Prerequisite: PHIL 10003.* This course offers students an opportunity to reflect on such topics as alienation, the search for meaning, freedom, embodiment, authenticity, love, and ethics as they are dealt with in texts by major writers in the 19th and 20th century movement known as existentialism.

30383 THEORIES OF HUMAN NATURE. *Prerequisite: PHIL 10003.* A survey of Western ideas about the nature of human beings. The course examines theories about the fundamental characteristics of human individuals and their bearing on the nature of social groups.

30393 PHILOSOPHY OF MIND. *Prerequisite: PHIL 10003.* A survey of past and present accounts of human mentality. Beginning with the classical ideas of the soul the course concentrates on the major theories of mind advanced by Western philosophers in the last four centuries.

30403 ENVIRONMENTAL PHILOSOPHY. *Prerequisite: PHIL 10003.* This course surveys several contemporary approaches for understanding our moral obligation to the environment, including intuitionism, utilitarianism, deontology and feminism. By applying these approaches to concrete environmental issues, the course illustrates how efforts to preserve the environment raise special difficulties for traditional moral categories, such as intrinsic and instrumental value. The course also explores the peculiarly aesthetic dimension of environmental ethics, including claims about the value of natural beauty and unspoiled wilderness.

30413 INTRODUCTION TO PHILOSOPHY OF LAW. *Prerequisite: PHIL 10003.* An examination of the basic issues in Legal Theory. Topics typically include the nature of legal reasoning, the relationship between law and morality, and classical theories of law.

30970 PHILOSOPHICAL STUDIES. *Prerequisite: Permission of instructor.* Topics vary as announced. May be repeated for credit. (1-6 hours)

40000 SENIOR HONORS RESEARCH. *Prerequisite: Permission of instructor.* (1-3 hours)

40203 SEMINAR IN METAPHYSICS. *Prerequisite: Permission of instructor.* Course content to vary by semester and will include such areas as philosophy of mind, philosophy of history, action theory, ontology, Process Philosophy and Continental Philosophy.

40303 SEMINAR IN VALUE THEORY. *Prerequisite: Permission of instructor.* Course content to vary by semester and will include such areas as metaethics, phenomenology of values, philosophy of religion, legal philosophy, philosophy of sport and aesthetics.

40323 PHILOSOPHY OF SCIENCE. *Prerequisites: PHIL 10003 or advanced standing as a major in one of the physical, life, or social sciences (or permission of the instructor.)* Includes What are the aims of science? What are the roles of theory and experiment in science? What is explanation? What is a scientific law? How do scientists justify their claims? How does scientific knowledge develop and grow? What are the differences between physical and life sciences and the social sciences?

40343 ADVANCED ISSUES IN PHILOSOPHY OF LAW. *Prerequisites: PHIL 10003 and 30413.* A rigorous examination of specific issues in legal theory and jurisprudence. Topics may include the nature of law, legal adjudication, law and economics, theories of punishment, and legal responsibility and obligation.

40373 ART AND THE AESTHETIC. *Prerequisite: PHIL 10003.* Philosophical theories are presented regarding the nature of art and aesthetic experience. The concepts of representation, expression, formalism, the work of art, intention, meaning, truth, and criticism are discussed along with how they contribute to answering the question, "What is art?"

40383 ADVANCED TOPICS IN HUMAN NATURE. *Prerequisites: PHIL 10003 and PHIL 30383 (or PHIL 30393).* Critical analysis of contemporary theories of human nature advanced by philosophers, psychologists, biologists, cognitive scientists and others. The thinkers under consideration will vary but examples would include E. O. Wilson, B. F. Skinner, Sigmund Freud, John Searle and Daniel Dennett.

40393 ETHICAL THEORY. *Prerequisites: PHIL 10003 and PHIL 30353 (or PHIL 30313 or PHIL 30363).* A systematic treatment of basic issues in moral theory, critically examining such issues as the possibility of providing rational foundations for moral belief, and the nature of moral judgments and moral reasoning, focusing on the work of major historical and contemporary figures.

40403 SEMINAR IN EPISTEMOLOGY. *Prerequisite: Permission of instructor.* Course content to vary by semester and include areas such as theories of perception, theories of truth, analytic philosophy, philosophy of science, phenomenology, pragmatism and empiricism.

50933 PHILOSOPHY OF HISTORY. (HIST 50933) *Prerequisites: 6 hours history and 3 hours philosophy.* A philosophical analysis of historiography; the logical, conceptual and epistemological characterization of what historians do; also includes a study of traditional attempts to discover some meaning which transcends the intelligibility sought and achieved by ordinary historical work.

50970 DIRECTED STUDIES IN PHILOSOPHY. *Prerequisite: Permission of instructor.*

Historical Studies

40213 HISTORY OF ANCIENT AND MEDIEVAL PHILOSOPHY. *Prerequisites: PHIL 10003 and any 30000 level PHIL course.* A survey of the major figures in Western thought between 600 BCE and 1500 CE. Among those included are the Presocratics, Plato, Aristotle, Plotinus, Augustine and Aquinas.

40220 CONTEMPORARY PHILOSOPHY. *Prerequisite: Permission of instructor.* An historical study of one or more philosophical movements in the twentieth century. Topics vary and include analytic, existential, phenomenological and process philosophy. May be repeated for credit. (3-6 hours)

40223 HISTORY OF MODERN PHILOSOPHY. *Prerequisites: PHIL 10003 and PHIL 30383 (or PHIL 30393 or permission of instructor).* A survey of the major figures in Western thought from 1500 to 1800. Among those included are Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume and Kant.

40233 HISTORY OF CONTINENTAL PHILOSOPHY IN THE 19TH AND 20TH CENTURIES. *Prerequisites: PHIL 10003 and PHIL 40223.* The philosophical tradition after Kant developed in different ways in Continental Europe from the ways it did in English speaking countries. This course examines those developments, especially in Germany and France. Such thinkers as Hegel and the German Idealists, Kierkegaard and Nietzsche, Husserl and Heidegger, Sartre and Merleau-Ponty, Gadamer, Ricoeur and Derrida are discussed.

40243 ANGLO-AMERICAN PHILOSOPHY. *Prerequisites: PHIL 10003 and PHIL 40223.* A historical study of either the analytic or pragmatic tradition. Such figures as Carnap, Neurath, Schlick, Moore, Russell, and Ayer; or Royce, Peirce, Mead, James, Dewey, and Quine; or a combination of philosophers are studied.

Logical Studies

20103 CRITICAL REASONING. How to detect, analyze, and critically evaluate reasoning in ordinary language and its technical counterparts found in business, economics, etc. The course is designed to enhance skills for handling arguments in a variety of texts. Understanding the arguments and theories encountered in one's situations is stressed, along with how one can improve one's own expression of arguments and theories, especially in writing. Topics include techniques of reconstruction and evaluation in a process of self-editing, detection of fallacies, and distinguishing correct from incorrect reasoning.

30133 SYMBOLIC LOGIC I. (Math 30133) An introduction to the scope and limits of modern logic. The nature of logical systems and the various areas of logic are discussed. Alternative proof-procedures in propositional logic and predicate logic are presented.

30143 SYMBOLIC LOGIC II. (MATH 30143) *Prerequisite: PHIL 30133.* A continuation of 30133, with an emphasis on predicate logic, nonstandard logic, and metalogic.

40103 SEMINAR IN LOGIC. *Prerequisite: PHIL 30133 or MATH 20524 (or permission of instructor).* Advanced topics in logic. Course content to vary by semester and will include areas such as formal languages, mathematical logic, deontic logic, modal systems, and philosophy of language.

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Political Science

[Requirements for a bachelor's degree](#)
[Requirements for a minor in Political Science.](#)
[Honors Program.](#)
[Honor Society.](#)
[London Internship Program.](#)
[Washington Internship Program.](#)
[Courses of Instruction](#)
[Pre Law](#)

(POSC)

Available as a major and a minor on the B.A. and B.S. degrees.

The Department offers students options for course concentrations in the following subfields: American politics, political theory, international politics, comparative politics, public law, research methods, and public affairs internships.

Students seeking certification for teaching Political Science/Government at the secondary school level should be advised by the departmental secondary certification advisor. Specific requirements for Political Science as a teaching field include:

10133 American and Texas Government	3
20093 Scope and Methods of Political Science	3
20203 Introduction to Political Theory	3
or 20303 International Politics	3
30103 Topics in American Politics	3
30303 Topics in International Politics	3
30403 Topics in Public Law	3
30503 Topics in Comparative Politics	3
Total	24

Pass/No Credit Policy. Courses applied to any of the Department's three majors including associated requirements and the accompanying minors may not be taken on a Pass/No Credit basis except by the specific consent of a student's academic advisor, duly recorded in the student's advisement file.

Requirements for a bachelor's degree

The B.A. degree with a major in Political Science requires 27 hours of Political Science courses passed with a grade of "C" or better and a maximum of 12 hours below the 30000 level. The degree requires POSC 20093 (Scope and Methods of Political Science), 20203 (Introduction to Political Theory), 20303 (International Politics), and 30203 (Topics in Political Theory), plus 6 hours at the 30000 level in a first subfield, 6 hours at the 30000 level in a second subfield and 3 hours in a third subfield. Any "Topics" courses may be repeated provided the specific subject matter changes. Students intending to do graduate work in international or comparative fields are encouraged to continue foreign language study beyond the 20000 level. No more than six hours of internship credit may be counted. The three-hour seminar taken in conjunction with the Washington Center internship program may be counted in addition to six hours of internship. A minor is required; any minor approved for the B.A. degree is acceptable.

The B.S. degree with a major in Political Science requires 27 semester hours of Political Science courses passed with a grade of "C" or better with a maximum of 12 hours below the 30000 level. The degree requires POSC 20093 (Scope and Methods of Political Science), POSC 20203 (Introduction to Political Theory), 20303 (International Politics), and 30093 (Topics in Political Science Methods), plus 6 hours at the 30000 level in the American Politics field, 6 hours at the 30000 level in a second subfield, and 3 hours at the 30000 level in another subfield.

The B.S. degree has the following associated requirements, a total of twelve hours chosen from each of the following groups:

I. Statistics (3 hours)

DESC 20153 Statistical Analysis
MATH 10043 Elementary Statistics

II. Computer Applications (3 hours)

COSC 10403 Introduction to Computer Science COSC 10203 Computer Literacy
MANA 20103 Business Applications of Information Systems
PSYC 10514 Principles of Behavior (substitutes one-for-one for 3-hour course)

III. Methods of Social Research (3 hours)

ECON 30313 Research Methods in Economics
ECON 50343 Econometrics
HIST 30063 Introduction to Historical Research
PSYC 30503 Behavioral Research
SOC 30383 Research Methods in Sociology

IV. Enrichment of Research Skills (3 hours)

DESC 30253 Introductory Operations Research
DESC 30353 Regression Analysis
ENGL 30223 Technical Writing
ENGL 30283 Cyberliteracy
JOUR 40513 Media Analysis and Research
JOUR 40903 Research Methods for Mass Media
MARK 40113 Marketing Research
MATH 30803 Elements of Probability and Statistics
PHIL 30133 Symbolic Logic I
PHIL 30323 Philosophy of Science
PSYC 30263 Problem Solving in Task Oriented Groups

Students intending to do graduate work in the social sciences or business are encouraged to take the B.S. degree program. It is also recommended for students interested in employment in government and politics. Students should be aware that some graduate programs in the social sciences require calculus (MATH 10283 or 10524) for admission. Any "Topics" courses may be repeated provided the specific subject matter changes. Students intending to do graduate work in international or comparative fields are encouraged to study relevant foreign languages. No more than six hours of internship credit may be counted. The three-hour seminar taken in conjunction with the Washington Center internship program may be counted in addition to six hours of internship. A minor is required; any minor approved for the B.S. degree is acceptable.

The B.A. degree in Political Science with emphasis in International Relations requires 27 hours passed with a grade of "C" or better and a maximum of 12 hours below the 30000 level. Required courses are: POSC 20303 (International Politics), 20093 (Scope and Methods of Political Science), 20203 (Introduction to Political Theory), and either 30093 (Topics in Political Science Methods) or 30203 (Topics in Political Theory), plus 6 hours at the 30000 level in the International Politics field, 6 hours at the 30000 level in the Comparative Politics field, and 3 hours at the 30000 level in another field. No more than 6 hours of internship credit may be counted. The three-hour seminar taken in conjunction with the Washington Center internship program may be counted in addition to six hours of internship.

This emphasis requires an interdisciplinary minor, which consists of 18 semester hours selected from the following groups:

I. Third-year foreign language-6 hours

II. Upper division international ECON, or upper division ECON approved by the advisor-3 hours

III. Upper division, internationally-related courses from ANTH, ECON, GEOG, HIST, JOUR or RELI, selected with department approval-9 hours

No more than 6 hours of the above can be taken from any one department. Additional courses may be considered for the minor if taken at the TCU London Center, the TCU-UDLA program, or other international TCU programs, with the permission of the department.

The department strongly encourages students to participate in an international educational experience; it especially encourages an international educational experience in a setting where the student's language of study is used.

Requirements for a minor in Political Science. A minor requires 18 semester hours in Political Science passed with a grade of "C" or better. No more than three semester hours may be earned at the 10000 level and no more than nine semester hours may be earned below the 30000 level. Students must take either POSC 20093 or 20203. Any "Topics" course may be repeated provided the specific subject matter changes. No more than six hours of internship credit may be counted. The three-hour seminar taken in conjunction with the Washington Center internship program may be counted in addition to six hours of internship.

Honors Program. Political Science majors who plan to pursue Departmental Honors must be members of the Honors Program and should enroll in POSC 30003 during their junior year and POSC 40003 during the fall semester of their senior year.

Honor Society. The Department sponsors the Beta Lambda Chapter of Pi Sigma Alpha, national honor society in Political Science. Membership in Pi Sigma Alpha requires completion of a minimum of 10 semester hours of political science courses (at least six of which must be in regular classroom courses on TCU's campus and at least three of which must be advanced, i.e., 30000-level or above) and members must have at least a 3.0 GPA in political science courses and at least a 3.5 GPA overall. Applicants need not be political science majors or minors.

London Internship Program. TCU's London Internship Program is part of TCU's London Centre, which provides an academic program, as well as housing and supervision of internships. A student in any major may apply for an internship appropriate to her or his career interests. The work obligation of each intern will be either three days per week (9 credit hours) or four days per week (12 credit hours). Students may take academic courses at The London Centre to total 15 credit hours. Professor Jackson (Political Science) is the Director of the London Internship Program.

Washington Internship Program. TCU is affiliated with the Washington Center, which provides placements, supervision, and housing for students who seek a professional experience in a public or private organization in the nation's capital. Students selected for the program are required to have a minimum GPA of 3.0 and must return to TCU for at least one semester after internship. Students apply each fall, a year in advance of their internship, and are required to attend a noncredit preparatory seminar in the spring. Students may earn up to 15 hours of credit through this program, which is multi-disciplinary and available to students in any major field.

The following is a complete list of courses offered by this department. Go to Class Search on the Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

"Topics" courses are described only in terms of the field designations. The specific subjects for each such course are determined in advance and published in the Schedule of Classes each semester. The Department also prepares detailed course descriptions and circulates them among Political Science majors and other interested students each semester.

Political Science as a Discipline

10093 INTRODUCTION TO POLITICAL SCIENCE. Introduces students to varying thought on and divergent practices of politics in a variety of nations.

10433 FIRST YEAR SEMINAR: THE POLITICS OF FREEDOM AND ORDER. Introduction to an assessment of the delicate balance between maintaining order in society and guaranteeing political freedom.

20093 SCOPE AND METHODS OF POLITICAL SCIENCE. *Prerequisites: Prior completion of or concurrent enrollment in MATH 10043 (Elementary Statistics) or an equivalent course.* Introduction to political science as a field of study and to the major issues in relating theory and empirical research to the study of political behavior.

30003 HONORS IN POLITICAL SCIENCE. Examination of a significant political issue. This is generally offered on a tutorial basis and the specific topic is determined jointly by the student and the instructor. POSC 30003 and 40003 cannot be taken simultaneously.

30093 TOPICS IN POLITICAL SCIENCE METHODS. *Prerequisites: POSC 20093 or consent of the instructor and COSI 10403 (Introduction to Computer Science) or MANA 20103 (Introduction to Data Processing.)* Topics include political science methods applied to various research problems such as political behavior, public policy analysis, and program evaluation.

40003 SENIOR HONORS IN POLITICAL SCIENCE. The writing of a substantial research paper under the supervision of a three person faculty committee. A grade of "I" (Incomplete) will be carried in this course until the paper is completed. The sequence of POSC 30003 and 40003 must be planned so that 40003 is taken prior to the student's final semester of undergraduate work.

American Government and Politics

10123 ISSUES IN AMERICAN POLITICS. Introduction to the dynamics of American governmental institutions and political processes through the study of significant contemporary issues in the American political arena. The particular issues may vary from semester to semester in accordance with the changing interests of students and instructor.

10133 AMERICAN AND TEXAS GOVERNMENT. (May not be counted toward a major or minor in political science.) The American political system at national and state levels, including a survey of the federal and Texas Constitutions. This course satisfies the Texas state certification requirements for education majors.

30103 TOPICS IN AMERICAN POLITICS. Topics related to the study of American political institutions, processes, behavior, and policy, such as Congress, the Presidency, political parties and elections, interest groups, social and defense policy, and Texas politics.

Political Theory

20203 INTRODUCTION TO POLITICAL THEORY. Introduction to the normative or value dimensions of political inquiry through the study of selected "classics" in political literature.

30203 TOPICS IN POLITICAL THEORY. Topics will be selected from varying periods of Western history: ancient, medieval, modern, and contemporary. Topics may focus on individual thinkers (Hobbes), groups of thinkers (the Liberal Tradition), or on policy questions (Human Nature and Public Policy).

International Politics

20303 INTERNATIONAL POLITICS. Introduction to both the major actors and issues which comprise contemporary international politics. A major goal of the course is to familiarize students with non-western perspectives on international phenomena.

30303 TOPICS IN INTERNATIONAL POLITICS. Topics studied include such areas as U.S. foreign policy, Russian foreign policy, and various regional issues.

Public Law

30403 TOPICS IN PUBLIC LAW. The course sequence includes Gender and Sexual Orientation in Contemporary Law, International Human Rights, and several courses on American Constitutional Law. A simulation of the U.S. Supreme Court is offered in alternate years.

Comparative Politics

30503 TOPICS IN COMPARATIVE POLITICS. European politics, Latin American politics, Middle Eastern politics, developing political systems, etc.

Independent Study

40900 INTERNSHIP IN POLITICAL SCIENCE. Washington Center or at The London Centre. Full-time internships with a public or private agency in Washington, D.C. or in London, England, offered either through the Washington Center or through TCU's London Centre. The internship will allow students to integrate theory and practice in a supervised professional setting. (up to 12 sem. hrs.)

40950 INTERNSHIP IN POLITICAL SCIENCE. Internships (usually local in Tarrant County) arranged with the consent of an instructor, taken on a strictly Pass/No Credit basis. (3 sem. hrs.)

40970 INDEPENDENT STUDY IN POLITICAL SCIENCE. *Prerequisite: A specific program of study approved by instructor prior to enrollment.* (1-6 sem. hrs.)

Pre-Law

Pre-law students should complete a four-year curriculum leading to the B.A. or B.S. degree or the equivalent. Pre-legal education at TCU is not a degree program, but rather an advisory program involving courses from the University Curriculum Requirements and free elective credit hours. Law schools do not require completion of any specific undergraduate major as a condition of admission, but they do prefer a broad undergraduate liberal education. Law schools expect their applicants to demonstrate high levels of academic achievement in their undergraduate studies and to show aptitude for law school as reflected by good scores on the Law School Admission Test (LSAT).

Specialists in legal education, as well as students enrolled in law schools, emphasize the importance of the following in preparation for law school and for a legal career:

1. Obtain an outstanding command of the English language. This includes the ability to read rapidly with good comprehension, to write lucidly and grammatically, and to speak clearly and forcefully. Emphasis should be placed in courses in English composition and persuasive communication. While extensive work in literature may not of itself fulfill this objective, courses that require substantial writing assignments are very important for the pre-law student.

2. Obtain a good grounding in logic, philosophy, political theory, constitutional law, and a general understanding of social, cultural, economic and governmental processes. Apart from constitutional law, pre-legal studies should not necessarily include courses in specific legal fields that will eventually be covered in law school.

3. Develop the ability to think logically, analytically and quickly under pressure and to express ideas clearly. Courses that require a student to understand and master complex verbal abstractions are especially important. Courses in philosophy and courses with highly theoretical orientations are especially important. Mathematics courses may also be useful in developing skills with abstractions, although lawyers usually work with the sorts of verbal abstractions commonly found in the humanities and social sciences.

4. Obtain a basic grounding in accounting. A great deal of legal work requires familiarity with financial records and accounts. If such preparation is not obtained as an undergraduate, the law student is often compelled to take courses in accounting while in law school.

5. Be certain that a legal career is really desired. Many students view the law degree as a means of entry into fields for which other professional training is more appropriate. The fact that many people with law degrees enter other fields does not mean that the study of law is the best preparation for those fields; rather it often reflects the reality that law is a crowded field in which some law school graduates do not find fulfillment of their career expectations.

Donald Jackson of the Political Science Department is the University Pre-Law Advisor. Joanne Green and James Riddlesperger, Jr., both also of Political Science, serve as Associate University Pre-Law Advisors. They should be consulted early in one's studies for pre-legal academic and career counseling and for advice on the Law School Admission Test (LSAT) and on law school admission. A student must also have a primary academic advisor in the department of his/her major. Pre-legal advisement is complementary to departmental advisement, rather than a substitute for it. The University Pre-Law Office is located in Sadler Hall Room 205, (817) 257-7468.



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Religion

[Requirements for a minor in Religion.](#)

[Writing Proficiency.](#)

[Honors Program](#)

[Courses of Instruction](#)

(RELI)

Available as a major on the B.A. degree and as a minor on the B.A., B.S. and B.B.A. degrees.

The meaning of human existence in relation to ultimate reality has been a concern of all cultures past and present. Any adequate understanding of human culture must take seriously the phenomenon of religion. The academic study of religion, therefore, is a central part of a liberal arts education, at home among the disciplines called the humanities. The Department provides an informed understanding of various aspects of the Christian traditions. More broadly, it supports the University's commitment to multiculturalism and education from a global perspective through study of the cultural diversity apparent in the world's religious traditions. Interdisciplinary and foreign studies contribute to the development of such awareness and we encourage students to explore those possibilities.

Courses in the Department approach religious traditions historically, textually, philosophically, and comparatively, and consider the role of religion in society, culture, and individual life. Their aims are to introduce students to various methods and issues in the study of religion; to familiarize them with the beliefs and practices of various religious traditions; to develop their critical thinking, reading and writing skills; and to encourage them to explore and evaluate their own culturally-conditioned self-understandings and ultimate commitments. Students will find the multidimensional study of religion to be fertile ground for developing habits of mind that are excellent foundations for professional life. Those planning for seminary, graduate study in religion, or any aspect of church-related vocation will be well prepared by Department courses and well supported by faculty advisement.

Requirements for a B.A. degree with a major in Religion. Twenty-seven semester hours distributed from the various groups of the Religion curriculum as follows: one Introductory Course; four courses from Group I (one from each of the four subcategories of Group I: Biblical Studies, Historical Studies, Contemporary Developments, Other World Religions); two courses from Group II (40603 plus one other course); and two courses from Group III. At least 15 hours of the major must be in junior-level courses or higher. Freshman seminars do not count toward the major.

Pass/No Credit Option. Courses to be applied toward the major may not be taken on the Pass/No Credit basis. Religion majors may take courses in their minors on the Pass/No Credit basis.

Requirements for a minor in Religion. Eighteen semester hours distributed from the various groups of the Religion curriculum as follows: one Introductory Course; three courses in Group I (one from third digit 1 if 10013 is taken, one from third digit 5 if 10003 is taken); and one course from Group II; one course from Group III. At least 9 of the 18 hours must be in junior-level courses or higher. Freshman seminars do not count toward the minor.

Writing Proficiency. The development of writing proficiency is a vital component of the educational process. Both majors and minors are encouraged to utilize faculty assistance and the resources of the Writing Center to achieve that goal.

Honors Program. Religion majors who plan to pursue Departmental Honors must be members of the Honors Program and should enroll in RELI 30003 during their junior year, and RELI 40003 during the fall semester of their senior year. Note: RELI 30003 Junior Honors Seminar substitutes in the major for the required Senior Seminar, RELI 40603.

The following is a complete list of courses offered by this department. Go to Class Search to see which courses are being taught this semester.

Courses of Instruction

Introductory Courses

10003 UNDERSTANDING RELIGION: THE BIBLE. This course considers historical, comparative and methodological issues in the study of religion by focusing on the background and contents of the Hebrew and Christian Bibles and ways these foundational texts inform later Judaism and Christianity.

10013 UNDERSTANDING RELIGION: THE WORLD'S RELIGIONS. This course considers historical, comparative and methodological issues in the study of religion by focusing on some foundational texts, figures and ideas in major world religions.

Group I. Historic Traditions

Courses in the history and distinctive features of religious traditions.

A. Christianity and Judaism

1. Biblical Studies

20123 NEW TESTAMENT LITERATURE AND LIFE. An introduction to the writings in the New Testament with special attention to the content of the individual books, together with an understanding of the beginnings of the Christian faith seen through the study of the Gospels and the initial development of the Christian movement.

30113 JESUS AND THE GOSPELS. A careful look at early Christian gospels, including Thomas, and at how scholars construct a historical Jesus from them.

30123 PAUL AND THE EARLY CHURCH. The developing origins of Christianity, with particular emphasis on Paul and his influence.

30133 RELIGION AND THE SEARCH FOR MEANING IN THE OLD TESTAMENT. Study of the biblical books of Psalms, Proverbs, Ecclesiastes and Job within their own socio-historic contexts as a basis for investigating some of the fundamental questions of human religious experience, including the function of worship, the relationship of reason and faith, the problem of evil, and the bases of ethical behavior.

30143 LOVE AND SEX IN THE BIBLICAL WORLD. *Prerequisite: RELI 10003, 10013, or permission of instructor.* A study of male-female relationships in Israel's history, literature and religion, with attention to the relevance of biblical values to today's society.

30153 HOW TO READ THE BIBLE: STORY AND POLITICS. *Prerequisite: RELI 10003, 10013, or permission of instructor.* Explores distinctive characteristics of biblical narrative and investigates why readers produce different interpretations of biblical stories. It asks how social structures and value systems, ancient and modern, affect texts and interpreters.

30163 THE BIBLE AT THE MOVIES. *Prerequisite: RELI 10003, 10013, or permission of instructor.* Examines movies based on biblical stories to see how the Bible may be interpreted in words and visual images. Investigates how the Bible's authority is used to promote particular religious, moral, social, and political values in popular culture.

40130 ISSUES IN BIBLICAL INTERPRETATION. *Prerequisite: RELI 10003 or permission of instructor.* Examination of issues that arise from the interpretation of biblical texts. The particular issues studied will be chosen from areas of current interest or from methodological considerations (such as contemporary hermeneutics, biblical theology and ethics, or critical methodologies). (3-6 sem. hrs.)

50130 SEMINAR IN BIBLICAL STUDIES. *Prerequisite: approval of instructor.* A particular topic in Biblical Studies will be selected for detailed study. (3-6 sem. hrs.)

2. Historical Studies

30303 CHRISTIAN ETHICS. A survey beginning with the Bible and including major points of view from the early church fathers through contemporary ethicists. The student will take a position and apply it to a selected issue in Christian ethics.

30323 CHRISTIAN TRADITION: EMERGENCE TO THE RENAISSANCE. A study of developments in Christian thought, practice, and institutions from the beginnings of the church through the 15th century.

30333 CHRISTIAN TRADITION: REFORMATION TO MODERNITY. A study of developments in Western Christianity from the 16th century Reformation to the 20th century, with attention to issues of theology, institutions, and practices. Does not include religion in America.

30343 BLACK RELIGION IN THE U.S. Explores the relationship between "race" and religion and surveys African-American religious history in the United States, from the religious commitments of enslaved Africans to contemporary American black people's faiths.

40313 THE HISTORY OF RELIGION IN AMERICA. A survey of the major events and developments in religion in the United States, taking into account the development of institutions and thought patterns in terms of their interaction with the American context.

3. Contemporary Developments

30413 CONTEMPORARY CATHOLICISM. Roman Catholicism in the modern period with particular attention given to the Second Vatican Council and its intellectual and institutional implications. There will be some emphasis on American Catholicism.

30433 CHRISTIANITY AND CONTEMPORARY SOCIAL ISSUES. Explores the relationship of church and society as a resource for a critical understanding of local and international issues. Students will learn skills in social analysis and apply them to public policy recommendations.

30443 RELIGION AND POLITICS IN LATIN AMERICA: THE CROSS AND THE SWORD (POSC 30503). Study will focus on the traditional and newly-emerging interaction of Judeo-Christian ideas and institutions with the society and politics of certain Latin American countries. In comparison, the cultural bases of North American presuppositions about religion and politics will also be explored.

30453 SECTS AND CULTS IN AMERICAN RELIGION. The categories "sect" and "cult" in religion studies, with illustrations from existing groups, both within and outside the Christian tradition, e.g., Hasidic Judaism, Jehovah's Witnesses, Christian Science, Baha'i, the Amish, and Mormonism.

40403 ISSUES IN CONTEMPORARY THEOLOGY. *Prerequisite: 3 semester hours of Religion or permission of instructor.* An examination of contemporary theological issues such as the relation between faith and history, the

meaning of language about God, and the impact of religious pluralism. The relevance of such issues for the student's own theological thinking will be stressed.

B. Other World Religions

30513 HINDU RELIGIOUS PERSPECTIVES. An exploration of the diverse strands of the Hindu religious tradition (ritual, philosophical, devotional) from the Vedic period to the modern day.

30523 EAST ASIAN RELIGIOUS PERSPECTIVES. The development of diverse religious traditions (Confucianism, Taoism, Buddhism, Shinto) in China and Japan from prehistory to modern manifestations.

30533 BUDDHISM: THOUGHT AND PRACTICE. The development of Buddhism in India, Tibet, China, and Japan. Material will range from the Buddha's life to American Zen.

30543 ISLAM. The Islamic religious tradition from 7th century Arabia to current resurgence, including social, theological, and mystical dimensions. Topics include Muslim views of Allah, revelation (the Qur'an), and the Prophet Muhammad. Islam's encounter with "modernity" will also be addressed.

30553 AFRICAN RELIGIONS. Explores the world views, beliefs and practices of African Traditional Religions. Also examines the impact of Christianity and Islam on African Traditional Religions since the colonial period.

Group II. Methodological and Constructive Studies

Courses involving critical methodologies or constructive reflection on religious traditions.

30003 HONORS SEMINAR IN RELIGION. Creative dialogue between religion and other disciplines of learning, or aspects of culture.

30633 PHILOSOPHY OF RELIGION (PHIL 30323). *Prerequisite: PHIL 10003 or any religion course.* This course is centrally concerned with issues relating to the rationality and justification of religious convictions. There is also an interest in the coherence of religious concepts. Various philosophical models for understanding and evaluating religious convictions and practices are examined and applied.

30643 GOD IN MODERN THOUGHT. *Prerequisite: 3 semester hours of Religion or Philosophy.* An exploration of ideas of God as they have developed in Western theology and philosophy since the 17th century. The relation between these ideas and current models for thinking about God will be stressed.

30653 RELIGION AND THE LEARNING PROCESS. An investigation of ways theological views, understandings of perception, and theories of learning and development shape an approach to religious education.

30673 ANTHROPOLOGY AND RELIGION (ANTH 30973). Interpretations of myths, symbols and religious beliefs and practices in cross-cultural perspective; comparative functions of religion in society; religion and cultural change. Focus is on non-Western, technologically-primitive people and their religions.

30683 SOCIOLOGY OF RELIGION (SOCI 30683). An introduction to understanding the role of religion in society and to sociological methods for the study of religion. The course will introduce theories and research pertaining to types of religious experience, conversion and commitment, denominationalism, secularization, and fundamentalism. Class, gender, race and ethnicity will also be addressed as they influence religion in society.

40603 SENIOR SEMINAR. *Prerequisite: Senior standing and 12 hours in Religion.* Capstone seminar exploring selected issues, themes, or methods in the academic study of religion.

40613 CONSTRUCTIVE GLOBAL ETHICS. A critical study of ethical inquiry in a pluralistic world by focusing on proposals for a global ethic, scholarship on interreligious dialogue and research in comparative religious ethics. Students write proposals for promoting moral consensus on an international issue.

Group III. Issues, Topics, and Interdisciplinary Studies

Courses with a specific thematic or interdisciplinary focus.

20703 THE CHRISTIAN MINISTRY. Introduces the role of the minister and outlines his/her responsibilities. Special emphasis on preaching, religious education (including youth work) and pastoral care.

30713 WOMEN AND WOMANHOOD IN WESTERN RELIGION. An exploration of the ways Christianity, Judaism, and Islam have helped to shape Western attitudes toward women. The lives of representative women and their influence will be examined in some detail; readings from religious thinkers on the nature of woman will be studied.

30723 RELIGION AND SCIENCE. An exploration of the ways of knowing utilized in religion (particularly the Judeo-Christian heritage) and in science, and how these ways of knowing relate.

30733 MYSTICISM. *Prerequisite: RELI 10003, 10013 or permission of instructor.* An examination of concepts of mysticism and mystical experience. Examples will be drawn from Christian, Hindu, and Buddhist sources.

30743 RELIGION IN THE ARTS. The Arts are studied as a primary medium for the expression of religious perspectives and values. Emphasis is given to methods of analysis and interpretation, symbolism and processes of symbolization, and both historical and contemporary examples in painting, sculpture, architecture, music and film. Historical examples are taken from Western and Byzantine civilizations.

30773 INDIA: TEXTS AND TRADITIONS. (ENGL 30773) A consideration of selected classic works of religious and literary imagination in Indian culture. Versions and interpretations of the Hindu epics *Mahabharata* and

Ramayana will be examined in translation.

30783 RELIGION AND ENVIRONMENTAL ETHICS. Explores the ethical challenge of increased competition for world resources and threats to the eco-system. Examines how changing religious understandings shape moral choice in issues such as distribution of goods, care of nature and population shifts, with special attention to perspectives from the two-thirds world.

30793 RELIGION, SPORTS, AND U.S. CULTURE. Sports are often cited as the prime example of American civil religion, a set of beliefs, values, practices, and identities that bind Americans of otherwise different backgrounds. Sports have also often interacted with institutional religion, from the YMCA to the Fellowship of Christian Athletes. This course will examine both the formal and historical connections between sports and faith in the U.S. as a prism into popular religion.

30823 JESUS IN FICTION AND FILM. Over the past fifty years many creative writers and movie makers have attempted portraits of Jesus and Christ-figures in fiction and film. This course will identify the christological themes in these portraits and examine their importance for the development of contemporary Christian theology.

30833 CHRISTIANITY AND LITERATURE. This course probes the Christian theological themes (the reality of God, the person and work of Jesus Christ, the relationship between good and evil, the life and mission of the Church, and the idea of life after death) expressed in various works of post-1945 fiction and the Christian theological tradition.

30843 CROSS-CULTURAL STUDIES IN RELIGIOUS ART. *Prerequisite: RELI 10003, 10013 or permission of instructor.* Utilizing area art museums, this study is designed to explore a broad range of Western, Asian, and African art in terms of form, content and context; specifically, to acquire a broader cross-cultural knowledge of the development of art as expression of religion.

30853 WOMEN IN AMERICAN RELIGION. Explores the experiences of women in American religion with attention to the interplay between women's religious identities and their roles in the work force, families, and racial, ethnic and/or minority groups. Readings will be drawn from historical, sociological and theological works.

30873 ISLAM IN AMERICA. Explores the growth and spread of Islam in America. Introduces students to different Islamic groups and how they relate to each other. Discusses Muslims' responses to different challenges and criticism of Islam and Muslims by the media. Explains the roles of African Americans and women in Islamic institutions in America.

30883 LITERARY IMAGES OF GOD. *Prerequisite: RELI 10003, 10013, or permission of instructor.* This course examines the nature and activity of God from a variety of literary perspectives. One focus is a study of God as the protagonist of a classic of world literature, namely, the Hebrew Bible. Another focus is that of God in contemporary novels, short stories, and memoirs.

30893 CARIBBEAN RELIGIONS. Beginning with an historical account of the origins and development of religions in the Caribbean, this course views the Neo-African traditions of Vodoun, Shamanism, Santeria, Rastafarianism, and Obeah through the prism of contemporary Caribbean literature.

40003 HONORS SENIOR RESEARCH PAPER. To be written under the tutorial leadership of members of the faculty.

40700 RELIGION IN GEOGRAPHICAL CONTEXT. A seminar dealing with a significant topic such as religion in art, church history, or contemporary issues, conducted in appropriate locations in this country or abroad. Specific topic will be defined as course is scheduled. Admission to course through application by announced deadline. (1-6 sem. hrs.)

40713 RELIGION IN PERSONALITY DEVELOPMENT. *Prerequisite: Permission of instructor.* A study of religion and personality which includes consideration of selected theories of personality and their implications for understanding the development of religion in individuals.

40733 CHURCH AND STATE RELATIONS IN AMERICA. The relationships between religious institutions and civil authority in America. While providing a historic context for the study, the course is primarily issue-oriented, dealing with such topics as prayer and Bible reading in public schools, state aid to parochial schools, conscientious objection to military service, Sunday closing laws, and taxation of churches.

40900 PROJECTS IN RELIGION. Assigned special problems in religion. (1-3 sem. hrs.)

50970 DIRECTED STUDY IN RELIGION. (1-6 sem. hrs.)

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Sociology

[Courses of Instruction](#)

(SOCI)

Available as a major on the B.A. degree and as a minor on the B.A. and B.S. degrees.

Requirements for the B.A. degree with a Major in Sociology. Twenty-four semester hours in Sociology, including SOCI 20213, 30383, and 30833. Students must average a minimum of 2.0 in all letter-grade courses taken for the major. Students interested in emphases in Law, Justice and Society, or Social Inequality, or Health and Well-Being should consult with their faculty adviser. Associated Requirement: Math 10043 to be taken within the first 9 hours of sociology course work. Any approved field may be selected as a minor.

Requirements for a Minor in Sociology. Eighteen semester hours, including SOCI 20213.

Requirements for Teacher Certification in Sociology. Twenty-four semester hours, including SOCI 20213, 30383, and 30833.

Honors Program. Sociology majors who plan to pursue Departmental Honors must be members of the Honors Program and should enroll in SOCI 30003 during their junior year and SOCI 40003 during the fall semester of their senior year.

Honor Society. The Department sponsors Lambda Chapter of Alpha Kappa Delta, national honor society in sociology.

Pass/No Credit Option. All upper division courses in the major except 40610 must be taken on the letter-grade system.

CLEP. The Sociology Department approves the awarding of 3 semester hours of credit for a score of 55 on the CLEP Subject Exam in Introductory Sociology, equivalent to SOCI 20213.

The following is a complete list of courses offered by this department. Go to Class Search on Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

20213 INTRODUCTORY SOCIOLOGY. Differing patterns of human relationships; application of sociological concepts to the understanding of human behavior.

20223 SOCIAL PROBLEMS. Utilizing several sociological perspectives, current societal problems are examined. Emphasis on those problems relating to social disorganization, value conflict and deviance.

30003 HONORS SEMINAR IN SOCIOLOGICAL IDEAS. Open to honor students with 6 semester hours of sociology and/or permission of the students adviser and the instructor. A sociological analysis of the interplay of ideological and social factors in the development and decline of social systems and of present trends in world ideologies and societies, with some possible implications for the future.

30223 CONTEMPORARY TOPICS IN SOCIOLOGY. Topics of current interest in the discipline of sociology and society. Illustrative topics likely to be offered during the catalog period include: Sociology of Sex Roles, Political Sociology, The Role of Sociologists in Society. (1-6 sem. hrs.)

30243 VIOLENCE IN SOCIETY. *Prerequisite: SOCI 20213, 20223 or permission of instructor.* A survey of the major forms of violence in contemporary society. Examining the extent and distribution of violence and the sociological, anthropological, and psychological theories devised to account for violence.

30303 MARRIAGE AND THE FAMILY. The social psychology of courtship, marriage, and family relations; the social significance of the family; its origin and development; the family in transition; its organization and disorganization.

30313 CRIMINOLOGY. (CRJU 30313) *Prerequisite: SOCI 20213, 20223, or permission of instructor.* Study of crime in America, with focus on sociological theories of crime causation, treatment and prevention. The function and structure of the criminal justice system.

30343 AMERICAN MINORITY GROUPS. *Prerequisite: SOCI 20213, 20223, or permission of instructor.* Demographic, institutional, and social psychological aspects of minority group relations, with emphasis on Blacks, Hispanics, and American Indians.

30383 RESEARCH METHODS IN SOCIOLOGY. *Prerequisite: MATH 10043.* An introduction to sociological research procedures, with emphasis on the collection, analysis and interpretation of social data.

30393 SOCIOLOGY OF CORRECTIONS. (CRJU 30393) The study of correctional agencies and programs, including the social structure of the prison and its impact on the offender, deterrent and treatment effects of

correctional practices, probation and parole, and an examination of various experiments in institutional and community-based corrections.

30423 MEDIA, SELF, AND SOCIETY. A critical examination of various media, especially print, film and television, from a sociological point of view. An introduction to various theories of mass media and to current research on the effects of mass media on the human self in particular and society as a whole. The media as an agent of socialization, social control, and social discourse. Examination of videotapes of news, entertainment, sports, advertising and special events, interspersed with lectures and discussions.

30443 MEDIA IMAGES OF DRUG AND ALCOHOL ABUSE. A critical examination of how the media responds to and helps create images of a particular social problem drug abuse. An introduction to theories and research pertaining to drug abuse, to policies dealing with drug abuse and abusers, and to distinctions between justifications for the legality of some drugs and the illegality of others. Examination of various media representations (through photographs, slides, videotapes) of drugs, drug taking, drug abusing, and drug celebrating, interspersed with lectures and discussions.

30463 POPULAR CULTURE. This course examines how groups of people create alternative and novel forms of cultural expressions (popular culture), and how such expressions eventually are filtered through media, either oral, electronic or print. It also considers how the meaning of popular cultural expressions both influence and are influenced by broader and institutionalized societal arrangements.

30563 DEVIANCE AND SOCIAL CONTROL. *Prerequisite: SOCI 20213, 20223 or permission of instructor.* Theoretical and empirical literature on deviance and social control, showing how deviation arises from social interaction. Specific attention to forms of deviance including substance abuse, sexual deviance and violent behavior.

30643 SOCIOLOGY OF AGING. The sociological and social psychological examination of the impact of aging on individuals and on society. Focus is on such dimensions of aging as health status, work and retirement, family and living arrangements in later life, and death and dying. The course is primarily concerned with aging in Western mass society, especially in the U.S.

30683 SOCIOLOGY OF RELIGION (RELI 30683). *Prerequisite: SOCI 20213; SOCI 20223 or permission of instructor.* An introduction to understanding the role of religion in society and to sociological methods for the study of religion. The course will introduce theories and research pertaining to types of religious experience, conversion and commitment, denominationalism, secularization and fundamentalism. Class, gender, race and ethnicity will also be addressed as they influence religion in society.

30743 MEN, WOMEN AND SOCIETY. Critical examination of new ideas, data and theories about the roles of men and women in contemporary society. Focus is on a sociological analysis of gender stratification in our society.

30803 VICTIMOLOGY. (CRJU 30803) Major aspects of the emerging field of victimology. Topics include the historical role of victims, the nature of victimization in modern America, the victimization experience, legal aspects of victimization, victimization and the political process, solutions to victimization, and the future of victims rights and victimology.

30833 SOCIOLOGICAL THEORY. *Prerequisite: SOCI 20213 or permission of instructor.* An exploration of the foundations of sociological theory through the works of the classical theorists (e.g. Marx, Durkheim, and Weber), assessing the impact of their work on current sociological thinking and practice and on society itself. Attention will be paid to the intellectual heritage of the thinkers, their historical context and their biographical selves.

30903 LAW AND SOCIETY. (CRJU 30903) An examination of the relationship between legal institutions and social processes. Topics include the nature of law, historical evolution of legal systems, creation and organization of law in modern societies, social functions of law, and the limits of law as an instrument of social control.

40003 SENIOR HONORS RESEARCH PAPER. Offered fall only. A supervised research experience culminating in the writing of a research paper typically based on the subject matter studied in SOCI 30003: Honors Seminar in Sociological Ideas. The course is offered on a directed study basis and this must be arranged prior to the semester enrolled.

40373 SOCIAL PSYCHOLOGY: SOCIOLOGICAL APPROACHES. *Prerequisite: SOCI 20213, 20223 or permission of instructor.* Contribution of sociologists to theory and research in social psychology, including theory of conformity, reference groups, and symbolic interaction.

40383 SEMINAR IN FAMILY RESEARCH. *Prerequisites: SOCI 30303 or permission of instructor.* Research review and project on the structural interfaces between families and organizations. Special focus on areas including: ex-offenders, mental patients, alcoholics and elderly.

40463 JUVENILE DELINQUENCY. (CRJU 40463) *Prerequisite: SOCI 20213, 20223, or permission of instructor.* Its causes, treatment, and prevention; the child, the clinic, and the court; philosophical and traditional foundations of juvenile law.

40523 HEALTH, ILLNESS AND MEDICINE. *Prerequisite: SOCI 20213, 20223, or permission of instructor.* Critique of the changing structure and functioning of the institution of medicine in America and the continuing inter- and intra-institutional contention for authority. Focus on current issues, problems, and trends such as litigation, governmental financing and regulation, corporate entry into medical care, sexism in medicine, and alternative medicines and practitioners.

40533 SOCIOLOGY OF MENTAL ILLNESS. *Prerequisites: SOCI 20213, 20223, or permission of instructor.* Study of the evolving arrangements through which society responds to the disruptive actions and nonconsensual beliefs of its members. Exploration of alternative frameworks for understanding mental illness. Evidence serving to

critique practices such as involuntary commitment, allegations of danger, imposition of somatic treatments, and social exclusion. Focus on functional disorders.

40610 DIRECTED STUDY IN SOCIOLOGY. *Prerequisite: Permission of instructor.* (1-3 sem. hrs.)

40803 SOCIAL INEQUALITY. *Prerequisite: SOCI 20213, 20223, or permission of instructor.* A survey of the development, maintenance and consequences of social inequality. Focus upon contemporary American inequalities in power, wealth and prestiges and consequences thereof.

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Spanish / Latin American Studies

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(SPAN)

Placement. If an appropriate score on an Advanced Placement (AP) exam has not been offered for admission to the University, a CLEP test in Spanish may be taken on campus during one of the summer orientations or at other times by prearrangement with the Counseling Center. Six hours of credit may be granted for competence equivalent to the department's second-year courses. Also, placement into any class beyond the first semester (10153) must take a computer placement exam. Students considering a major in Spanish should bear in mind that 10000 and 20000 level courses are not counted toward a major. However, 20000 level courses may be counted toward a minor. For further information contact the Chairman of the Department of Spanish and Latin American studies, Dr. Lee A. Daniel.

Honors Program. Spanish majors who plan to pursue Departmental Honors must be members of the Honors Program and should enroll in SPAN 40623 during the fall semester of their senior year.

Sigma Delta Pi Honor Society. The department annually recognizes its outstanding students by inviting them to join Sigma Delta Pi, the national honor society for Spanish scholars.

Study Abroad. TCU and the Department of Spanish and Latin American Studies offer a wide range of opportunities for a summer, semester or academic year abroad through prestigious programs and institutions. Students may explore language, literature and other areas through TCU's sister university, the Universidad de las Americas, located in Puebla, Mexico.

Pass/No Credit Option. Courses in the major and minor must be taken for letter grades. No course that is to be applied toward any major or minor may be taken on the Pass/No Credit basis.

Requirements for a bachelors' degree

Requirements for the B.A. degree with a major in Spanish. A minimum of 30 semester hours in Spanish, exclusive of courses on the 10000 and 20000 level, are required for the major. SPAN 30423 OR 30433 are prerequisites to all higher-numbered courses; however, SPAN 30443, 30453, 30463, 30473, 30553, 30563 and 30653 may be taken concurrently with them. All majors must take SPAN 40983 and SPAN 40993. All courses in the language sequence except SPAN 10153 require as prerequisite either satisfactory completion of the previous semester or the appropriate score on the CLEP Test or AP exam.

Requirements for the B.A. degree with a major in Spanish (Regular Track). Requires 30 hours of Spanish at 30000-level or above.

Requirements for the B.A. degree with a major in Spanish (Teaching Track). Required 30 hours of Spanish at 30000-level or above.

Requirements for the B.A. degree with a minor in Spanish. Required 18 hours of Spanish at 20000-level or above.

Guide for Spanish Majors and Minors

A student may earn a minor in Spanish by successfully completing 18 hours of Spanish counting 20053 and 20063. The Spanish Major (Regular Track and Teaching Track) may be earned by successfully completing 30 hours of Spanish beginning with SPAN 30423 or SPAN 30433. Spanish majors and all students seeking teaching certification must take SPAN 40983 and SPAN 40993 during the last two semesters of study. All courses taken for the major and minor must be taken for a letter grade. Spanish majors are encouraged to study abroad. Typically, a student will have completed SPAN 20063 before studying abroad. The Spanish and Latin American Studies department offers a six hour course each summer in the Universidad de las Americas in Puebla, Mexico. Other study abroad opportunities are available. All courses in the language sequence except SPAN 10153 require as prerequisite either satisfactory completion of the previous semester, placement according to the computer placement exam, or the appropriate score on the CLEP test or AP exam.

Upon completing SPAN 20063, students are prepared to choose from the following courses:

Note: Students should take SPAN 30423 OR SPAN 30433 depending on their background.

30423 Spanish for native Spanish Speakers (for students who already speak Spanish but don't have mastery of grammar)

30433 Advanced Grammar (for non-native students who are acquiring Spanish as a second language)

30443 Conversation (to improve oral fluency)

30463 Composition (to improve writing skills)

30473 Introduction to Literary Studies (recommended for students with less experience in literary studies)

The above courses may be taken in any order and two or more may be taken simultaneously. A suggested order for a one course per semester sequence would be grammar, conversation, composition and literary studies. For courses taken simultaneously, a suggested sequence would be grammar-conversation and composition-literary studies. The completion of these courses prepares students to take any of the remaining upper division courses offered in the department.

Examples of additional upper division course offerings are the following:

30553 Culture & Civilization of Latin America

30563 Culture & Civilization of Latin America Hispanic Literature in the U.S.

40493 The topic of this course changes each semester

30583 Introduction to Literature of Latin America

40533 Literary Masterpieces: Spain

40983 Senior seminar: Grammar, Composition, Conversation

40993 Senior Seminar: Culture and Literature and any other course offered in the department.

Credit by AP exam: AP3, 6 credit hours (10153, 10163); studies begin in 20053 or 20063. AP4, 9 credit hours (10153, 10163, 20053); studies begin in 20063 or above. AP5, 12 credit hours (10153, 10163, 20053, 20063); studies begin in 30433 or above.

Secondary Teacher Certification

Students seeking certification for teaching in Spanish and Latin American Studies at the secondary school level should be advised by the departmental secondary certification advisor. Specific requirements for Spanish and Latin American Studies as a teaching field follow.

All individuals seeking Texas teaching certification with an elementary specialization (including bilingual education) or secondary teaching field in Spanish must take the TOPT (Texas Oral Proficiency Test). This test must be taken in addition to the ExCet exams required. Candidates who attain the TOPTs passing standard of advanced oral proficiency or higher will be recommended for certification. Candidates who do not meet the TOPTs passing criteria, but who have met all other coursework and certification requirements, may be recommended for a general elementary certificate or a single secondary teaching field.

Students who plan to earn a teaching certificate requiring a passing score in the TOPT must submit a language assessment from the Department of Spanish and Latin American Studies when applying to the Teacher Education Program of the University.

The following is a complete list of courses offered by this department. Go to Class Search on the Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

First Year College Spanish

10153 FIRST SEMESTER COLLEGE SPANISH. A beginning course in Spanish intended for students with no previous knowledge of the language, or insufficient knowledge to qualify for placement into a more advanced course. The four skills of comprehension, speaking, reading, and writing are taught at the elementary level, with an emphasis on oral proficiency in everyday situations encountered in Spanish-speaking countries. No prerequisite.

10163 SECOND SEMESTER COLLEGE SPANISH. *Prerequisite: SPAN 10153 or equivalent placement exam score.* Continuation of SPAN 10153.

Second Year College Spanish

20053 THIRD SEMESTER COLLEGE SPANISH. *Prerequisite: SPAN 10163, or equivalent placement exam score.* Continuation of SPAN 10163. Continuation of the development of the four language skills of listening comprehension, speaking, reading, and writing of SPAN 10163.

20063 FOURTH SEMESTER COLLEGE SPANISH. *Prerequisite: SPAN 20053, or equivalent placement exam score.* Continued development of the four language skills but with more emphasis on reading and writing and less on listening comprehension and speaking.

Upper Division College Spanish

30423 SPANISH FOR SPANISH SPEAKERS. *Prerequisite: SPAN 20063.* Can be taken concurrently with 30443, 30453, 30463 and 30473. For native Spanish speakers who do not have a mastery of grammar. Concentrates on the development of grammar, reading and writing skills.

30433 ADVANCED GRAMMAR. *Prerequisites: SPAN 20063 or equivalent placement exam score.* Can be taken concurrently with 30443, 30453, 30463 and 30473. Intended for non-native speakers, the course is an intensive review of Spanish grammar with emphasis on practical applications on listening comprehension, speaking, reading and writing.

30443 CONVERSATION. *Prerequisite: SPAN 20063 or equivalent placement score.* Can be taken concurrently with 30433, 30453, 30463 and 30473. Continued development of oral proficiency skills through intensive practice in a wide variety of common situations and topics.

30453 READING. *Prerequisites: SPAN 30423 or 34033 or equivalent placement score.* Can be taken concurrently with 30423, 30433, 30443, 30463 and 30473.

30463 COMPOSITION. *Prerequisites: SPAN 20963 or equivalent placement score.* Can be taken concurrently with 30423, 30433, 30443, 30453, and 30473. Continued development of writing skills through expository writing and essays.

30473 INTRODUCTION TO LITERARY STUDIES. *Prerequisites: SPAN 30433 or 30453.* Introduction to the techniques and theories of literary analysis, with application to all genres and selected literary texts.

30483 SPANISH FOR SPECIFIC PURPOSES. *Prerequisites: SPAN 20063.* An intensive course on Spanish with emphasis on grammar and vocabulary as it applies to a profession. Specific topics announced in advance.

30543 CULTURE AND CIVILIZATION OF MEXICO. *Prerequisites: SPAN 20063 or permission.* A study of the development of the culture and civilization of Mexico, through art, geography, history, customs, music and politics. Students typically get 6 hours credit for SPAN 30543 and 30433 or SPAN 40970. Taught on site in Mexico.

30553 CULTURE AND CIVILIZATION OF SPAIN. *Prerequisites: SPAN 30423 or 30433.* A study of the development of the culture and civilization of Spain, through art, geography history, customs, music and politics.

30563 CULTURE AND CIVILIZATION OF LATIN AMERICA. *Prerequisites: SPAN 30423 or 30433.* A study of the development of the culture and civilization of Latin America through art, geography, history, customs, music and politics.

30573 INTRODUCTION TO LITERATURE OF SPAIN. *Prerequisite: SPAN 30473.* A chronological overview of the main periods in Spanish literature, from the Middle Ages to the present.

30583 INTRODUCTION TO LITERATURE OF LATIN AMERICA. *Prerequisites: SPAN 30473.* A chronological overview of the main periods in Latin American literature, from pre-Colombian times to the present.

30653 SPECIAL TOPICS ON THE CONTEMPORARY HISPANIC WORLD. *Prerequisites: SPAN 30553 or 30563.* Rotating topics of special interest relating to the Hispanic U.S., Latin America, or Spain. Specific topics announced in advance.

30663 SPECIAL TOPICS IN LANGUAGE. *Prerequisites: SPAN 30423 or 30433.* Rotating topics of special interest relating to the Spanish language. Specific topic announced in advance.

40983 SENIOR SEMINAR: GRAMMAR, COMPOSITION, CONVERSATION. The purpose of this course is to ensure mastery of Spanish grammar, conversational fluency and the ability to express oneself clearly and convincingly in written Spanish. The successful completion of the course (a grade of C or better in order to count toward major) will ensure a satisfactory understanding of grammar, composition, and conversational study and skills as taught throughout the program.

40993 SENIOR SEMINAR: CULTURE AND LITERATURE. The purpose of this course is to integrate the knowledge of Hispanic cultures with that of Hispanic literatures. The successful completion of this course will ensure a satisfactory understanding (a grade of C or better to count toward major) of selected major literary works of the Hispanic world as well as a general and sensitive appreciation of the varied Hispanic cultures. SPAN 40993 culminates the cultural and literary study offered in the program.

Literature of Latin America

40433 LITERARY MASTERPIECES OF LATIN AMERICA. *Prerequisites: SPAN 30473.* An introduction to the major works of Latin American literature through selected texts and authors.

40443 SHORT STORY OF LATIN AMERICA. *Prerequisites: 30473.* Novellas and short stories of the nineteenth and twentieth centuries. Also studies the short story as a genre.

40453 NOVEL OF LATIN AMERICA. *Prerequisites: 30473.* The novel from its beginnings in the early nineteenth century through the present. Also studies the novel as a genre.

40463 POETRY OF LATIN AMERICA. *Prerequisite: 30473.* A chronological exploration of Latin American poets and poetic works. Also studies poetry as a genre.

40473 THEATRE OF LATIN AMERICA. *Prerequisite: 30473.* Representative dramatic works of the nineteenth and twentieth centuries. Also studies drama as a genre.

40483 HISPANIC LITERATURE IN THE UNITED STATES. *Prerequisites: 30473.* Selected major works by writers of Hispanic origin in the United States.

40493 TOPICAL READINGS IN LITERATURE OF LATIN AMERICA. *Prerequisite: 30473.* A specific author, genre, period or theme will be chosen for study. Topic announced in advance.

50413 GENERAL DESCRIPTIVE LINGUISTICS. *Prerequisite: SPAN 30423 or 30433 or permission.* Phonetics, morphosyntax of Spanish within an applied linguistic framework. Introduction to Spanish-American dialectology with special reference to the American Southwest. Principles of Spanish generative-transformational syntax.

50453 LATIN AMERICAN LITERATURE I. *Prerequisite: SPAN 30423 or 30433 or permission.* Principal movements and the works of major Latin-American writers. Lectures, collateral readings and written reports.

50063 LATIN AMERICAN LITERATURE II. *Prerequisite: SPAN 30473 or permission.* Continuation of SPAN 50453. SPAN 50453 and 50463 may be taken in reverse chronological order.

50623 SPANISH AMERICAN CONTEMPORARY PROSE. *Prerequisite: SPAN 30473 or permission.* The novel, short story and essay of Spanish America. Among the authors to be read will be Borges, Asturias, Cortazar, Fuentes, Marquez and others.

50633 SPANISH AND SPANISH AMERICAN CONTEMPORARY THEATER. *Prerequisite: SPAN 30473, or permission.* Representative dramatists.

Literature of Spain

40533 LITERARY MASTERPIECES OF SPAIN. *Prerequisite: 30473.* An introduction to the major works of Spanish literature through selected texts and authors.

40543 PROSE FICTION OF SPAIN. *Prerequisite: 30473.* The major prose fiction of Spain, including novels, short stories and essays from Cervantes to present day.

40553 POETRY/THEATRE OF SPAIN. *Prerequisite: 30473.* Selections from the poetry and/or theatre of Spain. Includes representative works from the Middle Ages to the present.

40593 TOPICAL READINGS IN LITERATURE OF SPAIN. *Prerequisite: 30473.* A specific author, genre, period or theme. Topic announced in advance.

50073 GOLDEN AGE DRAMA. *Prerequisite: 30473 or permission.* Representative plays of Lope de Vega, Tirso de Molina, Ruiz de Alarcon, Calderon and others.

50133 COMPARATIVE ROMANCE LINGUISTICS. *Prerequisite: SPAN 30423 or 30433 or equivalent.* Evolution of the Romance languages from Vulgar Latin through subsequent changes to the present day. Phonetic, morphosyntactic, and lexical changes. Influence of and borrowings from non-Romance groups. Cross-listed under French 50133.

50183 ROMANTICISM. *Prerequisite: SPAN 30473, or permission.* The literature of the Romantic period, including representative readings in prose, poetry, drama and critical theory of the first half of the 19th century.

50193 REALISM AND NATURALISM. *Prerequisite: SPAN 30473 or permission.* The literature of the post-Romantic period, including representative readings in prose, poetry, drama and critical theory of the second half of the 19th century.

50203 MODERN SPANISH DRAMA. *Prerequisite: SPAN 30473 or permission.* Readings from Benavente, Valle Inclan, Lorca, Casona, Buero Vallejo, Ruiz Iriarte, Sastre and others.

50213 MODERNISM AND THE GENERATION OF 1898. *Prerequisite: SPAN 30473 or permission.* Representative writers. Lectures, collateral readings and written reports.

50133 COMPARATIVE ROMANCE LINGUISTICS. *Prerequisite: SPAN 30423 or 30433 or equivalent.* Evolution of the Romance languages from Vulgar Latin through subsequent changes to the present day. Phonetic, morphosyntactic, and lexical changes. Influence of and borrowings from non-Romance groups. Cross-listed under French 50133.

Directed Study

40623 SENIOR HONORS THESIS. Independent projects in literature or linguistics or cultural studies resulting in a Senior Honors Thesis.

40970 DIRECTED STUDY IN SPANISH. Topic and credit hours determined by instructor. Opportunity for independent study.

Major with Teaching Emphasis

50423 SPECIAL TOPICS IN LINGUISTICS. *Prerequisites: SPAN 30423 or 30433.* An analysis of language focusing on linguistic patterns.

50433 TEACHING OF SECOND AND FOREIGN LANGUAGES. *Prerequisite: Junior standing.* Analysis of the historical and theoretical aspects affecting the acquisition and teaching of a first, second and/or foreign language. Includes the analysis of current methods, techniques and materials as well as the development of the appropriate skills needed to put these into practice.

50970 DIRECTED STUDY IN SPANISH LANGUAGES AND LITERATURES. Topic and credit hours announced

yearly. Opportunity for independent study. (1-6 sem. hrs.)

Latin American Studies

(LAST)

Available as a major on the B.A. degree.

The Departments of Spanish and Latin American Studies, History (History and Geography), Economics, Political Science, Sociology (Anthropology), Journalism, Radio-TV-Film, and Religion participate in the Latin American Studies major and minor. A minor is normally earned in a participating department but may be taken in a nonparticipating department.

While students are required to take certain courses, they are encouraged to develop a broad background by taking advantage of the flexibility of the major. Freshman seminars and other special Studies or Topics courses with Latin American content may be counted toward the major with the prior approval of the chair of the Department of Spanish and Latin American Studies. For further information contact the Chairman of the Department of Spanish and Latin American Studies, Dr. Lee A. Daniel.

Pass/No Credit Option. Pass/No Credit is not acceptable for courses in the LAST major.

Requirements for a B.A. degree with a major in Latin American Studies. At least 30 hours, with no more than 15 hours in any single department. Required of all Latin American Studies majors are:

GEOG 30503 Topics in Regional Geography (Latin American topics),
 HIST 10923 Latin American history: Colonial Period
 or HIST 10933 Latin American History: National Period;
 LAST 40003 Latin American Studies Seminar, a critical study of contemporary Latin America from various perspectives within the social sciences, the humanities, and the arts, among others.
 SPAN 30423 Spanish for Spanish Speakers
 or SPAN 30433 Advanced Grammar
 SPAN 30453 Reading
 SPAN 30563 Culture and Civilization of Latin America.

Foreign Language Requirement: SPAN 20053 and 20063, plus 6 hours at the junior level (will normally be fulfilled through the required courses as listed above).

Requirements for a minor in Latin American Studies. 18 hours of courses relating to Latin American Studies, distributed among at least three different disciplines.

Latin American Studies program courses:

Economics:

50213 Development Theory

History:

10923 Latin American History - Colonial Period
 10933 Latin American History - National Period
 30923 The United States and Latin America
 30943 The Spanish Borderlands
 30970 Topical Studies in History (Latin American topics only)
 30983 Aztecs, Incas and Mayas: The Indians of Middle and South America
 30953 History of Argentina and Chile
 30993 History of Mexico
 40713 Indians of the Greater Southwest

Spanish:

30423 Spanish for Spanish Speakers
 30433 Advanced Grammar
 30443 Conversation
 30453 Reading
 30463 Composition
 30473 Introduction to Literary Studies
 30483 Spanish for Specific Purposes
 30543 Culture and Civilization of Mexico (Taught on-site in Mexico)
 30553 Culture and Civilization of Spain
 30563 Culture and Civilization of Latin America
 30583 Introduction to the Literature of Latin America
 30653 Special Topics on the Contemporary Hispanic World (Latin American topics only)
 30663 Special Topics in Language
 40433 Literary Masterpieces of Latin America
 40443 Short Story of Latin America
 40453 Novel of Latin America
 40463 Poetry of Latin America
 40473 Theatre of Latin America
 40483 Hispanic Literature of the United States

40493 Topical Readings in Latin American Literature
40623 Senior Honors Thesis (Latin American topics only)
40970 Directed Study in Spanish (Latin American topics only)
50423 Special Topics in Linguistics
50433 Teaching of Second and Foreign Languages

Geography (Department of History):

30503 Topics in Regional Geography (Latin American topics only)

Journalism:

40543 International Intercultural
Communication (Latin American focus only)

Political Science:

30503 Topics in Comparative Politics Latin America: The Challenge of Democratization 30503 (also RELI 30443)
Topics in Comparative Politics Religion and Politics in LatinAmerica: the Cross and the Sword

Radio-TV-Film:

40623 National Cinemas: Latin America

Religion:

30443 (also POSC 30503) Religion and
Politics in Latin America: the Cross and the Sword

Anthropology (Department of Sociology):

30723 Ethnology of Selected Areas (Latin American topics only)
30923 Studies in Anthropology (Latin American topics only)

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Women's Studies

Available as a minor on B.A. and B.S. degrees.

The minor in Women's Studies is designed to provide students theoretical frameworks for recovering and analyzing women's experiences as part of a larger investigation of gender and difference and to offer opportunities to study disciplines through these frameworks.

Students will complete two required courses and a choice of four additional courses from an approved list (see below). In choosing these courses, students will take no more than two courses from any single discipline.

Required Courses:

WOST 20003 Introduction to Women's Studies: Sex, Gender and the Disciplines. This course will serve as an interdisciplinary introduction to Women's Studies, focusing on major issues, theories, and selected disciplinary applications, for which the idea of gender will provide the unifying theme. Lectures, discussions, and assignments will encourage students to recover and understand the lived experiences of women by studying concepts of gender difference. Readings will facilitate discussion and understanding of differences in age, class, sexual diversity, race, and ethnicity.

WOST 40003 Senior Seminar in Women's Studies. This is the capstone course for the Women's Studies Minor, and includes classic readings in feminist theory and an independent project. The student pursues the independent project with the guidance usually of one of the faculty members associated with the Women's Studies Program. Other faculty members may participate as approved. These projects can include either 1) a practicum with goals, progress and final reports, or 2) a theory and research project to be agreed to by the faculty member and student.

Elective Courses:

ART 30413 Women and the Visual Arts, 1500-1800
ART 30423 Sex and Modern Art
ENGL 20623 Woman in Literature and Culture
ENGL 30493 Women Poets and Poetic Tradition
ENGL 30613 Women's Lives in Memoir and Fiction
ENGL 30633 Medieval and Early Modern Women Writers
ENGL 30970 Renaissance Witch Literature
ENGL 40533 Seminar in Toni Morrison
HIST 40023 Women's History since 1500
HIST 40033 Witches, Workers and Wives
NURS 30503 Issues in Women's Health
POSC 30103 Topics in American Politics: Women in Politics
POSC 30403 Topics in Public Law: Gender and Sexual Orientation in Contemporary Law
RELI 30143 Love and Sex in the Biblical World
RELI 30713 Women and Womanhood in Western Religion
RELI 30853 Women in American Religion
RTVF 30983 Women in Film and Television
SOC 30303 Marriage and Family
SOCI 30743 Men, Women, and Society

See department listings for descriptions.

Approved list of courses is maintained in the AddRan College Office, Reed 107.

Students wishing to have more information are urged to contact one of the members of the advisory committee:

Dr. Claudia Camp (Religion)

Dr. Jean Giles-Sims (Sociology)

Dr. Joanne Green (Political Science)

Dr. Linda Hughes (English)

Dr. Rhonda Keen-Payne (Nursing)

Dr. Nadia Lahutsky (Religion)

Dr. Bonnie Melhart (Computer Science)

Ms. Marcy Paul (Women's Resource Center)

Dr. Priscilla Tate (AddRan, Emeritus)

Dr. Karen Steele (English)

Dr. Mary Volcansek (AddRan)

Dr. Melissa Young (Speech Communication)



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College of Science and Engineering

[Organization](#)

[The Bachelor of Arts Degree](#)

[The Bachelor of Science Degree](#)

[Multiple Majors](#)

The College of Science and Engineering was formed in 2000 when AddRan College of Arts and Sciences was reorganized into the College of Science and Engineering and AddRan College of Humanities and Social Sciences. Composed of the departments of Biology, Chemistry, Computer Science, Engineering, Geology, Mathematics, Nutritional Sciences, Physics and Astronomy, and Psychology, the goals of the college are to support the mission of the University; to integrate the research and undergraduate teaching missions; to prepare majors for careers and further study in science, mathematics, and engineering; to assist in the preparation of highly qualified K-12 mathematics and science teachers; and to provide experiences for all TCU students that will facilitate their becoming and continuing to be scientifically and mathematically literate citizens.

The college offers Bachelor of Science degrees with majors in 18 fields of study and Bachelor of Arts degrees with majors in 6 fields. The college also administers the Bachelor of General Studies degree. Minors are available in 12 fields.

The college is responsible for the Pre-Health Professions programs (pre-dentistry, pre-medicine, pre-veterinary medicine). The college also works in conjunction with the School of Education to offer a 3-2 program leading to a Master of Education degree and with the School of Business to offer a 3-2 program leading to a Master of Business Administration.

Administrative offices for the College of Science and Engineering are located on the 5th floor of the Sid W. Richardson Building. Sid W. Richardson also houses departmental offices of Chemistry, Computer Science, Geology, and Physics and Astronomy. Biology, Mathematics, and Psychology are in Winton-Scott Hall. Nutritional Sciences and Engineering are in the Annie Richardson Bass Building.

College administrative offices and departmental offices for Computer Science, Engineering, and Mathematics will relocate to the Tucker Technology Building when it opens for occupancy. Anticipated completion date is fall 2002.

Organization

The College of Science and Engineering is organized into 9 departments.

Departments:

Biology
Chemistry
Computer Science
Engineering
Geology
Mathematics
Nutritional Sciences
Physics and Astronomy
Psychology

Interdepartmental programs:

Environmental Earth Resources (Geology)
Environmental Science (Biology and Geology)
Neuroscience (Psychology)
Pre-Health Professions

Cooperative programs:

Biosphere - "Earth Semester" at Biosphere 2 (in conjunction with Columbia University)
Master of Education (3-2 program with School of Education)
Master of Business Administration (3-2 program with M.J. Neeley School of Business)

Degree Programs

The College of Science and Engineering administers programs which lead to the following baccalaureate degrees:

The Bachelor of Arts degree with majors in the following fields:

Biology
Chemistry
Geology
Mathematics
Physics

Psychology

The Bachelor of Science degree with majors in the following fields:

Astronomy and Physics
Biochemistry (Chemistry)
Biology
Chemistry
Combined Science (Pre-Health Professions)
Computer Information Science (Computer Science)
Computer Science
Dietetics (Nutritional Sciences)
Engineering
Environmental Science (Biology and Geology)
Environmental Earth Resources (Geology)
Food Management (Nutritional Sciences)
Geology
Mathematics
Neuroscience (Psychology)
Nutritional Sciences
Physics
Psychology

The Bachelor of General Studies degree

Minors

Astronomy
Biology
Biochemistry
Chemistry
Combined Science
Computer Information Science
Computer Science
Environmental Sciences (Biosphere 2)
Geology
Health Care Ethics
Mathematics
Nutrition
Physics
Psychology

Minors for students majoring in the College of Science and Engineering are also accepted from AddRan College of Humanities and Social Sciences, the College of Fine Arts, the College of Communication,, School of Education, the School of Business (General Business), and the College of Health and Human Sciences.

The Bachelor of Arts Degree

Students pursuing a program leading to a Bachelor of Arts degree must complete a minimum of 124 semester hours, 42 of which must be advanced (30000 level or above) from TCU, with a major and a minor selected from the approved list of majors and minors. The specific number of hours required for the major and minor may be found in the appropriate section of this Bulletin.

In addition, students must complete the following UCR for the Bachelor of Arts degree:

I. Foundations: 9 credit hours

The Foundations requirements, which include courses to refine and enhance skills in critical reading, written composition, and mathematics, allow students beginning the undergraduate curriculum to increase their proficiency in these essential skills.

A. The Writing Requirement-6 credit hours, and the Writing Emphasis Experience.

1. Writing Workshop-6 credit hours

This requirement is to be met by courses designated "Writing Workshop," with no more than 3 of these hours in freshman-level study. Writing Workshop courses assume the student's successful completion of four units of high school English.

This requirement is to be met by at least one course in various modes of composition, including analytical writing and research techniques and writing. Both writing courses are to include a reading component providing composition models of suitable kinds. Student writing in these courses is expected to increase competence in grammar, mechanics, and other conventions customary in written discourse.

AP or CLEP credit may satisfy up to 6 hours of the writing requirement.

2. Writing Emphasis Experience

To allow juniors and seniors to increase their writing skills, the University Curriculum includes a writing emphasis component.

This requirement, which ordinarily should not increase the credit hours required by the University Curriculum, is to be satisfied by two upper-division courses (3 credit hours for each) with a "writing emphasis" designation. Because any academic unit of the University may offer courses with a writing emphasis, courses satisfying other baccalaureate degree requirements may also meet the writing emphasis requirement of the University Curriculum. Writing should occur throughout the course and total a minimum of 2,500 words.

B. Mathematics-3 credit hours

This requirement is to be satisfied by Department of Mathematics courses at or above the freshman level. Appropriate courses assume the student's successful completion of 3 units of high school mathematics: two in algebra and one in geometry.

AP or CLEP credit may satisfy this requirement.

II. Explorations: 42 credit hours

The Explorations requirements assure that all baccalaureate candidates encounter certain broad areas of knowledge. Through this experience, the student will gain knowledge and perspectives by studying various domains of human knowledge and experience.

The Explorations requirements allow no more than 6 credit hours from courses in a single department or in that department's cross-listed courses. This limitation applies regardless of the UCR groups in which the department's course offerings appear. Approved integrative courses are excluded from this restriction.

Satisfactory fulfillment of the Explorations section requires completion of 42 credit hours. The College of Science and Engineering students are required to choose a course that exposes them to a non-U.S. cultural perspective as they fulfill the requirements of this section.

A. Physical and Life Sciences-9 credit hours (NOTE: Courses in mathematics, computer science, and engineering do not satisfy this requirement.)

Six (6) credit hours must be in laboratory courses such as those offered in biology, chemistry, geology, physics, and psychology.

The purpose of the requirement is to include study in scientific disciplines in which observation, deduction, and analytical reasoning are essential methods. The requirement also ensures that students gain an understanding of scientific discoveries achieved by such methods.

Courses meeting this requirement involve observing experimental parameters, recording and interpreting such observations, and drawing conclusions based on appropriate theoretical frameworks. The experimental dimension is to include appropriate mathematical concepts and applications. Students are also required to demonstrate their ability to present such material in a narrative form.

B. Social Sciences-9 credit hours

The requirement is to be satisfied by courses using the methods of the social sciences. The courses customarily will include study of institutions as they affect individuals and groups. The approach to such study is through disciplines such as economics, political science, and sociology.

C. Cultural Heritage-15 credit hours

Students must choose at least one course from each sub-section of Section C.

1. Religion-minimum of 3 credit hours

Courses satisfying this requirement examine the role of religion in human culture, with this examination directed to a single religion or to a comparative consideration of major religions. These courses include appropriate historical study as well as texts important to the religions.

2. Historical Studies-minimum of 3 credit hours

The minimum is to be met by a 3-credit-hour course in U.S. historical studies. Courses meeting this requirement make evident the methods of history. Such courses may be general in their subject matter or specific or topical in focus, but are to encourage the development of a critical and evaluative attitude toward historical texts and sources.

3. Critical Inquiry-minimum of 3 credit hours

Courses satisfying this requirement are primarily critical/evaluative in approach. This approach can be applied to modes of inquiry, to methods in various disciplines, or to public issues and contemporary views. These courses make evident the individual's responsibility for making informed decisions.

4. Fine Arts-minimum of 3 credit hours

The requirement is to be met by critical and/or historical courses studying one or more of the fine arts (e.g., theater, music, visual arts). Performance courses do not satisfy this requirement.

D. Language and Literature-9 hours

1. Foreign Language-6 hours in the same language at the 20000 level or above satisfy this requirement.

2. Oral Communication or Literature-3 hours

a. Oral Communication

This requirement is satisfied by courses directed to developing skills in oral communication; to training in clear, logical, and persuasive communication appropriate in various contexts; and to evaluating such communication.

b. Literature

Courses satisfying this requirement enable students to learn to analyze and criticize literary texts. These courses are to include appropriate historical, biographical, and ideological materials, and to be developed around a single writer or group of writers, a period, a literary form or genre, and/or critical theories by which the same works are examined by various means.

III. Physical Education: two credit hours

The Physical Education policies and exceptions listed in Requirements for Graduation in *The Bachelor's Degree* section of this bulletin also apply to the Bachelor of Arts degree.

NOTES:

1. 6 hours of UCR credits in a given department may be applied to other baccalaureate requirements in that department such as those for major, minor, etc.

2. Students transferring to TCU must complete a minimum of 6 hours in Writing Emphasis and 3 hours in Critical Inquiry courses at TCU.

3. No more than eight (8) semester hours of Physical Education activity courses may be applied toward graduation requirements.

4. Specific courses have been approved to meet the UCR. These courses are so identified in the printed schedule of classes for each term's offerings.

5. Foreign Language Requirements: Students who are not native speakers of English may satisfy the foreign language requirement for the B.A. degree by submitting to the English Language Center coordinator a score of at least 600 on the Test of English as a Foreign Language (TOEFL) and at least 5.0 on the Test of Written English (TWE). An oral interview may also be required. No academic credit is granted on this basis, but the requirement to take 6 hours of foreign language at the 20000 level may be waived.

The Bachelor of Science Degree

Students pursuing a program leading to a Bachelor of Science degree must complete the minimum number of semester hours (typically 124 or 132), 42 of which must be advanced (30000 level or above) from TCU, specified for their particular major. Specific requirements of each major are to be found in the appropriate section of this bulletin. Where a minor is called for, it is to be selected with the assistance of the student's adviser from the list of approved minors.

In addition to the specific requirements, students must complete the following UCR for the Bachelor of Science degree:

I. Foundations: 9 credit hours

The Foundations requirements, which include courses to refine and enhance skills in critical reading, written composition, and mathematics, allow students beginning the undergraduate curriculum to increase their proficiency in these essential skills.

A. The Writing Requirement-6 credit hours, and the Writing Emphasis Experience.

1. Writing Workshop-6 credit hours

This requirement is to be met by courses designated "writing workshop," with no more than 3 of these hours in freshman-level study. Writing workshop courses assume the student's successful

completion of 4 units of high school English.

This requirement is to be met by at least one course in various modes of composition, including analytical writing and research techniques and writing. Both writing courses are to include a reading component providing composition models of suitable kinds. Student writing in these courses is expected to increase competence in grammar, mechanics, and other conventions customary in written discourse.

AP or CLEP credit may satisfy up to 6 hours of the writing requirement.

2. Writing Emphasis Experience

To allow juniors and seniors to increase their writing skills, the University Curriculum includes a writing emphasis component.

This requirement, which ordinarily should not increase the credit hours required by the University Curriculum, is to be satisfied by two upper-division courses (3 credit hours for each) with a "writing emphasis" designation. Because any academic unit of the University may offer courses with a writing emphasis, courses satisfying other baccalaureate degree requirements may also meet the writing emphasis requirement of the University Curriculum.

B. Mathematics-3 credit hours

This requirement is to be satisfied by Department of Mathematics courses at or above the freshman level. Appropriate courses assume the student's successful completion of 3 units of high school mathematics: two in algebra and one in geometry.

AP or CLEP credit may satisfy this requirement.

II. Explorations: 42 credit hours

The Explorations requirements assure that all baccalaureate candidates encounter certain broad areas of knowledge. Through this experience, the student will gain knowledge and perspectives by studying various domains of human knowledge and experience.

The Explorations requirements allow no more than 6 credit hours from courses in a single department or in that department's cross-listed courses. This limitation applies regardless of the UCR groups in which the department's course offerings appear. Approved integrative courses are excluded from this restriction.

The College of Science and Engineering students are required to choose a course that exposes them to a non-U.S. cultural perspective as they fulfill the requirements of this section.

A. Physical and Life Sciences-9 credit hours (Courses in mathematics, computer science and engineering do not satisfy this requirement).

Six (6) credit hours must be in laboratory courses such as those offered in biology, chemistry, geology, physics, and psychology.

The purpose of the requirement is to include study in scientific disciplines in which observation, deduction, and analytical reasoning are essential methods. The requirement also ensures that students gain an understanding of scientific discoveries achieved by such methods.

Courses meeting this requirement involve observing experimental parameters, recording and interpreting such observations, and drawing conclusions based on appropriate theoretical frameworks. The experimental dimension is to include appropriate mathematical concepts and applications. Students are also required to demonstrate their ability to present such material in a narrative form.

B. Social Sciences-9 credit hours

The requirement is to be satisfied by courses using the methods of the social sciences. The courses customarily will include study of institutions as they affect individuals and groups. The approach to such study is through disciplines such as economics, political science, and sociology.

C. Cultural Heritage-15 credit hours

Students must choose at least one course from each subsection of Section C.

1. Religion-minimum of 3 credit hours

Courses satisfying this requirement examine the role of religion in human culture, with this examination directed to a single religion or to a comparative consideration of major religions. These courses include appropriate historical study as well as texts important to the religions.

2. Historical Studies-minimum of 3 credit hours

The minimum is to be met by a 3-credit-hour course in U.S. historical studies.

Courses meeting this requirement make evident the methods of history. Such courses may be

general in their subject matter or specific or topical in focus, but are to encourage the development of a critical and evaluative attitude toward historical texts and sources.

3. Critical Inquiry-minimum of 3 credit hours

Courses satisfying this requirement are primarily critical/evaluative in approach. This approach can be applied to modes of inquiry, to methods in various disciplines, or to public issues and contemporary views. These courses make evident the individual's responsibility for making informed decisions.

4. Fine Arts-minimum of 3 credit hours

The requirement is to be met by critical and/or historical courses studying one or more of the fine arts (e.g., theater, music, visual arts). Performance courses do not satisfy this requirement.

D. Languages and Literature-9 credit hours

If any foreign language credit is used toward this requirement, 6 hours must be taken in the same language.

1. Foreign Language-Foreign language courses at or above the freshman level satisfy this requirement. AP or CLEP credit may also be applied.

2. Oral Communication or Literature-If foreign language credit is used, the remaining 3 credit hours are to be selected from oral communication or literature; otherwise, the 9 hours are to come from oral communication and literature courses.

a. Oral Communication - This requirement is satisfied by courses directed to developing skills in oral communication; to training in clear, logical, and persuasive communication appropriate in various contexts; and to evaluating such communication.

b. Literature - Courses satisfying this requirement enable students to learn to analyze and criticize literary texts. These courses are to include appropriate historical, biographical, and ideological materials, and to be developed around a single writer or group of writers, a period, a literary form or genre, and/or critical theories by which the same works are examined by various means.

III. Physical Education: 2 credit hours

The Physical Education policies and exceptions listed in Requirements for Graduation in *The Bachelor's Degree* section of this bulletin also apply to the Bachelor of Science degree.

NOTES:

1. Six (6) hours of UCR credits in a given department may be applied to other baccalaureate requirements in that department such as those for major, minor, teaching specialty, etc.

2. Students transferring to TCU must complete a minimum of 6 hours in Writing Emphasis courses at TCU.

3. No more than eight (8) physical activities courses may be applied toward graduation requirements.

4. Specific courses have been approved to meet the UCR. These courses are so identified in the printed schedule of classes for each term's offerings.

5. Foreign Language Requirements: Students who are not native speakers of English may satisfy the foreign language requirement for the B.S. degree by submitting to the English Language Center coordinator a score of at least 600 on the Test of English as a Foreign Language (TOEFL) and at least 5.0 on the Test of Written English (TWE). An oral interview may also be required.

Multiple Majors

Students with a first major in Science and Engineering may declare an additional major in lieu of or in addition to a minor on either a B.A. or B.S. degree. The additional major may be selected from the list of Science and Engineering approved majors or may be selected from majors available in other TCU schools and colleges. Students seeking an additional major in a school or college other than Science and Engineering must have the approval of the dean of Science and Engineering and the dean of the additional major.

Students with a first major in another TCU school or college may select additional majors from those available in Science and Engineering with the approval of the dean of the first major and the dean of Science and Engineering. Students whose first major is in a TCU school or college other than Science and Engineering and who seek a second major from Science and Engineering need only satisfy the UCR requirements of the first major with one exception. If the student is meeting requirements of a Science and Engineering B.A. degree, the language requirement of 6 hours in the same foreign language at or above the 20000 level must be satisfied.

The degree awarded will be that appropriate to the major designated as the first major. All degree requirements for each major must be satisfied. These include all University Curriculum Requirements (UCR) associated with any particular major as well as all associated requirements.

Pass/No Credit Option

The department of the major controls acceptability of P/NC for studies in both the major and minor, if any. For a specific major, consult the appropriate section of the Science and Engineering section of this Bulletin. The P/NC option is not allowed in any English as a Foreign Language course offered by the English Language Center.

Transfer Credit

Students wishing to take courses at another college or university following their admission to Texas Christian University must receive approval of such courses through the office of the Dean of College of Science and Engineering **before** enrolling in them.

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Biology

[Requirements for the B.S. degree with a major in Biology.](#)

[Requirements for the B.A. degree with a major in Biology.](#)

[B.S./M.S. \(3:2\) Program in Biology.](#)

[Requirements for a minor in Biology.](#)

[Area of Specialization for Secondary Education:](#)

[Honors Program](#)

[Courses of Instruction](#)

(BIOL)

Available as a major or minor on the B.A. and B.S. degrees.

The B.A. is provided for the student who has a general interest in the biological sciences but who does not plan to pursue advanced work in graduate school or undertake professional achievements in biological sciences. Students who may plan a graduate program in biological sciences should enroll in the B.S. curriculum. Those who plan to apply to a medical college, dental college, or other professional program must meet additional requirements of such schools.

Requirements for the B.S. degree with a major in Biology. A minimum of 36 semester hours in Biology as follows: (1) BIOL 10504 and BIOL 10514, (2) BIOL 30403, (3) BIOL 30603, (4) 22 additional hours in Biology including a minimum of 3 courses with laboratories (one of which may be either BIOL 40033, 40803 or 40900.)

Associated requirements: CHEM 10113, 10123, 10122, 30123, 30122, and 30133; PHYS 10153, 10151, 10163, 10161; MATH - four semester hours of calculus are required; additional courses in mathematics, computer science or statistics are encouraged. The total semester hours for the B.S. degree is 132, including provisions for 12-22 semester hours of electives.

Requirements for the B.A. degree with a major in Biology. A minimum of 27 semester hours of Biology as follows: (1) BIOL 10504 and 10514, (2) BIOL 30403, (3) BIOL 30603, (4) 13 additional approved hours in Biology including a minimum of 2 courses with laboratories (excluding BIOL 40033, 40803, and 40900). Students who do not present credit for a high school course in chemistry will take one year of college chemistry. One year of high school or college physics is also advised. A total of 124 semester hours is required.

B.S./M.S. (3:2) Program in Biology The combined B.S./M.S. program in Biology gives a student an opportunity to obtain both a Bachelor of Science and a Master of Science degree in only five years. The advantage of saving one year of study may be attractive not only to students interested in health professions who wish to explore research activities but also students who are fully committed to attending graduate school. The program is structured so that students spend their first three years as Biology majors, completing a variety of requirements including University Core Requirements (UCR). Students enroll in their fourth year and in the next two or more years complete the degree requirements for both B.S. and M.S. degrees. Students are eligible to receive the B.S. upon satisfaction of the B.S. degree requirements. **For a detailed program format, contact the Department of Biology. Early planning is essential due to the rigors and time constraints of the program.**

Financial Aid. Students are eligible for undergraduate financial assistance during their fourth year. Assuming satisfactory progress and availability of funds, students may receive tuition remission as well as an assistantship stipend during their fifth year.

Prerequisites, Application Process and Credit Allocation. A minimum grade point average of 3.0, with a 3.2 minimum in Biology, is required for application into the program. During their junior year, students are required to take both the basic and the Advanced Biology portion of the Graduate Record Examination (GRE) and submit these scores along with an application for review by the departmental Committee on Graduate Studies and the College of Science and Engineering. If the student scores below the 60th percentile in any of the subject areas (Cell and Molecular, Organismal, Ecology and Evolution) on the Advanced Biology portion of the GRE, the student should confer with the Director of Graduate Studies for additional requirements. Before being admitted to candidacy, the student must take the regular examinations in the prescribed courses and earn a grade of "B" or better. Students are expected to have accumulated 98-101 semester hours of credit before entry into the fourth year of the program. Specific course requirements are as follows:

UCR (minus 6 hrs. Biology)	47
Biology 10504, 10514, 30403, 30603, and 3 courses with laboratories, (one of which may be either BIOL 40033, 40803 or 40900)	23-26
Chemistry 10113, 10123, 10122, (or 10114, 10124), 30123, 30122, 30133	16
Physics 10153, 10151, 10163, 10161	8
Calculus (MATH 10524)	4
TOTAL	98-101

Students are encouraged to take three hours of BIOL 40900 (Research Problems) in the summer after their third year. During their fourth year, students will be expected to take 31-34 semester hours of formal coursework. Of this, 10-13 hours will be Biology courses at the 3000 level or greater. The remaining hours must be graduate level courses, a minimum of 12 of which must be Biology courses, including BIOL 60011. The 31-34 hours taken during

the fourth year will apply towards the B.S. degree. Students will file an intent to graduate and will receive the B.S. after they have completed 132 hours, including the requirements above and a total of 36 hours of credit in Biology courses. A maximum of 19 hours of graduate course work will apply towards both the B.S. and the M.S. degrees. During the fifth year of study, students will complete additional graduate hours of course work (5-6 hours, including BIOL 60001 and BIOL 60910) needed to accumulate a total of 137 semester hours of course work. They will also perform thesis research and receive 6 hours of thesis credit.

Requirements for a minor in Biology. A minimum of 21 semester hours of Biology including a minimum of three upper division (30000 or above) courses.

For the Combined Science minor on the B.A. degree, the following courses may be applied: Biology 10504-10514, 20204, 20214, 20233 (or 30303), 30104, 30504, 30603, 40223.

Area of Specialization for Secondary Education: Students seeking certification for teaching Biology at the secondary school level should be advised by the departmental secondary certification advisor.

Specific requirements for dual fields including Biology as a teaching field follow:

Required:

10504-10514 Principles of Life Sciences 8
30403 Ecology 3
30603 Cellular, Molecular and Developmental Biology 3

Select 10-12 hours from

30104 Comparative Invertebrate Zoology 4
30124 Biology of the Vertebrates 4
30303 Microbiology 3
30504 Plant Biology 4
40123 Genetics 3
40133 Molecular Biology of the Eukaryotes 3
40404 General Animal Physiology 4

Total 24-26

Specific requirements for Single Teaching Fields and Broad Teaching Fields

Biology (Single Teaching Field)

10504-10514 Principles of Life Sciences 8
20204 Anatomy and Physiology 4
or 20214 Anatomy and Physiology
or 40404 General Animal Physiology

30104 Comparative Invertebrate Zoology 4
30124 Biology of the Vertebrates 4
30303 Microbiology 3
30403 Ecology. 3
or 30613 Natural History of North America

30504 Plant Biology 4
30603 Cellular, Molecular and Developmental Biology 3
30000 or above Advanced Biology Elective 3-4

Total 36-37

Pass/No-Credit: Courses for the major (including associated requirements) and the minor may not be taken on a Pass/No Credit basis. The only exception is BIOL 30011.

Honors Program. Biology majors who plan to pursue Departmental Honors must be members of the Honors Program and should enroll in BIOL 40001 and 40011 during their junior year and BIOL 40033 during the fall semester of their senior year.

Sigma Xi. The department is a sponsor of Sigma Xi, the Honor Society for Research in the Natural Sciences.

Biology 10504-10514 or the equivalent are prerequisites to all other courses in the department except 20204-20214, 20233, 30233, 30613, and 30803. Credit will not be given for both 20233 and 30303.

The following is a complete list of courses offered by this department. Go to Class Search on Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

10003 CONTEMPORARY ISSUES IN BIOLOGY. Two hours lecture and one two-hour laboratory period per week. A study of biology spanning contemporary issues in the biological sciences from the cellular and molecular to the ecosystem levels of biological organization. Laboratory experiences will utilize the Biology Computer Laboratory Facility for many of the laboratory exercises. Some traditional laboratory exercises will be included. Designed for non-science majors. Credit may not be earned for both BIOL 10003 and BIOL 10213, nor can 10003 be used for

Biology major credit.

10213 BIOLOGICAL CONCEPTS AND THE HUMAN EXPERIENCE. Three hours lecture/discussion per week introducing students to the basic biological concepts underlying contemporary issues experienced by human beings. The course cannot be used for biology major credit or be substituted for the following biology courses: BIOL 10504 and 10514.

10504 PRINCIPLES OF LIFE SCIENCES. Three hours lecture and one laboratory per week. *Prerequisite: A senior high school course in Biology or Chemistry.* Origin of the universe and evolution of life from the molecular level to the eukaryotic cell. Introduces the basic principles of cell structure, metabolism, Mendelian and quantitative genetics. This course is prescribed for each student declaring a major interest in Biology, Pre-medical or Pre-dental programs.

10514 PRINCIPLES OF LIFE SCIENCES. Three hours lecture and one laboratory per week. *Prerequisite: BIOL 10504.* Evolution of plants and animals with an introduction to principles of natural selection, population genetics, taxonomy, anatomy and physiology. This course is prescribed for each student declaring a major interest in Biology, Pre-medical or Pre-dental programs.

20204 ANATOMY AND PHYSIOLOGY. Three hours lecture and one laboratory period per week. The structure and function of cells and tissues; the architectural plan of the human body, and the integumentary, skeletal and muscular systems. Not available for students who are Biology majors or minors or are in the pre-medical/pre-dental program.

20214 ANATOMY AND PHYSIOLOGY. Three hours lecture and one laboratory period per week. *Prerequisite: BIOL 20204 or permission of instructor.* Structure and function of the nervous, circulatory, digestive, respiratory, excretory, reproductive and endocrine systems of the human body. Not available for students who are Biology majors or minors or are in the pre-medical/pre-dental program.

20233 BASIC MICROBIOLOGY. Two hours lecture and one laboratory period per week. Microorganisms and the manner in which they affect health; characteristics, growth requirements, methods of transfer, and reactions of the body toward invading organisms and the principles underlying immunity. Not available for students who are Biology majors or minors or are in the pre-medical/pre-dental program.

30003 BIOLOGICAL ISSUES IN PUBLIC HEALTH. *Prerequisites: BIOL 10504-10514.* Examination of the biological bases behind a variety of current issues in public health. Critical analyses of these issues through lectures, class discussion and debate.

30011 INTRODUCTION TO BIOLOGICAL RESEARCH. One hour lecture per week acquainting students with the diversity of research approaches and techniques used in the field of Biology. *Prerequisites: BIOL 10504, 10514.*

30104 COMPARATIVE INVERTEBRATE ZOOLOGY. Three hours lecture and one laboratory period per week. Advanced study of ecology, phylogeny, and comparative morphology of invertebrate animals. Usually offered in fall semesters of even-numbered years.

30124 BIOLOGY OF THE VERTEBRATES. Three hours lecture and one laboratory per week. Systematics, evolution, distribution, life histories and special adaptations of the vertebrate animals.

30303 MICROBIOLOGY. *Prerequisite: CHEM 10113-10123.* A general course in microbiology. Two hours lecture and one laboratory period per week.

30233 ECONOMIC BOTANY. *Prerequisite: BIOL 10504, 10514.* The economic importance of plants for food, building, material, clothing, fuel, medicine, oils, dyes and other products.

30323 INTRODUCTION TO MARINE SCIENCE. (Geology 30323) A study of the oceans including physiography, chemical, physical, biological, and geological processes and related products.

30403 ECOLOGY. *Prerequisites: BIOL 10504-10514.* Three hours lecture per week. Principles of plant and animal ecology with introduction to terrestrial and aquatic ecosystems.

30404 COMPARATIVE VERTEBRATE ANATOMY. Two hours lecture and two laboratory periods per week. A comparative study of the morphology systems of chordates.

30463 PHYSIOLOGICAL PSYCHOLOGY. Three lectures per week. *Prerequisite: PSYC 10213, 10514, 10524 or its equivalent.* Study of the nervous system, action systems, and sensory systems as background for the physiological bases of discrimination, motivation, emotions, and learning. (Also offered as Psychology 30463.)

30504 PLANT BIOLOGY. Three hours lecture and one laboratory period per week. Study of the morphology, life history, physiology, ecology, evolution and socio-economic aspects of plants./ Coverage includes the cyanobacteria, fungi and algae. Usually offered in fall semesters of even-numbered years.

30603 CELLULAR, MOLECULAR, AND DEVELOPMENTAL BIOLOGY. *Prerequisites: BIOL 10504-10514.* Three hours lecture per week. Basic structure and function of plant and animal cells; molecular genetics of cells and organisms; mechanisms governing cell reproduction and differentiation.

30613 NATURAL HISTORY OF NORTH AMERICA. Three hours lecture per week. A review of the variety of habits and lifeforms on the North American continent. Arctic tundra, forests, swamps, aquatic habitats, deserts, and mountains are considered in light of the unique adaptations required for associated fauna and flora. The course is designed for nonscience majors and education students with a major emphasis in biological science.

30703 PLANT SYSTEMATICS. Two hours lecture and one laboratory period per week. Characteristics of the major groups and families of flowering plants. Basic history and general principles of taxonomy and fundamental concepts of phylogeny and plant evolution. Identification of plants represented in the local flora.

30803 HISTORY OF BIOLOGY. The course traces the origin and historical development of basic concepts in biology, including the background and the work of persons who significantly contributed to the understanding and formulation of biological concepts.

40001 HONORS SEMINAR.

40011 HONORS SEMINAR.

40033 SENIOR HONORS RESEARCH IN BIOLOGY.

40123 GENETICS. *Prerequisites: BIOL 10504-10514, 30603; CHEM 10113, 10123, 10122 (OR 10114, 10124), 30123 (or concurrent enrollment.)* Three hours of lecture per week. Survey course in the study of mechanisms of inheritance with particular emphasis on molecular genetics.

40133 Molecular Biology of Eukaryotes. *Prerequisites: BIOL 10504-10514, 30603; CHEM 30123 (or concurrent enrollment) or permission of the instructor.* Three hours of lecture per week. A study of the molecular mechanisms of basic biological processes in eukaryotes with emphasis on gene regulation, the structure and function of macromolecules, cell growth and differentiation, mechanisms of diseases and applications in biotechnology.

40203 HISTOLOGY. *Prerequisite: BIOL 30603 or permission of the instructor.* Two hours lecture and one laboratory period per week. Study of basic tissues of the vertebrate body and how they differentiate.

40223 EMBRYOLOGY. *Prerequisite: BIOL 30603 or permission of the instructor.* Two hours lecture and one laboratory period per week. An introduction to developmental biology. Experimental analysis of organogenesis in amphibia using microsurgery.

40253 IMMUNOLOGY. *Prerequisites: CHEM 30123, BIOL 30303 or 20233 or permission of instructor.* Two hours lecture and one laboratory period per week. The immune system; characteristics of antigens; antibodies and their reactions; cellular and humoral aspects of immunity; immune disorders.

40300 THE TEACHING OF BIOLOGY. *Prerequisite: Written permission of the instructor of the course in which the student plans to serve.* Students attend laboratory-staff meetings and serve as laboratory instructors of one section per week in various courses. For 1 1/2 semester hours credit.

40303 HISTOGENESIS. *Prerequisite: BIOL 30603.* Three hours lecture per week on molecular mechanisms in stem-cell and tissue differentiation.

40323 DEVELOPMENTAL BIOLOGY. *Prerequisite: BIOL 30603.* Three hours lecture per week on molecular mechanisms in embryonic development.

40310 THE TEACHING OF BIOLOGY. *Prerequisite: Written permission of the instructor of the course in which the student plans to serve.* Students attend laboratory-staff meetings and serve as laboratory instructors of one section per week in various courses. For 1 1/2 semester hours credit.

40404 GENERAL ANIMAL PHYSIOLOGY. Three hours lecture and one laboratory period per week. *Prerequisites: PHYS 10153-51, 10161-61, and CHEM 30123, 30122, 30133, or permission of instructor.* Basic functions of animal bodies will be studied in terms of physical and chemical principles; quantitative physiological experiments will be demonstrated and conducted.

40501 BASIC BIOCHEMISTRY LABORATORY. (See Chemistry 40501) *Prerequisite: Prior completion or co-registration in BIOL 40503.* One three-hour laboratory per week. Analysis of chemicals found in body fluids. Includes clinical methods and pathology.

40503 BASIC BIOCHEMISTRY. (See Chemistry 40503) *Prerequisite: Chemistry 30123 or equivalent.* Three hours lecture per week. Fundamental chemical properties, analysis techniques, metabolism and clinicopathology of proteins, lipids, carbohydrates, enzymes and hormones.

40803 BIOLOGICAL RESEARCH AND WRITING. Field and laboratory research experiences for advanced students. Nine clock hours per week are required (total 135 hrs/sem). Upon completion of an independent research project, the results will be written in a format suitable for publication in the scientific literature. Credit will not be given for both BIOL 40803 and BIOL 40900 for the same project. A student may receive credit for this course only one time. Does not substitute for BIOL 40033.

40900 SENIOR PROBLEMS IN BIOLOGY. Field and laboratory problems for advanced students. Nine clock hours per week of laboratory and/or field work are required for each semester hour of credit, for up to a total six semester hours of credit. A student may receive only three hours of credit in the major for this course. Three hours of credit may also be taken for university electives. If a student has been enrolled in or will enroll in BIOL 40033 or BIOL 40803, then only up to three hours of BIOL 40900 may be taken for university elective credits.

50103 TERRESTRIAL ECOSYSTEMS. Three hours lecture per week. *Prerequisite: BIOL 10504/10514 and permission of instructor.* Concepts, principles and mechanisms of the function of terrestrial ecosystems, including ecophysiology of component species, nutrient cycling, energy flow, ecosystem stability and global ecology.

50133 BIOCHEMISTRY. (See CHEM 50133) Three hours lecture per week. *Prerequisite: CHEM 30133.* A general survey of structure and function of biologically important compounds with methods of analysis.

50143 BIOCHEMISTRY. (See CHEM 50143) Three hours of lecture per week. *Prerequisite: BIOL 50133 or CHEM 50133.* Biosynthesis, Replication of DNA, Synthesis and processing of RNA and proteins and special topics, e.g., brain and muscle function, hormones and signal transduction, cancer, development etc.

50303 SYSTEMATICS AND EVOLUTION. Three hours lecture per week. *Prerequisite: BIOL 30403.* Concepts of classical and numerical taxonomy and the principles of phylogeny, organic evolution and speciation.

50313 BIOGEOGRAPHY. *Prerequisite: BIOL 30403 or permission of instructor.* Three hours of lecture per week. An ecological approach to the study of the distribution of plants and animals, and their communities.

50324 TECHNIQUES IN CELL AND MOLECULAR BIOLOGY. Three hours of lecture and one 3-hour laboratory per week. *Prerequisite: Concurrent enrollment in Biology or Chemistry 50133 or equivalent and permission of instructor.* Survey of techniques central to molecular and cellular biology, including centrifugation, chromatography, electrophoresis, spectrophotometry and radioisotopes.

50463 FUNDAMENTALS OF NEUROSCIENCE. Three lectures per week. *Prerequisite: Senior or graduate standing, or approval of instructor.* Fundamentals of functional neuroanatomy and neurophysiology, with an emphasis on experimental and theoretical analysis of basic brain-behavior relationships. (Also offered as PSYC 50463).

50472-50482 LABORATORY IN PHYSIOLOGICAL PSYCHOLOGY AND NEUROSCIENCE. *Prerequisite: PSYC 30463 or its equivalent or PSYC 50653 or its equivalent, or concurrent registration in either PSYC 50463 or PSYC 30463.* One lecture and one laboratory per week. Emphasis will be on the laboratory techniques employed in physiological psychology and neuroscience in analyzing the neural and hormonal correlates of behavior. (Also offered as PSYC 50472-50482.)

50502 BIOCHEMISTRY LABORATORY. Two four-hour laboratory periods per week. *Prerequisite: BIOL 50143 or CHEM 50143 or concurrent registration.*

50602 PREPARATION OF ENVIRONMENTAL IMPACT STATEMENTS. *Prerequisite: Permission of instructor.* Two laboratory periods per week. The methodology of environmental impact statement preparation from initial collection of data to final report drafting. Problem-oriented exercises in which students can learn to take the initiative in EIS preparation. (Also offered as GEOL 50602).

50703 ECOLOGY OF LAKES AND STREAMS. *Prerequisite: BIOL 30403 or permission of instructor.* Two hours lecture and one laboratory per week. Study of the physical, chemical and biological factors affecting the ecology of lakes, ponds and streams.

50713 MARINE ECOLOGY. *Prerequisite: BIOL 30403 or permission of the instructor.* Two hours of lecture and one laboratory per week. A study of marine communities and factors that influence the distribution of marine organisms. At least one field trip to the Texas coast to sample marine communities. Samples collected during the field trip will be analyzed by students in the laboratory.

50773 INTRODUCTION TO ENVIRONMENTAL LAW. (See GEOL 50773) *Prerequisite: Enrollment in Environmental Sciences, Master of Science Program, or senior standing with appropriate major (biology, geology, chemistry or other science; engineering; pre-law; business management.)* Three hours lecture per week. Introduction to and analysis of selected federal statutes regulating environmental degradation and environmental clean-up, including the National Environmental Policy Act and regulation of air quality, water quality, wastes, hazardous and toxic substances and enforcement.

50803 ECOLOGY OF FISHES. *Prerequisite: Biol 30403 or permission of instructor.* Two hours lecture and one laboratory period per week. Ecology of fishes, basic techniques of fisheries management

50813 MEDICAL MYCOLOGY. Three hours lecture per week. *Prerequisites: BIOL 30303 (20233), CHEM 30123, 30133, or approval of instructor.* Study of the causative etiological agents of the systemic mycoses, their isolation and identification.

50883 INTRODUCTION TO ENVIRONMENTAL ENGINEERING TECHNOLOGY. *Prerequisite: Permission of instructor.* Introduction to fundamentals of pollution control technology; impact of federal and state legislation on the construction, modification and control of industrial plants. Other topics include hazardous pollutants, modification to ambient quality, and basic pollution modeling. (Also offered as GEOL 50883.)

50903 TROPICAL BIOLOGY. Two hours lecture per week, one week of field work in the tropics and a terminal project. *Prerequisites: Six semester hours in Biology; permission of instructors.* Travel costs are exclusive of tuition. Systematics and ecology of tropical marine invertebrates and terrestrial vertebrates and terrestrial vertebrates with emphasis on Cnidarians, Arthropods, Mollusks, and Reptiles.

50923 HERPETOLOGY. One hour lecture and two three-hour laboratories per week. *Prerequisite: Permission of instructor.* Classification, laboratory and field identification and seminars on natural history, ecology, evolution and behavior of reptiles and amphibians.



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Biosphere2 Center

TCU students have the opportunity to "Study Abroad" at Columbia University's Biosphere2 Center in Arizona. Participation of TCU students in the innovative educational EARTH SEMESTER is limited, and by selection of TCU's Biosphere2 Faculty Committee.

The Earth Semester uses study of planet ecosystems to provide a common orientation for learning in several disciplines. Its goal is to teach skills that will help structure student interactions with the Earth and its inhabitants throughout their lives. These skills fall into the following areas: scientific method, data analysis, team work, field work, interdisciplinary communication, systems thinking/modeling and written and oral presentation. Earth Semester Labs include field work in the Sea of Cortez, the Grand Canyon, the Santa Catalina Mountains, and other destinations where students can learn directly from their surroundings.

Applications for participation may be obtained from Leo Newland, Director, Environmental Sciences Program, TCU, in the semester prior to beginning the 16 week Earth Semester Program in Arizona. Students successfully completing Earth Semester receive 16 semester hours - 7 hours advanced (30000 level) geology, 6 hours advanced (30000 level) biology, and 3 hours of UCR advanced (30000 level) social science credit in economics. Costs for TCU students are similar to those for a normal semester at TCU since participants are enrolled at TCU while studying at the Arizona Biosphere2 Center. Because TCU subsidizes its students' participation in the Earth Semester, students MUST apply through the TCU Biosphere2 Faculty Committee and not directly to Columbia University or Biosphere2.

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Business (3-2 Program)

The College of Science and Engineering and M.J. Neeley School of Business offer a combined program leading to a bachelor's degree in Arts and Sciences and a master's degree in Business Administration (MBA). The Three-Two Program, as it is called, takes five years to complete. (Note: Students intending to pursue the 3-2 program should make their plans known, as early as possible, to the Science and Engineering Dean's Office.)

Students interested in the program spend the first three years in Science and Engineering completing the University Curriculum Requirements and meeting the requirements of their major field. During the third year of study, application is made to the MBA program. To be considered for admission, applicants must have completed, or anticipate completing by the end of the third year, a minimum of 100 hours in nonbusiness courses and finished all major requirements and UCR requirements. Applicants must submit the usual application materials, including scores from the Graduate Management Admission Test (GMAT), and must present above-average academic records.

If admitted, a student enters the MBA phase of the Three-Two program in the fourth year of study at TCU. The first year of the MBA meets the minor requirements of the undergraduate degree. After successful completion of the first year of the MBA program, the student may petition the Dean of Science and Engineering to be awarded the undergraduate degree.

Business is available as a minor on the B.A. and B.S. degrees. For requirements, see the School of Business section.

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Chemistry

[Requirements for a minor in Chemistry](#)
[Honors Program](#)
[Courses of Instruction](#)

(CHEM)

Available as a major or minor on the B.A. and B.S. degrees. Biochemistry available as a major on the B.S. degree.

Requirements for the B.S. Degree with a major in Chemistry. A minimum of 38 hours, on a 132-hour degree, consisting of CHEM 10113-10123, 10122 (or 10114-10124), 30123-30133, 30122-30132, 40113-40123, 40132, 40091 (2 hours), 50162, 50163, 50282 and with one additional course chosen from 20104, 50133, 40200 (3 hours) or 40003-40013. Professional certification by the American Chemical Society requires the student to take Chemistry 20104, 50133, 40091 (1 hour), and either 40200 (3 hours) or 40003-40013 which results in a minimum of 44 hours of chemistry. **Associated Requirements:** Physics 20473-20471, 20483-20481; Math 10524, 20524, 30224; and Computer Science 10403 (or 10203). Math 30524 is recommended.

Requirements for the B.S. Degree with a major in Biochemistry. A minimum of 38 hours, on a 132-hour degree, consisting of CHEM 10113-10123, 10122 (or 10114-10124), 30123-30133, 30122-30132, 40091, 40164, 40200 (4 hours, or 40003-40013), 50163, 50133-50143, and 50502. Professional certification by the American Chemical Society requires the student to take Chemistry 20104 and 40113-40123-40132 instead of 40164 which results in a minimum of 46 hours of chemistry. **Associated Requirements:** Biology 10504, 10514, 30603, and one of the following: Biology 40123, 40133, or 40404. Physics 20473-20471, 20483-20481; Math 10524, 20524, and either Math 30803 or Computer Science 10403 (or 10203).

Requirements for the B.A. Degree with a major in Chemistry. A minimum of 24 hours normally consisting of CHEM 10113, 10123, 10122 (or 10114-10124), 30123, 30122, 40164 (or 40113, 40123, 40132) and suitable electives chosen from 20104, one hour of 40091 or upper level courses with the exclusion of 40503, 50111 and 50120. A total of 124 hours is required for the B.A. degree. Any minor approved by the College of Science and Engineering is acceptable. The B.A. degree in Chemistry is devised for the student with a general interest in the field who does not plan to pursue advanced work in graduate school or in professional activities. The student planning a professional career in Chemistry is strongly advised to satisfy the requirements of the B.S. degree.

Requirements for a minor in Chemistry. 18 semester hours to include 10113-10123, 10122 (or 10114-10124), 30123-30122, and 40164 or 20104.

Honors Program. A student may obtain Department Honors in Chemistry by successfully completing 6 hours of senior honors research (CHEM 40003 and 40013) or three hours of senior honors research plus three hours of study in a course approved by the department as one promoting the student's development as a research scholar. Such a course should be in addition to those normally required to achieve the baccalaureate degree. Requirements also include the writing of a Senior Honors Research paper which is approved by an appropriate committee and the achievement of an overall GPA of 3.5 or greater.

Sigma XI. The department is a sponsor of the TCU Chapter of Sigma XI,

Pass/No Credit Option. Courses to be applied toward the major or minor may not be taken on the Pass/No Credit basis.

NOTE: CHEM 10113-10123 and 10122 provide credit equivalent to CHEM 10114-10124, which are Honors General chemistry for science majors.

Credit will not be awarded for more than one of the general chemistry sequences (10113-10123-10122 or 10114-10124).

On special occasions, a given prerequisite may be waived at the discretion of the instructor.

The following is a complete list of courses offered by this department. Go to Class Search on Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

10113-10123 GENERAL CHEMISTRY. Three lecture hours per week. Introduction to the principles of chemistry, illustrating the central position of the discipline among the sciences. (Successful completion of 10113 or the equivalent is a prerequisite for 10123.)

10122 GENERAL CHEMISTRY LABORATORY. One lecture and one 3-hour laboratory session per week.
Prerequisites: CHEM 10113 and prior or concurrent enrollment in 10123.

10114-10124 GENERAL CHEMISTRY (Honors). Three hours of lecture and one 3-hour laboratory per week. A study of chemical structure, states of matter and chemical dynamics with emphasis on the quantitative nature of the science of chemistry.

10163 GENERAL CHEMISTRY FOR NON-SCIENCE MAJORS. Three hours lecture, and one three-hour

laboratory period per week. Topics of interest to students e.g. drugs, AIDS, etc. and national and international problems such as air and water pollution will be examined to understand their chemical origins and potential solutions.

20104 QUANTITATIVE ANALYSIS. Two hours lecture and two laboratory periods per week. *Prerequisites:* CHEM 10122-10123, or 10124 or permission of instructor. Theory and practice of volumetric and gravimetric analysis; introduction to instrumental analysis.

30123 ORGANIC CHEMISTRY. Three hours of lecture per week. *Prerequisite:* CHEM 10122-10123 or 10124. A survey of the classes of organic compounds with regard to nomenclature, structure, and reactions.

30122 ORGANIC CHEMISTRY LABORATORY. One hour of lecture and one 4-hour laboratory per week. *Prerequisite:* CHEM 10122-10123 or 10124 and prior or coregistration in CHEM 30123. Techniques of purification, characterization, and synthesis of organic compounds.

30133 ORGANIC CHEMISTRY. Three hours of lecture per week. *Prerequisite:* CHEM 30123. Stereochemistry, organic reaction mechanisms, and synthesis of organic compounds.

30132 ORGANIC QUALITATIVE ANALYSIS. One hour of lecture and one 4-hour laboratory per week. *Prerequisite:* CHEM 30123, 30122 and 30133 or concurrent registration. Chemical and instrumental means of identifying unknown organic substances.

40003-40013 SENIOR HONORS RESEARCH PROJECT. A project in chemical research carried out under the direction of a member of the chemistry faculty and designed to partially fulfill the requirements for Departmental Honors in Chemistry. Hours arranged.

40091 SEMINAR. The chemical literature, modern research techniques and recent developments in chemistry may be topics considered. Two semesters of 40091 are required for the B.S. degree with a major in chemistry. Since the course is offered in the Fall semester only, these are normally taken in the Fall semesters of the junior and senior years.

40113-40123 PHYSICAL CHEMISTRY. Three hours lecture per week. *Prerequisite:* CHEM 10123 or 10124, PHYS 20483 and MATH 30224 or concurrent enrollment. A theoretical study and explanation of a number of the more important physical phenomena as applied to the field of chemistry.

40132 PHYSICAL CHEMISTRY LABORATORY. Two 4-hour laboratory periods per week. *Prerequisite:* CHEM 40123 or concurrent registration. Laboratory experiments designed to establish the principles of physical chemistry and methods of physical chemical measurements.

40164 INTRODUCTION TO PHYSICAL CHEMISTRY. Three hours lecture and one 4-hour laboratory period per week. *Prerequisite:* CHEM 10123-10122 or 10124. An introduction to the basic concepts of physical chemistry with particular reference to those aspects important to the biological sciences.

40200 UNDERGRADUATE RESEARCH. A project in chemical research carried out under the direction of a member of the chemistry faculty. The student must have permission from the supervising faculty member prior to registration. (1-3 semester hours).

40501 Basic Biochemistry Lab (Biology 40501). One three hour laboratory per week. *Prerequisite:* Prior completion or co-registration in Chem 40503. Analysis of chemical substances found in body fluids. Includes clinical methods and pathology. Available for chemistry credit only to majors in Nutrition and Dietetics.

40503 BASIC BIOCHEMISTRY. (Biology 40503). Three hours of lecture per week. *Prerequisite:* Chem 30123 or equivalent. Includes fundamental chemical properties, analysis techniques, metabolism, and clinical significance of proteins, lipids, carbohydrates, enzymes, and hormones. Available for chemistry credit only to majors in Nutrition and Dietetics.

50001 LABORATORY SAFETY. Required of all graduate students in chemistry, this course deals with the safe handling of chemicals, the inventory and safe disposal of chemicals, safe handling of radioactive materials and lasers as well as details of federal, state and city regulations that apply to safety in academic and industrial laboratories. The course is also required of students who will be handling radioactive materials and is highly recommended for all other graduate students in the physical sciences.

50111 LABORATORY GLASSBLOWING. One 4-hour laboratory period per week. An introduction to the preparation of laboratory research equipment constructed of sodium and borosilicate glass.

50120 TEACHING OF CHEMISTRY. *Prerequisite:* Permission of the instructor. Members of this class act as Chemistry laboratory assistants. Techniques of laboratory instruction are illustrated and the importance of laboratory safety is stressed. (1-3 semester hours.)

50133 BIOCHEMISTRY. (See Biology 50133) *Prerequisite:* CHEM 30133, 40113 or permission of the instructor. Three lecture hours per week. A general survey of structure and function of biologically important compounds with methods of analysis.

50143 BIOCHEMISTRY. (See Biology 50143) *Prerequisite:* CHEM or BIOL 50133. Biosynthesis, replication of DNA, synthesis and processing of RNA and proteins, and special topics e.g. brain and muscle functions, hormones and signal transduction, cancer, development, etc.

50163 ADVANCED INORGANIC CHEMISTRY. Three hours lecture per week. *Prerequisite:* CHEM 40123 or permission of the instructor. A survey of topics in modern inorganic chemistry with emphasis on synthesis, bonding

and the mechanisms of reactions.

50162 ADVANCED INORGANIC CHEMISTRY LABORATORY. One hour lecture and one 4-hour laboratory per week. *Prerequisite: CHEM 50163 or concurrent registration.* The laboratory emphasizes the synthesis, characterization and transformations of inorganic species.

50173 CHEMICAL INSTRUMENTATION. Two hours lecture and one 4-hour laboratory per week. *Prerequisite: CHEM 20104 and prior or concurrent registration in CHEM 40123.* Modern instrumental techniques applied to both inorganic and organic systems. Ultraviolet, infrared, and nuclear magnetic resonance spectroscopy, vapor phase chromatography, polarography, and various electrochemical methods of analysis are covered.

50183 BIOPHYSICAL CHEMISTRY. Three hours of lecture per week. *Prerequisite: CHEM 40113 and prior or concurrent registration in Chem 50143.* Biological systems are discussed from the viewpoint of physical chemical theories and methods.

50182 BIOPHYSICAL CHEMISTRY LABORATORY. Two 4-hour laboratory periods per week. *Prerequisite: Prior or concurrent registration in CHEM 50183.* Physical chemical principles applied to biochemical systems.

50223 ADVANCED ORGANIC CHEMISTRY. Three hours lecture per week. *Prerequisite: CHEM 30132, 30133 or permission of instructor.* A detailed study of stereochemistry, important organic reactions and mechanisms, organic syntheses, and fundamentals of synthetic design.

50230 SPECIAL PROBLEMS IN CHEMISTRY. Credit and hours to be arranged. Advanced work in biochemistry, inorganic, organic and physical chemistry to be determined by the previous preparation and interests of the individual student.

50263 PHYSICAL-ORGANIC CHEMISTRY. Three hours lecture per week. *Prerequisite: CHEM 30133 and prior or concurrent registration in CHEM 40123.* An introduction to modern structural theory and reaction mechanism. Includes a discussion of physical methods.

50273 INORGANIC REACTIONS. Three hours of lecture per week. *Prerequisite: CHEM 50163 or permission of the instructor.* An advanced study of the preparative and derivative chemistry of important classes of transition metal and main group element compounds.

50282 ADVANCED PHYSICAL CHEMISTRY. Two hours lecture per week. *Prerequisite: CHEM 40123.* An introduction to quantum chemistry and statistical thermodynamics is presented. Continuation of Chemistry 40113-40123.

50303 CHEMICAL KINETICS. Three lecture hours per week. *Prerequisite: CHEM 40123.* Phenomenological and theoretical aspects of the subject are stressed. Emphasis is placed on the study of rates of reaction as a means of elucidating reaction mechanisms. The study of specific gas phase and solution reactions is undertaken to illustrate basic theoretical principles as well as to distinguish molecular, ionic and free radical pathways, applications of isotope effects, activation parameters, medium effects and linear free-energy relationships are considered. Selected topics in conventional and enzyme catalysis are discussed.

50502 BIOCHEMISTRY LABORATORY. (See Biology 50502) Two four-hour laboratory periods per week. *Prerequisite: CHEM 50143 or concurrent registration.*

50783 ENVIRONMENTAL CHEMISTRY. (See Geology 50783) *Prerequisites: CHEM 10113-10123 and CHEM 10122, or CHEM 10114-10124 or permission of the instructor.* Three hours of lecture per week. Chemistry of water, soil, energy, and air as related to environmental problems. Subjects include: nutrients and eutrophication, fluorocarbons, sulfur and nitrogen oxides, Eh-pH relationship, natural carbonate reactions, and cation exchange phenomena.

50993 NEUROCHEMISTRY. Three lecture hours per week. *Prerequisite: CHEM 50133 or permission of instructor.* The elucidation of biochemical phenomena that subserve the characteristic activity of the nervous system or are associated with neurological diseases.

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Combined Science

Available as a minor on the B.A. and B.S. degrees. A major in combined science for individuals seeking broad-field science secondary teaching certification has been proposed. Contact the College of Science and Engineering or the School of Education for information concerning the status and requirements for this program.

Requirements for the minor follow one of these two patterns:

1. Three sequences, 6-8 hours each, from three different departments chosen from Group I below, plus two Group II courses, 6-8 hours, in one of these three departments, or
2. Two sequences, 6-8 hours each, from two different departments chosen from Group I below, followed by 6-8 hours in each of these two departments chosen from Group II.

At least 6 semester hours of the combined science minor must be in courses numbered 30000 or higher.

Group I:

Biology: 10504-10514

Computer Science: 10403 and 20203

Chemistry: 10113-10123-10122 or 10114-10124

Geology: 10113 and 10123 or 10143

Mathematics: 10524, 20524

Physics: 10153, 10163, 10151, 10161 or 20473, 20471, 20483, 20481

Group II:

Biology: 20204, 20214, 20233 (or 30303), 30104, 30203, 30343, 30404, 30504, 30603, 40223

Chemistry: 20103, 30122/30123, 30132/30133

Computer Science: 20803, 30203, 30253, 30403

Geology: Any courses numbered 20000 or higher

Mathematics: 30133, 30163, 30224, 30524, 30803, 40853, 50323, 50403, 50613, 50703

Physics: 20013 or 20073, 20023 or 20083, or any courses numbered 30000 or higher.

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Computer Information Science

[Courses of Instruction](#)

(CISC)

Computer Information Science is available as a major on the B.S. degree and as a minor on the B.A. and B.S. degrees.

Requirements for the B.S. degree with a major in Computer Information Science: 40 semester hours of Computer Information Science and Computer Science to include COSC 10403, 20203, 20533, 30603, 40943, 40993; CISC 20703, 30103, 30153, and 13 hours of approved COSC or CISC electives. No more than 4 hours of CISC 20970 may be counted toward these requirements.

Additional requirements include:

MATH 10043
MATH 10283 or 10524
SPCO 10123 or 20103

A minor is required. Minor in Computer Science is not allowed for the Computer Information Science degree. A minimum of 124 semester hours is required for this degree.

Requirements for a minor in Computer Information Science: 18 hours of COSC and CISC courses including: COSC 10403, COSC 20203, COSC 20533, CISC 20703, and an additional 6 hours selected from 30000 and 40000 courses.

The following is a complete list of courses offered by this department. Go to Class Search on Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

20104 PROGRAM DEVELOPMENT WITH VISUAL BASIC. *Prerequisites: Two years of high school algebra or Math 10023.* Introduction to the design and development of computer programs using the Visual Basic programming language. Includes an introduction to graphical user interfaces, object-oriented programming concepts, programming language constructs, algorithm design, programming techniques and program development.

20153 ISSUES IN ELECTRONIC COMMERCE. *Prerequisites: COSC 10403.* Examines the unique aspects of conducting business over computer networks. Legal and ethical requirements associated with electronic commerce, as well as risks to the public, are given special consideration. Case studies of firms involved in electronic commerce are used to illustrate various concepts.

20503 MULTIMEDIA AUTHORIZING. *Prerequisites: COSC 20203.* A general introduction to the history, theory, and technologies that relate to electronic communication. Topics will include the fundamental multimedia elements of text, graphics, sound, video, and animation. Students will participate in team projects designed to create materials for publication on the Internet and CD-ROM.

20703 INTRODUCTORY APPLIED STRUCTURES. *Prerequisites: CoSc 20203.* Elements of discrete math and data structures necessary to lay the groundwork for advanced courses. Topics include propositional and predicate logic, set operations, mathematical induction, recursive definition, lists, trees, graphs, stacks, queues, sorting, and searching methods.

20970 TOPICS IN COMPUTER INFORMATION SCIENCE. *Prerequisite: COSC 20203.* Topics of current interest. May be repeated for credit when the topic changes. (1-3 sem. hrs.)

30103 SYSTEM AND NETWORK ADMINISTRATION. *Prerequisites: COSC 20203.* Overview of operating system services and objectives. Installation and maintenance of Unix, Windows, and Macintosh operating systems. Issues in heterogeneous and homogeneous network maintenance and resource sharing. Introduction to scripting.

30153 INTERFACE DESIGN AND SCRIPTING FUNDAMENTALS. *Prerequisites: COSC 20203.* Fundamental principles of interface design. Using scripts to assemble existing programs into new applications. Topics include GUI and web site design, and cgi-bin applications utilizing platform independent scripting languages.

30703 INSTRUCTIONAL SYSTEMS DEVELOPMENT. *Prerequisites: CISC 20503 and CISC 30153.* This course provides students with a foundation in the history, theory, organization, technologies and instructional procedures used in distance education/training. Various delivery systems that pertain to distance learning will be investigated as will future trends in training/instructional applications.

40453 COMPUTING INTERNSHIP. *Prerequisites: Junior standing, 2.5 GPA in major, and approval of department chair.* Practical experience in computer and information science. Must include a minimum of 260 work hours in approved practical experience situation. Includes 7-8 hours of class meetings. This course may only be taken pass/no credit. Open to CS and CIS majors only.

40773 ADMINISTERING COMPUTING RESOURCES. *Prerequisites: CISC 30103.* Tasks of the computer center manager are studied in the context of the role of administrative decision maker. Management processes, models for tradeoff decisions, behavior concepts, leadership, team dynamics, and infrastructures are covered. Both centralized and distributed models with multiple platforms and networked delivery are considered.

40913 ADVANCED TOPICS IN COMPUTER INFORMATION SCIENCE. *Prerequisite: Permission of the instructor.* Advanced topics of current interest. Students will study current literature. May be repeated for credit when the topic changes.

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Computer Science Programs

[Courses of Instruction](#)

(COSC)

Computer Science is available as a major on the B.S. degree and as a minor on the B.A. and B.S. degrees.

This program in computer science is accredited by the Computer Science Accreditation Commission of the Computing Sciences Accreditation Board, a specialized accrediting body recognized by the Council on Postsecondary Accreditation (COPA) and the U.S. Department of Education.

Requirements for the B.S. degree with a major in Computer Science. Major: 42 semester hours of Computer Science, of which 36 hours must be COSC 10403, 20203, 20803, 30203, 30253, 30353, 30403, 30603, 40203, 40603, 40943, and 40993; and six hours of approved Computer Science electives shall be selected from courses at the 30000 level or above. **Mathematics and science:** 32 hours which must include (1) 17 hours of Mathematics (MATH 10123, 10143, 10524, 30224, and 30803), and (2) a two-semester science sequence (including laboratories) plus two additional one-semester science courses. All science courses must be selected from Biology, Chemistry, Geology, or Physics. Courses for non-science majors may not be counted in this category. A minimum of 132 semester hours is required. A Computer Science major must have a minimum 2.2 GPA in all Computer Science course work to graduate.

Requirements for a minor in Computer Science: 18 hours of Computer Science including: 10403, 20203, 20803, 30203, and an additional 6 hours selected from 30000 and 40000 level courses.

Secondary Teaching Certification. Students seeking certification for teaching Computer Science at the secondary school level should be advised by the departmental secondary certification advisor. Specific requirements for Computer Science as a teaching field are: 24 semester hours of Computer Science of which 12 hours must be COSC 10403, 20203, 20803, and 30203; and 12 hours selected from 30000 level or above courses.

Honors Program. Computer Science and Computer Information Science majors who are members of the Honors Program and who have a minimum 3.5 GPA in the major may pursue Departmental Honors by enrolling in COSC 50970 during the fall of their senior year and preparing a Senior Honors Project.

Pass/No Credit. Students declaring a major in Computer Science may not elect the Pass/No Credit option in any Computer Science course. There are no restrictions on the minor.

Association for Computing Machinery. The department sponsors a student chapter of the Association for Computing Machinery (ACM), an international organization for computer scientists.

IEEE/CS. The department sponsors a student chapter of the Institute of Electrical and Electronics Engineers/Computer Society, an international organization for computer scientists.

Upsilon Pi Epsilon. The department sponsors a chapter of Upsilon Pi Epsilon, the International Honor Society for the Computing Sciences.

Sigma Xi. The department is a sponsor of the TCU chapter of Sigma Xi, the Honor Society for Research in the Natural Sciences.

The following is a complete list of courses offered by this department. Go to Class Search on Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

10052 APPLIED PROGRAMMING. (ENGR 10052) *Prerequisites:* MATH 10524. Elements of structured programming with emphasis on scientific computing. Application to numerical computation and simulation in engineering.

10203 COMPUTER LITERACY. Two hours lecture and one and a half hours of laboratory per week. Introduction to the history of computers, computer organization, and principles of operation. Hands-on experience utilizing a variety of computer software tools including word processing, database management, graphics, spreadsheet, and internet applications.

10403 INTRODUCTION TO PROGRAMMING. *Prerequisite:* Two years of high school algebra or Math 10023. Introduction to computers, problem solving, algorithm design, and programming techniques. Includes what a computer is (and is not), problem organization, data representation, and how to utilize the computer to solve problems. Numerical and non-numerical problems are solved in a high-level programming language.

20101 ASSEMBLER FUNDAMENTALS. *Prerequisite:* COSC 10403. Computer structure, machine language, instruction execution, addressing modes, and internal representation of data. Several assembler language programming assignments are required.

20203 TECHNIQUES IN PROGRAMMING. *Prerequisites: COSC 10403 or equivalent.* A study of program design, development and programming techniques. Structured programming with problems selected from list processing, string processing, and file manipulation.

20533 COMPUTERS, TECHNOLOGY, AND SOCIETY. *Prerequisite: none.* In addition to the benefits from the introduction of new technologies, the costs and risks of such changes should be considered. Class discussions will examine the social, political, legal, and ethical aspects of technology, with an emphasis on computer technology. Experimental activities and selected readings will provide a basis for the discussion. Credit will not be given for both COSC 10433 (Freshman Seminar) and COSC 20533.

20803 DATA STRUCTURES. *Prerequisites: COSC 20203 and MATH 10123.* Basic concepts of data. Linear lists, strings, and arrays. Representation of trees and graphs. Storage systems and structures. Symbol tables and searching techniques, sorting techniques. Formal specification of data structures and data structures in programming languages.

20970 Topical Studies in Computer Science. *Prerequisites: COSC 20203.* Courses dealing with a particular area of investigation in computer science. The topics will be changed from semester to semester and the course may be repeated when the topic is different. (1 - 3 sem. hrs.)

30203 Computer Systems Fundamentals. *Prerequisite: COSC 20803 or CISC 20703.* Introduction to assembly language and the corresponding machine representation, assemblers, linkers, and loaders. Study of the design and implementation of 2-pass assemblers with special attention to symbol tables and the problems of resolving forward and external references.

30253 COMPUTER ORGANIZATION. (ENGR 30573) *Prerequisites: COSC 30203 (may be concurrent) and MATH 10123.* Treatment of sequential and combinatorial circuits including flip-flops, multiplexers, decoders, adders, registers, counters. Design of functional components of a computer including memory, ALU, control unit, busses. The tradeoffs of alternative architectural features such as word size, instruction sets, addressing modes.

30353 MICROPROCESSOR BASED DIGITAL SYSTEMS. (ENGR 30583) *Prerequisite: COSC 30253.* Introduction to the design of microprocessor based digital systems including the study of processor control signals, address decoding and memory interfacing, interfacing to serial and parallel ports, A/D conversion, and interrupt processing. Features of state-of-the-art microprocessors will be discussed. Both hardware and software assignments will be required.

30403 PROGRAMMING LANGUAGE CONCEPTS. *Prerequisite: COSC 20803.* A study and comparison of the concepts and constructs of major programming language paradigms. Topics include evolution of programming languages, formal definition (syntax and semantics), data types, scope, subprograms, data abstraction. Students will review a published paper in the area of programming languages. Lab assignments are given in languages selected to illustrate paradigms.

30453 COMPUTER ARCHITECTURE. (ENGR 30593) *Prerequisite: COSC 30253.* The logical organization and functional behavior of digital computers are studied. Fundamental principles in the design of the CPU, memory, I/O devices, and bus structures are presented. Performance enhancement topics such as caching, memory interleaving, interconnection schemes, pipelining, memory management, reduced instruction sets (RISC), and multiprocessing are discussed.

30503 ADVANCED SYSTEMS PROGRAMMING. *Prerequisite: COSC 30203.* Introduction to the systems software features provided by a modern operating system. The techniques and problems associated with the use of concurrent execution of multiple tasks (spawning new tasks from within a task; intertask communications, synchronization, and termination; the use of low-level I/O primitives; and methods for dealing with mutual exclusion, race conditions, and deadlock). Students will be required to develop command language procedures and write programs which invoke operating system services.

30603 DATABASE SYSTEMS. *Prerequisite: COSC 20803 or CISC 20703.* Introduction to the design, implementation, and use of relational database systems. Topics include entity-relationship modeling, dataflow modeling, relational algebra and tuple calculus, normalization, SQL, external data structures, query optimization, and transaction processing.

30703 ADA SOFTWARE DEVELOPMENT AND PROGRAMMING. *Prerequisite: COSC 20803.* Introduction to the problems associated with the development of large software systems and the features of the Ada programming language that can be used to attack many of these problems. Emphasis will be on those features of Ada that distinguish it from most other programming languages including the use of packages, formal specifications of interfaces, use of private types, operator overloading, tasking, representation clauses, exception handlers, and generics.

30803 SYSTEM SIMULATION. *Prerequisites: COSC 20803 or CISC 20703.* Discrete event simulation programming and analysis techniques for simulation experiments. Includes experimental sampling and model development in a special purpose simulation language.

40003 COMPUTER NETWORKS. *Prerequisite: COSC 30253.* Introduction to basic data communications concepts, including hardware and software aspects of protocols, asynchronous and synchronous communication, network configurations, and error detection. This course includes the study of both local area networks and long haul networks, the 7 layer ISO network model, the architecture of networks, and network communication protocols. Local and wide area networks including the internet and world wide web will be discussed.

40103 GRAPHICS. *Prerequisites: COSC 30253 and a knowledge of linear algebra (MATH 30224).* A basic course in graphics systems. Considers the equations of lines, planes, and surfaces; hidden line algorithms; rotations,

scaling, and cutaway transformations; 3-D images and the use of shading and perspective; animation; and color graphics.

40203 OPERATING SYSTEMS. *Prerequisites: COSC 30253 and MATH 10143.* Introduction to operating systems principles. Includes management of CPU, memory, peripherals, and information; the problems associated with communications and controlling concurrent processes; and the differences in batch, time-sharing, and real-time operating systems.

40403 ANALYSIS OF ALGORITHMS. *Prerequisites: COSC 20803, MATH 10143, and a knowledge of probability and statistics.* Topics concerning what can and cannot be proven about computational complexity, including algorithm design methodologies, techniques for analysis of space and time requirements, and P and NP completeness.

40503 ARTIFICIAL INTELLIGENCE. *Prerequisite: COSC 30603.* Introduction to knowledge representation and methods for intelligent search. Fundamental topics include state space search, logic, and inference engines. AI languages Prolog, Lisp, and Clips will be used to explore additional topics selected from two-person games, expert systems, automated theorem proving, planning, and machine learning.

40603 COMPILER DESIGN AND CONSTRUCTION. *Prerequisites: COSC 30203, COSC 30403, and MATH 10143.* Formal description of algorithmic languages, such as Pascal, and the techniques used in writing compilers for such. Topics include syntax, semantics, storage allocation, code generation, error handling and diagnostics, code optimization, etc. Includes the definition and writing of a compiler for a simple programming language.

40703 PROGRAMMING LANGUAGE DESIGN. *Prerequisite: COSC 40603.* Concentration on the issues of programming language design and implementation. Topics will include language constructs, data representation, sequence control structures, data control structures, storage management.

40803 ADVANCED TOPICS IN COMPUTER HARDWARE. *Prerequisite: Permission of instructor.* Advanced topics of current interest in computer hardware, such as computer design, computer networks, advanced computer graphics. Students will study current literature. May be repeated for credit when topic changes.

40903 ADVANCED TOPICS IN COMPUTER SOFTWARE. *Prerequisite: Permission of instructor.* Advanced topics of current interest in computer software, such as natural language programming, advanced operating systems, advanced compiler design, file structures, advanced database. Students will study current literature. May be repeated for credit when topic changes.

40943 SOFTWARE ENGINEERING. *Prerequisite: Senior standing.* Stages of the software development lifecycle (requirements analysis, specification, design, implementation, testing), evolution, and quality assurance. Classical and alternative process models and techniques are described and discussed. Management issues, professional responsibilities, and ethics of the profession are covered. Includes team projects and individual requirements analysis effort.

40993 SENIOR DESIGN PROJECT. *Prerequisite: COSC 40943.* Senior computer science and computer information science majors are required to demonstrate their mastery of COSC and CISC topics. Students will identify, analyze and implement an appropriate solution to a real world problem. They will communicate the results of their efforts through technical documentation and presentations.

50123 OBJECT-ORIENTED DESIGN AND PROGRAMMING. *Prerequisite: COSC 30403 or permission of instructor.* Introduction to object-oriented techniques including design methodologies and programming language support. Survey of new languages and extensions to existing languages which provide support for encapsulation, inheritance, and polymorphism.

50133 FORMAL LANGUAGES. *Prerequisites: COSC 40603.* Languages and grammars which can be characterized in formal terms, for the purpose of constructing models for artificial (computer) languages. Topics will include finite automata, push down automata, Turing machines, solvable and unsolvable problems, etc.

50970 SPECIAL TOPICS IN COMPUTER SCIENCE. *Prerequisite: Permission of instructor.* (1-6 semester hours).

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Engineering

[Honors Program](#)
[Student Organizations](#)
[Fundamentals Examination](#)
[Courses of Instruction](#)

(ENGR)

Available as a major on the B.S. degree with the choice of either an electrical or mechanical emphasis. All programs of study include a solid liberal arts component and a fundamental core of engineering courses which provide a strong interdisciplinary background in engineering. They conclude with a three-semester design sequence which is common to students in both areas of emphasis. The programs satisfy all criteria established by the Accreditation Board for Engineering and Technology (ABET).

The programs of study are identical for the first three semesters with an emphasis choice required during the second year. A total of 136 semester hours of UCR, engineering and associated courses is required for the B.S. degree in engineering. All programs are based on a strong background in mathematics and the basic sciences. Suggested four-year course sequences are available from the Department of Engineering.

Requirements for the B.S. degree with a major in Engineering: Forty-four semester hours in the Engineering Core including 10011, 10022, 10032, 10042, 20404, 20603, 20613, 30013, 30444, 30623, 30704, 30861, 30903, 40483, 40903, 40913; and twenty semester hours in an Engineering Emphasis. **The Electrical Emphasis** requirements include 20413, 30454, 30503, 30543, and a set of approved elective courses. **The Mechanical Emphasis** requirements include 20623, 30634, 30714, 30871, 40861, 40871, and a set of approved elective courses. All electives must be approved by an engineering faculty advisor to ensure that each student's program of study meets both university and engineering accreditation criteria. **Associated Requirements:** MATH 10524, 20524, 30524, 30613, 30803, PHYS 20473, 20471, 20483, 20481, CHEM 10113 (or CHEM 10114), CHEM 10123 (or CHEM 10124 or PHYS 30493), ECON 10223, 10233, COSC 10052.

Honors Program. Engineering majors who plan to pursue Departmental Honors must be members of the Honors Program and should enroll in ENGR 30003 during their junior year and ENGR 40003 during their senior year.

Pass/No-Credit. All courses used to meet UCR, associated and engineering program requirements must be taken on the letter grade system. An exception may be approved if a specific course is only available on a pass/no-credit basis.

Transfer Students. Transfer applicants should refer to "General Policies" in the Admissions section of this bulletin for general admission requirements and deadlines. A degree plan will be prepared for each transfer student during the student's first semester of enrollment at TCU. The application of previous coursework to an engineering degree at TCU is based upon equivalency of content with TCU courses. Special approval is required to complete any Engineering Emphasis courses outside of TCU. A maximum of 15 semester hours of transfer credit may be applied to the Engineering Core. All engineering courses must be from programs with ABET accreditation, unless otherwise pre-approved. Contact the Department of Engineering for additional information on its transfer policy and procedures.

Student Organizations. Several engineering and computer science student organizations have been established at TCU for the purpose of promoting professional goals and interests, and to provide fellowship and recreation for the members. Student chapters of Institute of Electrical and Electronics Engineers (IEEE), American Society of Mechanical Engineers (ASME), American Institute of Aeronautics and Astronautics (AIAA), and Association of Computing Machinery (ACM) are active on the TCU campus. These groups meet regularly to participate in plant tours or to entertain speakers on topics of current interest to engineering students. All engineering students are encouraged to join one of the student organizations, to participate in campus activities as well as the activities of the affiliated local professional engineering societies. Students may also choose to become student members of the Texas Society of Professional Engineers (TSPE) and to participate in their local chapter activities.

Fundamentals Examination. The Fundamentals of Engineering (FE) examination is administered twice each year by the Advisement and Counseling coordinator in the Department of Engineering. Review sessions are offered by the Engineering Faculty. All engineering students are encouraged and advised to take the fundamentals examination prior to graduation.

UCR Electives. The humanities and social science components of engineering programs should exhibit both breadth and depth in the subject areas. The Department of Engineering provides a list of suggested UCR elective options that address this issue. All UCR electives must be selected with the advice and approval of an engineering academic advisor.

Engineering Electives. The design content of each engineering program must meet minimum standards. Thus, the electrical and mechanical emphasis engineering electives must be selected to assure an adequate design content for the total program. All engineering electives must be selected with the advice and approval of an engineering academic advisor.

The following is a complete list of courses offered by this department. Go to Class Search on Registrar's Page to

see which courses are being taught this semester.

Courses of Instruction

10011 INTRODUCTION TO ENGINEERING. Introduction to the engineering profession. Engineering problem solving and methods of documentation.

10022 ENGINEERING DESIGN AND GRAPHICS. *Corequisite: ENGR 10011 or instructor approval.* Introduction to the engineering design process. Computer-aided engineering design graphics. Student projects.

10032 STATIC MECHANICS. *Prerequisites: ENGR 10022, MATH 10524.* Force systems and resultants, equilibrium, friction, structural analysis, geometric properties and distributed loadings, internal forces.

10042 PRINCIPLES OF DIGITAL LOGIC. Number systems. Arithmetic, Boolean algebra and logic operations. Timing diagrams. Introduction to the design and analysis of combinational and sequential logic circuits.

10052 APPLIED PROGRAMMING. (COSC 10052). *Prerequisite: MATH 10524.* Introduction to computer programming with emphasis on scientific and engineering applications. Examples and assignments will illustrate methods of numerical computation and simulation techniques appropriate for engineering use.

20404 NETWORK ANALYSIS I. *Prerequisite: Math 10524. Corequisite: Math 20524.* Terminal characteristics of passive devices and energy sources. Steady-state response of networks containing these elements. Transient response of first- and second-order networks. Introduction of computer-aided analysis and design tools. Emphasis on the proper use of basic electrical laboratory instrumentation.

20413 NETWORK ANALYSIS II. *Prerequisite: ENGR 20404.* Complex frequency response. Frequency domain analysis using Laplace and Fourier transforms. Two-port networks analysis and applications. Computer-aided analysis and design tools.

20603 Solid Mechanics I. *Prerequisites: ENGR 10032, MATH 20524.* Fundamental topics in static structural analysis, concepts of stress and strain, and stress-strain-temperature relations. Stresses and deformations due to axial, torsional, and bending loads. Transverse shear. Combined loadings.

20613 DYNAMICS AND VIBRATIONS I. *Prerequisites: ENGR 20603, PHYS 20473, MATH 30613.* Kinematics and kinetics of a particle. Work-energy and impulse-momentum methods for particles. Planar kinematics and kinetics of a rigid body. Work-energy and impulse-momentum methods for rigid bodies. Free and forced response of damped single-degree-of-freedom systems.

20623 SOLID MECHANICS II. *Prerequisites: ENGR 20603, PHYS 20473, MATH 30613.* Curved beams. Thick-walled cylinders and spinning disks. Torsion of noncircular shafts. Energy methods. Theories of failure. Introduction to finite element analysis.

30003 HONORS TUTORIAL. *Prerequisite: Junior standing and membership in the Honors Program.* An examination of an important topic in mechanical or electrical engineering determined in consultation with an instructor. This course is offered on a directed study basis and must be arranged prior to the semester enrolled.

30013 Materials Science. (PHYS 30013). *Prerequisite: CHEM 10113.* Introduction to the physical, chemical, mechanical, electrical, and optical properties of metals, semiconductors, ceramics, and polymers. Emphasis on the relationship between these properties and how performance is influenced by microstructure and processing. Atomic bonding. Crystal structure. Phase equilibria. Deformation and fracture. Composite materials. Electronic, magnetic, dielectric and optical properties.

30444 Electronics I. *Prerequisite: ENGR 20404.* Fundamentals of solid-state, discrete-component microelectronic devices, including the pn-junction diode, bipolar junction transistor, and field-effect transistors. The integrated circuit operational amplifier and its use in analog applications is emphasized. Utilization of pn-junction diodes and transistors as electronic switches for digital logic applications is stressed. Computer-aided analysis and design tools. Laboratory applications.

30454 ELECTRONICS II. *Prerequisite: ENGR 30444.* Differential amplifiers. Frequency response of amplifiers with an emphasis on design for wideband operation. Negative feedback with practical circuit applications. Amplifier output stages. Analog integrated circuits including op-amps. Basic analog filter design. Sinusoidal oscillators. Laboratory applications.

30503 SIGNALS AND SYSTEMS. *Prerequisite: ENGR 20413 or instructor approval.* Signal and system representations. Convolution. Fourier series and transforms and applications. Laplace transforms and applications. Z-transforms and applications.

30543 Engineering Electromagnetics. *Prerequisites: ENGR 20404, MATH 30524, MATH 30613.* Vector fields and operators. Electrostatic fields. Coulomb, Gauss, Joule, and Continuity Laws. Solution of boundary-value problems. Magnetostatic fields. Vector magnetic potential. Biot-Savart Law. Time-varying fields. Faraday's Law. Maxwell's equations. Plane waves. Transmission lines. The use of computer-aided calculation and visualization tools.

30573 COMPUTER ORGANIZATION (COSC 30253). *Prerequisite: ENGR 30444. Corequisite: COSC 20101.* Treatment of sequential and combinatorial circuits including flip-flops, multiplexers, decoders, adders, registers, counters. Design of functional components, of a computer including memory, ALU, control unit, busses. The tradeoffs of alternative architectural features such as word size, instruction sets, addressing modes.

30583 MICROPROCESSOR BASED DIGITAL SYSTEMS. (COSC 30353). *Prerequisite: ENGR 30573.* Introduction to the design of microprocessor based digital systems including the study of processor control signals,

address decoding and memory interfacing, interfacing to serial and parallel ports, A/D conversion, and interrupt processing. Features of state-of-the-art microprocessors will be discussed. Both hardware and software assignments will be required.

30593 COMPUTER ARCHITECTURE. (COSC 30453). *Prerequisite:* ENGR 30573. The logical organization and functional behavior of digital computers are studied. Fundamental principles in the design of the CPU, memory, I/O devices, and bus structures are presented. Performance enhancement topics such as caching, memory interleaving, interconnection schemes, pipelining, memory management, reduced instruction sets (RISC), and multiprocessing are discussed.

30613 DYNAMICS AND VIBRATIONS II. *Prerequisites:* ENGR 20613, MATH 30613. Moving reference frames. Kinematics and kinetics of typical machines. Lagrange's equations. Rotating machinery and balancing. Free and forced response of damped multi-degree-of-freedom systems. Modal analysis.

30623 CONTROL SYSTEMS I. *Prerequisites:* ENGR 20613, 20404, MATH 30613. Analysis and design of feedback control systems. Laplace transforms and transfer functions. Transient and steady-state response. Root locus method. Nyquist diagrams. Bode plots. Control system simulation software. Introduction to state-space analysis and design.

30634 Manufacturing I. *Prerequisite:* ENGR 20623. Manufacturing processes and engineering materials emphasizing metals, polymers, ceramics, and composites. Material selection. Product design for optimum manufacturability and quality control. Computer integrated manufacturing and process engineering.

30704 Thermal Sciences I. *Prerequisites:* ENGR 20613, MATH 30613. An introduction to thermodynamics, fluid mechanics and heat transfer. System and control volume concepts in analysis. First and second laws in thermodynamics. Thermodynamics cycles. Fluid statics and steady flow of fluids. Introduction to topics in conduction, convection, and radiation heat transfer.

30714 THERMAL SCIENCES II. *Prerequisite:* ENGR 30704. Continuation of ENGR 30704. Further topics in thermodynamics and fluid mechanics. Applications of the first and second laws to power and refrigeration cycle analysis, psychrometrics, and reacting mixtures. Conservation equations. Inviscid and viscous incompressible flow. Introduction to compressible flow.

30861 MATERIALS AND MECHANICS LAB. *Prerequisite:* ENGR 20603. *Corequisite:* ENGR 30013. Experimental, computational and analytical studies of phenomena in solid mechanics and materials. Data acquisition, transmission, and analysis.

30871 THERMAL SYSTEMS I LAB. *Corequisite:* ENGR 30704. Experimental, computational and analytical studies of phenomena in fluid flow, heat transfer, thermodynamics, refrigeration, and mechanical power systems. Data acquisition, transmission, and analysis.

30903 ISSUES IN ENGINEERING DESIGN. *Prerequisite:* Junior Standing. Examination of various issues inherent in engineering design. A review of the engineering method. Ethical issues of engineering design such as: product liability, risk assessment, intellectual property, competitive bidding, and the environmental and social impacts of design decisions. Project management, topics in engineering economy, and probabilistic concepts in design.

40003 SENIOR HONORS RESEARCH PAPER. *Prerequisite:* ENGR 30003. A supervised research experience culminating in the writing of a research paper based on the subject matter studied in ENGR 3003 Honors Tutorial. The course is offered on a directed study basis and must be arranged prior to the semester enrolled.

40454 Semiconductor Device Electronics. *Prerequisite:* ENGR 30454. Semiconductor materials and solid-state physics principles. Charge carrier transport phenomena. PN-junction analysis. Bipolar junction transistor physics. Metal-oxide-semiconductor (MOS) physics. MOS transistor principles. Computer-aided analysis and design tools will be used. Individual research laboratory project.

40483 ELECTROMECHANICS. *Prerequisites:* ENGR 20404, PHYS 20483, 20481. Electromechanical energy conversion principles. Magnetic circuits. Balanced three-phase system analysis. Development and applications of the circuit models for transformers, induction machines, synchronous machines, and DC machines. Laboratory exercises emphasize measurement of machine model parameters and comparison of predicted and observed steady-state performance.

40514 COMMUNICATION SYSTEMS. *Prerequisite:* ENGR 30503. Introduction to analog and digital communication systems and concepts. Sampling theorem. Amplitude modulation. Frequency modulation. Pulse-code modulation. Time-division and frequency-division multiplexing. Analog and digital noise analysis.

40544 OPTICAL FIBER COMMUNICATIONS. *Prerequisite:* ENGR 30543 or PHYS 40653. Waveguiding and signal transmission properties of optical fibers. Optical sources. Power launching and coupling. Photodetectors. Optical receivers. Optical fiber transmission systems. Laboratory exercises emphasize the measurement of waveguiding characteristics.

40574 DIGITAL SIGNAL PROCESSING. *Prerequisite:* ENGR 30503. Sampling and quantization effects. Digital filter design. Structures for realizing discrete time systems. Discrete Fourier transform and fast Fourier transform. Laboratory exercises emphasize digital signal processing techniques to applications in audio signal processing and telecommunications.

40613 MACHINE COMPONENT DESIGN. *Prerequisites:* ENGR 20613, 20623. The design and selection of mechanical components. Lubrication. Antifriction and journal bearings. The design of screws, fasteners, and joints. Mechanical springs. Gears and gearing systems. Clutches, brakes and couplings. Flexible mechanical elements. Flywheels and power units. Miscellaneous topics.

40623 Control Systems II. *Prerequisite: ENGR 30623.* Design of control systems. Stability. System sensitivity. Nyquist, root locus and Bode design. Nichols chart analysis and design. Controllability and observability. Introduction to nonlinear control systems. Phase plane methods.

40633 Manufacturing II. *Prerequisite: ENGR 30634.* A continuation of ENGR 30634.

40723 HEAT TRANSFER. *Prerequisite: ENGR 30704.* Thermal conductivity. Steady and unsteady conduction. Free and forced convection. Boundary layer concepts. Heat exchangers. Thermal radiation. Numerical procedures.

40733 FLUID MECHANICS. *Prerequisite: ENGR 30704.* Fluid statics. Conservation equations. Incompressible inviscid and viscous flow. Boundary layers. Dimensional analysis and similitude. Compressible flow.

40743 THERMAL SYSTEMS DESIGN. *Prerequisite: ENGR 30704.* Design and analysis of thermal systems. Selection and evaluation of fluid flow equipment. Heat exchangers. Vapor power and refrigeration cycles. Fluid flow circuits. Preliminary cost estimations and economic evaluation. Availability analysis and optimization techniques.

40753 ADVANCED ENGINEERING DYNAMICS. *Prerequisites: ENGR 20613, MATH 30613.* Kinematics and kinetics of three dimensional motion. Gyroscopic systems. Energy and momentum methods. Generalized coordinates and Lagrange's equations. Special topics.

40763 ADVANCED ENGINEERING VIBRATIONS. *Prerequisites: ENGR 20613, MATH 30613.* Free and forced vibration of single-degree-of-freedom and multiple-degree-of-freedom systems. Vibration of continuous systems, such as cables, beams and plates. Engineering applications of vibration theory. Special topics.

40861 DYNAMICS AND VIBRATIONS LAB. *Prerequisite: ENGR 30623.* Experimental, computational and analytical studies of dynamics and vibrations phenomena in machines and structures. Data acquisition, transmission, and analysis.

40871 Thermal Systems II Lab. *Prerequisites: ENGR 30714, 30871.* A continuation of ENGR 30871. Experimental, computational and analytical studies of phenomena in fluid flow, heat transfer, thermodynamics, refrigeration, and mechanical power systems. Data acquisition, transmission, and analysis.

40903 Systems Design I. *Prerequisite: ENGR 30903.* Two-semester interdisciplinary team projects. Application of analysis and design principles and techniques to the synthesis, modeling, optimization, fabrication, and testing of electrical, mechanical and electromechanical systems. Individual and team oral and written reports.

40913 Systems Design II. *Prerequisite: ENGR 40903.* Continuation of ENGR 40903

4920 Design Projects. *Prerequisite: Instructor approval.* Individual design and development projects in fundamental or applied aspects of electrical or mechanical engineering (1-4 hours).

40970 Special Topics IN ENGINEERING. *Prerequisite: Instructor approval.* (1-6 hours).

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Environmental Earth Resources

[Courses of Instruction](#)

(ENER)

Administered by the Department of Geology and available as a major on the B.S. degree. Intended for students seeking a degree that combines environmental geology, computers, and satellite imagery for mapping earth resources.

Requirements for a B.S. degree with a major in Environmental Earth Resources: 34 hours in Geology and 17 hours from related science/math departments.

A. Required Geology courses-20 hours

GEOL 10113 Understanding the Earth
GEOL 10143 Earth Resources & the Environment
GEOL 30213 Mineralogy
GEOL 30393 Environmental Earth Resources
GEOL 30423 Structural Geology
GEOL 50712 Environmental Geology
GEOL 50721 Geographic Information Systems
GEOL 50731 Remote Sensing Technology
GEOL 50901 Computer Applications in Geology

B. 14 more required hours from the following options:

GEOL 30113 Weather and Climate
GEOL 30123 Beaches, Coasts and Oceans
GEOL 30133 Earth History I
GEOL 30143 Earth History II
GEOL 30203 Catastrophes, Controversies, Genesis and Geology
GEOL 30223 Petrology
GEOL 30233 The Rock Cycle
GEOL 30243 Sedimentology
GEOL 30323 Introduction to Marine Science
GEOL 40413 Map Interpretation
GEOL 40493 Geomorphology
GEOL 40893 Senior Thesis
GEOL 40970 Special Problems in Geology
GEOL 50113 Soils
GEOL 50361 Basic Well Log Interpretation
GEOL 50423 Petroleum Geology
GEOL 50493 Physical Hydrology
GEOL 50602 Preparation of Environmental Impact Statements
GEOL 50741 Image Processing
GEOL 50751 Image Interpretation
GEOL 50762 Advanced GIS
GEOL 50783 Environmental Chemistry
GEOL 50883 Introduction to Environmental Engineering Technology
GEOL 50912 Statistical Applications for Microcomputers
GEOL 50922 Mapping Applications for Microcomputers

C. Additional associated requirements -17 hours:

BIOL 10003 Contemporary Issues in Biology
CHEM 10113 General Chemistry
COSC 10403 Introduction to Programming
MATH 10524 Calculus I
PHYS 10153 Physics I
PHYS 10151 Physics I Lab

D. Pass/No Credit Option: Courses in the major (or minor) must be taken for letter grade.

E. Approved electives: In science, math or computer science as approved by the advisor.

The total hours required for the B.S. degree with a major in Environmental Earth Resources is 132 semester hours.

The following is a complete list of courses offered by this department. Go to Class Search on Registrar's Page to see which courses are being taught this semester..

Courses of Instruction

Grades of C or better in GEOL 30213 (Mineralogy), GEOL 30223 (Petrology) and 30423 (Structural Geology) are a prerequisite for admission to courses at the 40000 level or above.

10113 UNDERSTANDING THE EARTH. Two hours of lecture and two hours of laboratory per week. A study of the physical environment of the planet Earth, its makeup, the processes that mould its surface features and an introduction to the resources that it provides.

10123 EARTH HISTORY. *Prerequisite* GEOL 10113. Two hours of lecture and two hours of laboratory per week. The earth's evolution, covering both its history of shifting continents and spreading oceans and the origin and evolution of life. Field Trip required.

10143 EARTH RESOURCES AND THE ENVIRONMENT. Two hours lecture and two hours of laboratory per week. The earth provides an objective treatment of the state of our environment. Specifically the course seeks to develop a fundamental scientific knowledge and understanding of the concepts and principles that underlie current environmental problems, and to engage in critical and reflective thinking about our resources, the environment and our place within it. Field Trip required.

20213 OUR GEOLOGICAL LEGACY. *Prerequisite:* GEOL 10113. Three hours of lecture per week. For the non-science major. Places society's relationship to geological phenomena within a scientific framework. Evaluates the apparent immutability of the earth. Field Trip required.

30003 HONORS SEMINAR. Reading assignments and discussions on topics of great importance in geology.

30103 SCIENCE, SCIENTISTS AND SOCIETY. Three hours of lecture per week. A cross-disciplinary course in the natural sciences. The workings of science and scientists studied by examining recurring themes and selected episodes in the history of science. The scientific enterprise considered within the changing intellectual, cultural and social milieu in which it was practiced from Epicurus and Aristotle through Einstein and Heisenberg.

30113 WEATHER AND CLIMATE. Three hours of lecture per week. Introduction to the basic concepts and principles of atmospheric science in a descriptive format; emphasizes the physics responsible for changes in weather and climate complemented with popular treatment.

30123 BEACHES, COASTS AND OCEANS. Three hours of lecture per week. Fundamental principles that govern the evolution and nature of coastal environments. Examines the impact of natural oceanographic processes and the role of humans on the coastal environment. Survey of U.S. and world's beaches.

30133 HISTORICAL GEOLOGY I. *Prerequisite* GEOL 10113 or equivalent. This first semester of a two semester lab/lecture introduces students to the general principles of earth history. Lab exercises and field trips introduce students to the practical aspects of earth history. Microscope work and field trips are mandatory.

30143 HISTORICAL GEOLOGY II. *Prerequisite* GEOL 30133 or equivalent. This second semester of a two semester lab/lecture course continues with an in depth look at the details of the geological history of North America and the history of life on earth. Lectures focus on historical detail, while lab exercises and field trips focus on major groups of fossils in the lab and field. Microscope work and field trips are mandatory.

30203 CATASTROPHES, CONTROVERSIES, GENESIS & GEOLOGY. Three hours of lecture per week. The workings of science and scientists considered by examining the emergence of geology as a science in the late 18th and early 19th centuries and its development through the Victorian Age, including the rise and demise of scriptural geology and the impact of geologic thought on social mores and religious beliefs.

30213 MINERALOGY. *Prerequisite* GEOL 10113 or permission of the instructor. Two hours of lecture and one three hour laboratory period per week. A composite course consisting of an introduction to crystallography and a study of the common minerals.

30223 PETROLOGY. *Prerequisite:* GEOL 30213. Two hours of lecture and one three hour laboratory period per week. A basic course in the origin and identification of igneous, sedimentary and metamorphic rocks. Field trip required.

30233 THE ROCK CYCLE. *Prerequisite* GEOL 10113 or permission of the instructor. Field seminar on the megascopic aspects of igneous, sedimentary and metamorphic rocks. Description and interpretation of features seen at scales between that of the individual outcrop and that of an entire basin.

30243 SEDIMENTOLOGY. *Prerequisite* GEOL 30223 or permission of the instructor. Two hours of lecture and one three hour laboratory period per week. Principles and techniques of facies analysis, including the description and origin of sedimentary textures and sedimentary structures, and the collection and analysis of paleocurrent data. Field trips required

30323 INTRODUCTION TO MARINE SCIENCE. (BIOL 30323) *Prerequisite* GEOL 10113, or permission of the instructor. Three hours of lecture per week. A study of the oceans including physiography, chemical, physical, biological, and geological processes and related products.

30393 ENVIRONMENTAL EARTH RESOURCES. *Prerequisite:* one year of chemistry, GEOL 10143 or permission of the instructor. Two hours of lecture and one three hour laboratory period per week. Chemical weathering, chemical and physical properties of soils, clay mineralogy, sedimentary rocks, ion exchange phenomena.

30423 STRUCTURAL GEOLOGY. *Prerequisite:* permission of the instructor. Two hours of lecture and one three hour laboratory period per week. An introductory study of the deformation of the Earth's crust. Field trips required.

30573 STRATIGRAPHY. *Prerequisite Geol 10123 and/or permission of the instructor.* Three hours of lecture. An introduction to the practical and theoretical aspects of stratigraphy and depositional systems. This course uses practical examples and field- and literature-based projects to familiarize students with the basic theoretical stratigraphic framework in which geology exists. An off-road field trip will be required.

40013 HONORS RESEARCH. *Prerequisite: permission of the instructor.* The student is required to do independent research on a geologic problem, submit a paper and give an oral presentation of the findings. A faculty supervisor will be appointed for each research problem.

40313 INVERTEBRATE PALEONTOLOGY. *Prerequisite: permission of the instructor.* Two hours of lecture and one three hour laboratory period per week. Major groups of invertebrate fossils, their morphology, classification, paleoecology, geologic distribution and phylogeny. Field trips required.

40413 MAP INTERPRETATION. *Prerequisite: permission of the instructor.* Two hours of lecture and one three hour laboratory period per week. The construction and interpretation of geological maps

40493 GEOMORPHOLOGY. *Prerequisite: permission of the instructor.* Two hours of lecture and one two hour laboratory per week. Endogenic and exogenic processes and land forms; geologic control; short-term, long term and human-imposed landscape development; morphometric analysis and study of recent movements; environmental geomorphology.

40516 SUMMER FIELD COURSE IN GEOLOGY. *Prerequisite: permission of the instructor.* Field investigations and mapping. Those planning to enroll should contact the Department of Geology by March 1 of the year in which enrollment is contemplated. Field work in rough and robust terrain required; a high degree of physical fitness recommended.

40893 SENIOR THESIS. *Prerequisites: junior or senior status, a grade point of at least 3.00, and/or permission of instructor.* Three hours of independent study with a focus on original research. The student is required to produce a bound thesis in a form suitable for publication in a scientific journal. Students are strongly recommended to enroll for this course in the penultimate semester of their degree plan with the expectation that the work may take more than a semester to complete.

40970 SPECIAL PROBLEMS IN GEOLOGY. *Prerequisite: permission of instructor.* Field and laboratory problems for advanced undergraduate students. Fifty clock hours of laboratory and field work for each semester credit (1-6 semester hours.)

50113 SOILS. Two hours lecture and two hours laboratory per week. This course covers the formation, distribution, and classification of soils: major soil properties; field evaluation of soils; the use of soil survey information; and soil hydrology. The emphasis is on the study of soils as products of biophysical processes, and on soil properties of interest to geoscientists and natural resource managers.

50233 OPTICAL MINERALOGY AND PETROGRAPHY. *Prerequisite: permission of the instructor.* Two hours of lecture and one three hour laboratory period per week. Analysis of the behavior of light in crystalline substances, complete treatment of crystal optics and the identification of nonopaque, rock-forming minerals using immersion media and thin section techniques. Intensive use of the microscope required.

50251 SCANNING ELECTRON MICROSCOPY. *Prerequisite: Permission of the instructor.* Use of the S.E.M. in geological applications.

50331 BASIC SEISMICS. *Prerequisites: GEOL 40223.* Three hours of lecture per week for five weeks. An introduction to techniques of gathering, processing and interpreting seismic data.

50341 INTERPRETING SEISMIC DATA. *Prerequisites: GEOL 50331 or equivalent.* Three hours of laboratory per week for five weeks. A practicum in interpreting seismic data.

50351 SEISMIC STRATIGRAPHY. *Prerequisites: GEOL 50331 or equivalent.* Three hours of lecture per week for five weeks. An introduction to the principles of seismic stratigraphy and their application in oil and gas exploration.

50361 BASIC WELL LOG INTERPRETATION. *Prerequisite: GEOL 40223.* Three hours of lecture per week for five weeks. An introduction to the use of borehole geophysical logs in formation evaluation, correlation and subsurface facies analysis.

50413 GLOBAL TECTONICS AND BASIN ANALYSIS. *Prerequisite: permission of the instructor.* Three hours of lecture per week. Explores the relationship between plate motion and the evolution of sedimentary basins.

50423 PETROLEUM GEOLOGY. *Prerequisite: permission of the instructor.* Origin, migration and entrapment of hydrocarbons, exploration and production techniques used in the petroleum industry.

50433 COASTAL PROCESSES. Two hours of lecture and one two-hour laboratory per week. Advanced study of waves, winds, water levels, tides and currents and their interaction with shores, beaches, inlets, inner continental shelves and coastal structures. Other topics include tectonic, physical, climatic controls on coastline development, storms, and sediment transport in the coastal zone. Involves computer modeling. Required field trip to the Texas barrier islands.

50493 PHYSICAL HYDROLOGY. *Prerequisite Math 10524 or permission of instructor.* Two hours of lecture and two hours of laboratory per week. A study of the occurrence, movement, and exploitation of water in the hydrologic cycle including surface-atmosphere, groundwater, and surface water processes.

50543 SEDIMENTARY ENVIRONMENT AND FACIES. *Prerequisite: permission of the instructor.* Three hours of

lecture per week. Facies analysis and facies models applied to the problem of interpreting stratigraphic sequences and reconstructing paleogeography.

50602 PREPARATION OF ENVIRONMENTAL IMPACT STATEMENTS. *Prerequisite: permission of the instructor.* Two laboratory periods per week. The methodology of environmental impact statement preparation from initial collection of data to final report drafting is covered. The course offers problem oriented exercises where students are trained to take the initiative in EIS preparation. (Also offered as BIOL 50602).

50603 INTRODUCTION TO GEOCHEMISTRY. *Prerequisite: CHEM 10114-10124 or permission of the instructor.* Three hours of lecture per week. Application of basic chemical principles to understanding the origin, distribution and migration of chemical elements in the earth's lithosphere, hydrosphere, atmosphere and biosphere.

50613 IGNEOUS AND METAMORPHIC PETROLOGY. *Prerequisite: GEOL 50233 or permission of the instructor.* Two hours of lecture and one three hour laboratory period per week. Petrogenesis of igneous and metamorphic rocks based on field, petrographic, chemical and isotopic data. Conferences on the evolution and dynamics of the crust and mantle. Involves use of microscope.

50623 VOLCANOLOGY. *Prerequisite: GEOL 50233 or permission of instructor.* Two hours of lecture and one three hour laboratory period per week. Types and processes of volcanic eruptions; characteristics of modern volcanic products; recognition and significance of ancient volcanic deposits in the stratigraphic record. Involves use of microscope. Field trip required.

50712 ENVIRONMENTAL GEOLOGY. *Prerequisite: permission of the instructor.* Three hours of lecture per week for ten weeks. Geologic processes, earth resources and engineering properties of crystal materials in the activities of society.

50721 GEOGRAPHIC INFORMATION SYSTEMS. *Prerequisite: permission of the instructor.* Three hours of lecture per week for five weeks. An introduction to computer systems for creating and managing large data bases and to techniques for displaying and interpreting layered environmental geologic data.

50731 REMOTE SENSING TECHNOLOGY. *Prerequisite: Permission of the instructor.* Three hours of lecture per week for five weeks. An introduction to the technology used in remote sensing, including MSS, TM and SPOT, thermal scanners and radar imaging.

50741 IMAGE PROCESSING. *Prerequisite: permission of the instructor.* Three hours of lecture per week for five weeks. An introduction to processing techniques used to enhance the display of remote sensing images with emphasis on those techniques useful in resource mapping.

50751 IMAGE INTERPRETATION. *Prerequisite: permission of the instructor.* Three hours of lecture per week for five weeks. Geologic and resource mapping and environmental monitoring using satellite images

50762 ADVANCED GIS. *Prerequisite: GEOL 50721.* Hands-on computer use to demonstrate advanced computer techniques for mapping. Introduction to Mapfactory, ERDAS and ArcView software programs to conduct raster and vector database layering projects for geological and environmental map production.

50773 INTRODUCTION TO ENVIRONMENTAL LAW. *Prerequisite: Enrollment in Environmental Sciences, Master of Science Program, or senior standing with appropriate major (biology, geology, chemistry or other science; engineering; pre-law; business management.)* Three hours lecture per week. Introduction to and analysis of selected federal statutes regulating environmental degradation and environmental clean-up, including the National Environmental Policy Act and regulation of air quality, water quality, wastes, hazardous and toxic substances and enforcement.

50783 ENVIRONMENTAL CHEMISTRY. *Prerequisites: CHEM 10113-10123 and CHEM 10122, or CHEM 10114-10124 or permission of the instructor.* Three hours of lecture per week. Chemistry of water, soil, energy, and air as related to environmental problems. Subjects include: nutrients and eutrophication, fluorocarbons, sulfur and nitrogen oxides, Eh-pH relationship, natural carbonate reactions, and cation exchange phenomena. Cross listed with CHEM 50783.

50883 INTRODUCTION TO ENVIRONMENTAL ENGINEERING TECHNOLOGY. *Prerequisite: permission of the instructor.* Introduction to fundamentals of pollution control technology; impact of federal and state legislation on the construction, modification and control of industrial plants. Other topics include hazardous pollutants, modification to ambient quality, and basic pollution modeling. (Also cited as BIOL 50883.)

50901 COMPUTER APPLICATIONS IN GEOLOGY. *Prerequisites: COSC 10403 or equivalent and permission of the instructor.* Three hours of lecture per week for five weeks. The use of microcomputers in Geology.

50912 STATISTICAL APPLICATIONS FOR MICROCOMPUTERS. *Prerequisite: GEOL 50901.* Three hours of lecture per week for ten weeks. Statistical treatment of directional data and the use of multivariate and special regression techniques analysis of variance, discriminate function analysis and factor analysis in solving geologic problems.

50922 MAPPING APPLICATIONS FOR MICROCOMPUTERS. *Prerequisite: GEOL 50901.* Three hours of lecture per week for ten weeks. Selecting and using mapping and drafting software.



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Environmental Sciences

[Requirements for a minor in Environmental Sciences](#)

[Requirements for the B.S. degree with a major in Environmental Sciences](#)

(ENSC)

Available as a major for the B.S. degree.

This interdisciplinary program is administered by the Director of the Environmental Sciences Program, Dr. Leo W. Newland, Professor of Biology and Geology, and also by the Environmental Sciences Committee. Students may obtain information or advisement about the program from Dr. Newland or from the chairs of the Departments of Biology or Geology.

Faculty associated with the Environmental Sciences Program are:

Joseph C. Britton, Professor of Biology
Arthur Busbey, Associate Professor of Geology
R. Nowell Donovan, Charles B. Moncrief Professor of Geology
Ray W. Drenner, Professor of Biology
Arthur J. Ehlmann, Emeritus Professor of Geology
Gary W. Ferguson, Professor of Biology
Richard Hanson, Herndon Professor of Geology
Philip S. Hartman, Professor of Biology
John Horner, Associate Professor of Biology
Otto Hutzinger, Chair, Ecological Chemistry, University of Bayreuth, Germany
Glenn C. Kroh, Associate Professor of Biology
Ken M. Morgan, Chair, Department of Geology and Director, Center for Remote Sensing and Energy Research
Leo Newland, Professor of Biology & Geology
Michael Slattery, Associate Professor of Geology

Pass/No Credit Option. Courses in the major and minor, if any, must be taken for letter grades.

Requirements for a minor in Environmental Sciences The minor in Environmental Sciences requires participation in Columbia University's "Earth Semester" Program at Biosphere2 just outside Tucson, AZ. TCU is an "Institutional Partner" with Columbia University in Biosphere2 and Earth Semester participants receive 13 hours of advanced (30000 level) biology and geology plus 3 hours of UCR social science credit totaling 16 hours. Additionally, and to complete the minor, you must take at least 6 hours of biology and geology from the following courses:

GEOL 10113 or 10143, and BIOL 30613

Requirements for the B.S. degree with a major in Environmental Sciences

A. Required Science Courses

BIOLOGY COURSES (20 hours)

BIOL 10504 Principles of Life Sciences
BIOL 10514 Principles of Life Sciences
BIOL 30403 Ecology
BIOL 30303 Microbiology or BIOL 30603 Cellular, Molecular & Developmental Biology

Plus 6 hours to be taken from the following:

BIOL 30011 Introduction to Biological Research
BIOL 30104 Comparative Invertebrate Zoology
BIOL 30124 Biology of the Vertebrates
BIOL 30233 Economic Botany
BIOL 30323 Introduction to Marine Science (also GEOL)
BIOL 30504 Plant Biology
BIOL 30613 Natural History of North America
BIOL 30703 Plant Systematics
BIOL 30803 History of Biology
BIOL 40123 Genetics
BIOL 40404 General Animal Physiology
BIOL 40900 Natural History of the Southwest
BIOL 50103 Terrestrial Ecosystems
BIOL 50303 Systematics and Evolution
BIOL 50313 Biogeography
BIOL 50602 Preparation of Environmental Impact Statements (also GEOL)
BIOL 50703 Ecology of Lakes and Streams
BIOL 50713 Marine Ecology

BIOL 50773 Introduction to Environmental Law (also GEOL)
BIOL 50803 Ecology of Fishes
BIOL 50883 Introduction to Environmental Engineering Technology (also GEOL)
BIOL 50903 Tropical Biology
BIOL 50923 Herpetology

GEOLOGY COURSES (18 hours)

GEOL 10113 Understanding the Earth
GEOL 10143 Earth Resources & the Environment
GEOL 30393 Environmental Earth Resources

Plus 9 hours to be taken from the following:

GEOL 30113 Weather and Climate
GEOL 30123 Beaches, Coasts, and Oceans
GEOL 30323 Introduction to Marine Science (also BIOL)
GEOL 30233 The Rock Cycle
GEOL 40413 Map Interpretation
GEOL 40493 Geomorphology
GEOL 50113 Soils
GEOL 50493 Physical Hydrology
GEOL 50602 Preparation of Environmental Impact Statements (also BIOL)
GEOL 50603 Introduction to Geochemistry
GEOL 50712 Environmental Geology
GEOL 50721 Geographic Information Systems
GEOL 50731 Remote Sensing Technology
GEOL 50741 Image Processing
GEOL 50751 Image Interpretation
GEOL 50762 Advanced GIS
GEOL 50773 Introduction to Environmental Law (also BIOL)
GEOL 50783 Environmental Chemistry
GEOL 50883 Introduction to Environmental Engineering Technology (also BIOL)
GEOL 50901 Computer Applications in Geology
GEOL 50912 Statistical Applications for Microcomputers
GEOL 50922 Mapping Applications for Micro-computers

CHEMISTRY COURSES (15 hours)

CHEM 10113-10123 General Chemistry
CHEM 10122 General Chemistry Lab
CHEM 20104 Quantitative Analysis

Plus 3 hours to be taken from the following:

CHEM 30123-30133 Organic Chemistry
CHEM 40164 Introduction to Physical Chemistry
CHEM 50783 Environmental Chemistry

PHYSICS COURSES (8 hours)

PHYS 10153 General Physics I
PHYS 10151 General Physics Laboratory
PHYS 10163 General Physics II
PHYS 10161 General Physics Laboratory

MATHEMATICS COURSES (7 or 8 hours)

MATH 10524 Calculus I, and either
MATH 20524 Calculus II or COSC 10403 Introduction to Programming

B. Required Non-Science Course (3 hours)

DESC 20153 Statistical Analysis or MATH 10043 Elementary Statistics

C. Approved Electives. To be chosen from the sciences, mathematics, or approved by the adviser.

The total required for the B.S. degree with a major in Environmental Sciences is 132 semester hours.

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General Studies Program

A program leading to a Bachelor of General Studies (B.G.S.) degree is available for non-traditional students. Applications for the B.G.S. program may be obtained from the Science and Engineering dean's office. In order to be eligible, an individual must be at least 23 years of age and must not have been enrolled as a full-time student in a college or university within two years of the date of proposed entry into this program. Information concerning eligibility requirements for individuals in active military service may be obtained from the Director of the General Studies Program.

Requirements include the following:

1. A total of 124 semester hours with at least 45 semester hours taken at TCU.
2. Thirty-six semester hours must be at the advanced level (30000 level or above) with 24 or more of these advanced hours being taken at TCU.
3. The last 30 semester hours for the degree must be taken at TCU.
4. After the student has completed 60 semester hours, a degree plan will be developed to meet the individual educational needs and goals of the student. The degree plan must be approved by the Dean of Science and Engineering. For information contact the Dean's office.
5. Meet University Curriculum Requirements as described in "The Bachelor's Degree" section of this Bulletin.

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Geology

Courses of Instruction (GEOL)

Available as a major or minor on the B.A. and B.S. degrees.

Requirements for the B.S. degree with a major in Geology. Thirty-six semester hours in Geology including 10113, 10143, 30133, 30143, 30213, 30223, 30243, 30423 and 40516. **Associated Requirements:** MATH 10524, and either 20524, or 10123; PHYS 10153, 10151, 10163, and 10161 (or PHYS 20473, 20471, 20483, and 20481); CHEM 10113, 10123, 10122 (or Chemistry 10114, 10124); COSC 10403 or MATH 10043 or DESC 20153. **Approved Electives:** Twelve semester hours of science electives, selected with regard to the interest of the student.

Students planning to pursue technical jobs or qualify for graduate work in geology are strongly advised to satisfy the requirements for the B.S. degree. Some Geology courses required for the B.S. degree require off-road field trips (particularly 40516, which requires a high degree of physical fitness and mobility). Some required courses in Geology involve intensive microscope work. A total of 132 semester hours is required for graduation with the B.S. degree.

Requirements for the B.A. degree with a major in Geology. Twenty four semester hours in Geology consisting of 10113, 10143, 30133, 30143, 30213, 30223, 30243 and 30423. **Associated requirements:** CHEM 10113. Some Geology courses required for the B.A. degree require off-road field trips and involve intensive microscope work. **Minor:** Any minor approved for the B.A. degree is acceptable.

The B.A. degree with a major in Geology is devised primarily for the student seeking a curriculum combining geology with another field of study. A total of 124 semester hours is required for graduation with the B.A. degree.

Pass/No Credit Option. Courses to be applied toward the major may not be taken on the Pass/No Credit basis.

Requirements for a minor in Geology: A total of 18 semester hours in geology of which 9 semester hours must be at the 20000 level or above.

Honors Program. Geology majors who plan to pursue Departmental Honors must be members of the Honors Program and should enroll in GEOL 30003 during their junior year and GEOL 40013 during the fall semester of their senior year.

Sigma Xi. The department is a sponsor of Sigma XI, the Honor Society for Research in the Natural Sciences.

Sigma Gamma Epsilon. The department is a sponsor of Sigma Gamma Epsilon, the Honor Society for Research in the Earth Sciences.

The following is a complete list of courses offered by this department. Go to Class Search on Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

Grades of C or better in GEOL 30213 (Mineralogy), GEOL 30223 (Petrology) and 30423 (Structural Geology) are a prerequisite for admission to courses at the 40000 level or above.

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10123 EARTH HISTORY. *Prerequisite* GEOL 10113. Two hours of lecture and two hours of laboratory per week. The earth's evolution, covering both its history of shifting continents and spreading oceans and the origin and evolution of life. Field Trip required.

10143 EARTH RESOURCES AND THE ENVIRONMENT. Two hours lecture and two hours of laboratory per week. The earth provides an objective treatment of the state of our environment. Specifically the course seeks to develop a fundamental scientific knowledge and understanding of the concepts and principles that underlie current environmental problems, and to engage in critical and reflective thinking about our resources, the environment and our place within it. Field Trip required.

20213 OUR GEOLOGICAL LEGACY. *Prerequisite:* GEOL 10113. Three hours of lecture per week. For the non-science major. Places society's relationship to geological phenomena within a scientific framework. Evaluates the apparent immutability of the earth. Field Trip required.

30003 HONORS SEMINAR. Reading assignments and discussions on topics of great importance in geology.

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the natural sciences. The workings of science and scientists studied by examining recurring themes and selected episodes in the history of science. The scientific enterprise considered within the changing intellectual, cultural and social milieu in which it was practiced from Epicurus and Aristotle through Einstein and Heisenberg.

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30213 MINERALOGY. *Prerequisite GEOL 10113 or permission of the instructor.* Two hours of lecture and one three hour laboratory period per week. A composite course consisting of an introduction to crystallography and a study of the common minerals.

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30233 THE ROCK CYCLE. *Prerequisite GEOL 10113 or permission of the instructor.* Field seminar on the megascopic aspects of igneous, sedimentary and metamorphic rocks. Description and interpretation of features seen at scales between that of the individual outcrop and that of an entire basin.

30243 SEDIMENTOLOGY. *Prerequisite GEOL 30223 or permission of the instructor.* Two hours of lecture and one three hour laboratory period per week. Principles and techniques of facies analysis, including the description and origin of sedimentary textures and sedimentary structures, and the collection and analysis of paleocurrent data. Field trips required

30323 INTRODUCTION TO MARINE SCIENCE. (BIOL 30323) *Prerequisite GEOL 10113, or permission of the instructor.* Three hours of lecture per week. A study of the oceans including physiography, chemical, physical, biological, and geological processes and related products.

30393 ENVIRONMENTAL EARTH RESOURCES. *Prerequisite: one year of chemistry, GEOL 10143 or permission of the instructor.* Two hours of lecture and one three hour laboratory period per week. Chemical weathering, chemical and physical properties of soils, clay mineralogy, sedimentary rocks, ion exchange phenomena.

30423 STRUCTURAL GEOLOGY. *Prerequisite: permission of the instructor.* Two hours of lecture and one three hour laboratory period per week. An introductory study of the deformation of the Earth's crust. Field trips required.

30573 STRATIGRAPHY. *Prerequisite Geol 10123 and/or permission of the instructor.* Three hours of lecture. An introduction to the practical and theoretical aspects of stratigraphy and depositional systems. This course uses practical examples and field- and literature-based projects to familiarize students with the basic theoretical stratigraphic framework in which geology exists. An off-road field trip will be required.

40013 HONORS RESEARCH. *Prerequisite: permission of the instructor.* The student is required to do independent research on a geologic problem, submit a paper and give an oral presentation of the findings. A faculty supervisor will be appointed for each research problem.

40313 INVERTEBRATE PALEONTOLOGY. *Prerequisite: permission of the instructor.* Two hours of lecture and one three hour laboratory period per week. Major groups of invertebrate fossils, their morphology, classification, paleoecology, geologic distribution and phylogeny. Field trips required.

40413 MAP INTERPRETATION. *Prerequisite: permission of the instructor.* Two hours of lecture and one three hour laboratory period per week. The construction and interpretation of geological maps

40493 GEOMORPHOLOGY. *Prerequisite: permission of the instructor.* Two hours of lecture and one two hour laboratory per week. Endogenic and exogenic processes and land forms; geologic control; short-term, long term and human-imposed landscape development; morphometric analysis and study of recent movements; environmental geomorphology.

40516 SUMMER FIELD COURSE IN GEOLOGY. *Prerequisite: permission of the instructor.* Field investigations and mapping. Those planning to enroll should contact the Department of Geology by March 1 of the year in which enrollment is contemplated. Field work in rough and robust terrain required; a high degree of physical fitness recommended.

40893 SENIOR THESIS. *Prerequisites: junior or senior status, a grade point of at least 3.00, and/or permission of instructor.* Three hours of independent study with a focus on original research. The student is required to produce a bound thesis in a form suitable for publication in a scientific journal. Students are strongly recommended to enroll for this course in the penultimate semester of their degree plan with the expectation that the work may take more than a semester to complete.

40970 SPECIAL PROBLEMS IN GEOLOGY. *Prerequisite: permission of instructor.* Field and laboratory problems for advanced undergraduate students. Fifty clock hours of laboratory and field work for each semester credit (1-6 semester hours.)

50113 SOILS. Two hours lecture and two hours laboratory per week. This course covers the formation, distribution, and classification of soils: major soil properties; field evaluation of soils; the use of soil survey information; and soil hydrology. The emphasis is on the study of soils as products of biophysical processes, and on soil properties of interest to geoscientists and natural resource managers.

50233 OPTICAL MINERALOGY AND PETROGRAPHY. *Prerequisite: permission of the instructor.* Two hours of lecture and one three hour laboratory period per week. Analysis of the behavior of light in crystalline substances, complete treatment of crystal optics and the identification of nonopaque, rock-forming minerals using immersion media and thin section techniques. Intensive use of the microscope required.

50251 SCANNING ELECTRON MICROSCOPY. *Prerequisite: Permission of the instructor.* Use of the S.E.M. in geological applications.

50331 BASIC SEISMICS. *Prerequisites: GEOL 40223.* Three hours of lecture per week for five weeks. An introduction to techniques of gathering, processing and interpreting seismic data.

50341 INTERPRETING SEISMIC DATA. *Prerequisites: GEOL 50331 or equivalent.* Three hours of laboratory per week for five weeks. A practicum in interpreting seismic data.

50351 SEISMIC STRATIGRAPHY. *Prerequisites: GEOL 50331 or equivalent.* Three hours of lecture per week for five weeks. An introduction to the principles of seismic stratigraphy and their application in oil and gas exploration.

50361 BASIC WELL LOG INTERPRETATION. *Prerequisite: GEOL 40223.* Three hours of lecture per week for five weeks. An introduction to the use of borehole geophysical logs in formation evaluation, correlation and subsurface facies analysis.

50413 GLOBAL TECTONICS AND BASIN ANALYSIS. *Prerequisite: permission of the instructor.* Three hours of lecture per week. Explores the relationship between plate motion and the evolution of sedimentary basins.

50423 PETROLEUM GEOLOGY. *Prerequisite: permission of the instructor.* Origin, migration and entrapment of hydrocarbons, exploration and production techniques used in the petroleum industry.

50433 COASTAL PROCESSES. Two hours of lecture and one two-hour laboratory per week. Advanced study of waves, winds, water levels, tides and currents and their interaction with shores, beaches, inlets, inner continental shelves and coastal structures. Other topics include tectonic, physical, climatic controls on coastline development, storms, and sediment transport in the coastal zone. Involves computer modeling. Required field trip to the Texas barrier islands.

50493 PHYSICAL HYDROLOGY. *Prerequisite Math 10524 or permission of instructor.* Two hours of lecture and two hours of laboratory per week. A study of the occurrence, movement, and exploitation of water in the hydrologic cycle including surface-atmosphere, groundwater, and surface water processes.

50543 SEDIMENTARY ENVIRONMENT AND FACIES. *Prerequisite: permission of the instructor.* Three hours of lecture per week. Facies analysis and facies models applied to the problem of interpreting stratigraphic sequences and reconstructing paleogeography.

50602 PREPARATION OF ENVIRONMENTAL IMPACT STATEMENTS. *Prerequisite: permission of the instructor.* Two laboratory periods per week. The methodology of environmental impact statement preparation from initial collection of data to final report drafting is covered. The course offers problem oriented exercises where students are trained to take the initiative in EIS preparation. (Also offered as BIOL 50602).

50603 INTRODUCTION TO GEOCHEMISTRY. *Prerequisite: CHEM 10114-10124 or permission of the instructor.* Three hours of lecture per week. Application of basic chemical principles to understanding the origin, distribution and migration of chemical elements in the earth's lithosphere, hydrosphere, atmosphere and biosphere.

50613 IGNEOUS AND METAMORPHIC PETROLOGY. *Prerequisite: GEOL 50233 or permission of the instructor.* Two hours of lecture and one three hour laboratory period per week. Petrogenesis of igneous and metamorphic rocks based on field, petrographic, chemical and isotopic data. Conferences on the evolution and dynamics of the crust and mantle. Involves use of microscope.

50623 VOLCANOLOGY. *Prerequisite: GEOL 50233 or permission of instructor.* Two hours of lecture and one three hour laboratory period per week. Types and processes of volcanic eruptions; characteristics of modern volcanic products; recognition and significance of ancient volcanic deposits in the stratigraphic record. Involves use of microscope. Field trip required.

50712 ENVIRONMENTAL GEOLOGY. *Prerequisite: permission of the instructor.* Three hours of lecture per week for ten weeks. Geologic processes, earth resources and engineering properties of crystal materials in the activities of society.

50721 GEOGRAPHIC INFORMATION SYSTEMS. *Prerequisite: permission of the instructor.* Three hours of lecture per week for five weeks. An introduction to computer systems for creating and managing large data bases and to techniques for displaying and interpreting layered environmental geologic data.

50731 REMOTE SENSING TECHNOLOGY. *Prerequisite: Permission of the instructor.* Three hours of lecture per week for five weeks. An introduction to the technology used in remote sensing, including MSS, TM and SPOT, thermal scanners and radar imaging.

50741 IMAGE PROCESSING. *Prerequisite: permission of the instructor.* Three hours of lecture per week for five weeks. An introduction to processing techniques used to enhance the display of remote sensing images with emphasis on those techniques useful in resource mapping.

50751 IMAGE INTERPRETATION. *Prerequisite: permission of the instructor.* Three hours of lecture per week for five weeks. Geologic and resource mapping and environmental monitoring using satellite images

50762 ADVANCED GIS. *Prerequisite: GEOL 50721.* Hands-on computer use to demonstrate advanced computer techniques for mapping. Introduction to Mapfactory, ERDAS and ArcView software programs to conduct raster and vector database layering projects for geological and environmental map production.

50773 INTRODUCTION TO ENVIRONMENTAL LAW. *Prerequisite: Enrollment in Environmental Sciences, Master of Science Program, or senior standing with appropriate major (biology, geology, chemistry or other science; engineering; pre-law; business management.)* Three hours lecture per week. Introduction to and analysis of selected federal statutes regulating environmental degradation and environmental clean-up, including the National Environmental Policy Act and regulation of air quality, water quality, wastes, hazardous and toxic substances and enforcement.

50783 ENVIRONMENTAL CHEMISTRY. *Prerequisites: CHEM 10113-10123 and CHEM 10122, or CHEM 10114-10124 or permission of the instructor.* Three hours of lecture per week. Chemistry of water, soil, energy, and air as related to environmental problems. Subjects include: nutrients and eutrophication, fluorocarbons, sulfur and nitrogen oxides, Eh-pH relationship, natural carbonate reactions, and cation exchange phenomena. Cross listed with CHEM 50783.

50883 INTRODUCTION TO ENVIRONMENTAL ENGINEERING TECHNOLOGY. *Prerequisite: permission of the instructor.* Introduction to fundamentals of pollution control technology; impact of federal and state legislation on the construction, modification and control of industrial plants. Other topics include hazardous pollutants, modification to ambient quality, and basic pollution modeling. (Also cited as BIOL 50883.)

50901 COMPUTER APPLICATIONS IN GEOLOGY. *Prerequisites: COSC 10403 or equivalent and permission of the instructor.* Three hours of lecture per week for five weeks. The use of microcomputers in Geology.

50912 STATISTICAL APPLICATIONS FOR MICROCOMPUTERS. *Prerequisite: GEOL 50901.* Three hours of lecture per week for ten weeks. Statistical treatment of directional data and the use of multivariate and special regression techniques analysis of variance, discriminate function analysis and factor analysis in solving geologic problems.

50922 MAPPING APPLICATIONS FOR MICROCOMPUTERS. *Prerequisite: GEOL 50901.* Three hours of lecture per week for ten weeks. Selecting and using mapping and drafting software.

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Health Care Ethics

Available as a minor. 18 semester hours, with courses to be taken from at least three different academic units, as follows:

Required Courses (9 hours):

PHIL 10003 Philosophy One
NURS 40303 Criticcal Inquiry into Heal Care Delivery
SOCI 20223 Social Problems

Elective Courses (9 hours):

HIST 40803 History of Medicine and Public Health
NURS 40113 Ethical Dilemmas in Health Care
PHIL 30313 Moral Problems
PHIL 30363 Ethis in Health Care
PHIL 40393 Ethical Theory
RELI 30083 Religion and Environmental Ethics
RELI 30723 Religion and Science
SOIC 30223 Contemporary Topics in Sociology
SOC 30643 Sociology of Aging
SOC 40523 Health, Illness and Medicine
SOWO 40520 Contemporary Topics in Social Work

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Mathematics

[Actuarial concentration in mathematics](#)
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(MATH)

Available as a major and a minor on the B.A. and B.S. degrees.

Requirements for the B.A. with a major in Mathematics. 28 semester hours of mathematics with a grade of C or better, of which 19 must consist of Math 10123, 10524, 20524, 30224, and 30524. An additional 9 hours must be chosen from among Math 10143 and mathematics courses at or above the 30000-level. Also required are Computer Science 10403 and Physics 20473 and 20483. A minimum of 128 semester hours is required for the degree.

Requirements for the B.S. with a major in Mathematics. 40 semester hours of mathematics with a grade of C or better, of which 28 must consist of Math 10123, 10524, 20524, 30224, 30524, 30803, 50253, and 50503. An additional 12 semester hours from among Math 10143 and mathematics courses at or above the 30000-level are required. Also required are Computer Science 10403 and Physics 20473 and 20483. A minimum of 132 semester hours is required for the degree.

Requirements for a minor in Mathematics. 18 semester hours of Mathematics with a grade of C or better, including Math 10524, 20524 and 30224, and an additional 6 semester hours at or above the 30000-level. Computer Science 10403 is also required.

Actuarial concentration in mathematics. This program may be pursued under either the BA or BS option as described above. mathematics coursework for the actuarial concentration must include Math 30603, Math 30803, Math 30853, and Math 40603. Additional required courses outside the Mathematics Department are Econ 10223, Econ 10233, Econ30223 and #con 30233 as well as Acct20153, Acct 20163 and Fina 30153. Students seeking a BA degree are advised to consider a minor in economics. All actuarial students need to work closely with an advisor to plan course schedules.

Secondary Teaching Certification. Students seeking certification for teaching Mathematics at the secondary school level should be advised by both the departmental secondary certification advisor and a secondary certification advisor in the School of Education. Specific requirements for Mathematics as a teaching field follow: For a single teaching field in Mathematics the B.S. program above should include in the 12 advanced hours Math 50303 and Math 50703. For two teaching fields, one of which is Mathematics, the B.A. requirements should include Math 30803 and Math 50303 among the advanced hours.

Mathematics Specialization for Elementary Education. This specialization requires 19 hours of mathematics including Math 10524, 20053, 20063, and 9 additional semester hours. At least 6 of the 9 semester hours must be advanced hours and should be selected in consultation with the departmental elementary certification mathematics advisor.

Honors Program. Mathematics majors who plan to pursue departmental honors must be members of the Honors Program. A minimum 3.5 GPA in the major is required. Course work must include at least three of Math 40353, 40663, 50253, 50263, 50323, 50403, 50503, 50513, 50613, 50623, 50633, and 50703, or substitutes approved by the department. Students should enroll in Math 30000 during their junior year and Math 40000 during the fall semester of their senior year. Departmental honors further require satisfactory presentation of thesis results to faculty.

Affiliations. TCU is an institutional member of the American Mathematical Society and of the Mathematical Association of America. The department holds a charter for Texas Alpha Chapter of Pi Mu Epsilon, a national mathematics honor society, and also participates in the sponsoring of a chapter of Sigma Xi, the honor society for research in the natural sciences.

General Information. Factors which determine a student's placement include 1) high school credits presented, 2) scores achieved in the SAT, ACT, or other appropriate examination, and 3) performance in advanced placement examinations. Advanced placement, with credit, is available for Math 10052, 10053, 10524, and 20524.

For a student taking a major in mathematics (B.A. or B.S), the recommended sequence for the first four semesters is Math 10524, 20524, 30224, and 30524. In either the first or second semester the student should also complete Computer Science 10403. In addition, Math 10123 should be taken in one of the first four semesters.

Students planning to do graduate work in mathematics should take Math 50253, 50263, 50503, and 50513.

Students with majors in business ordinarily select from Math 10053, 10283, 10524, and 20524. Credit is not allowed for both Math 10043 and Desc 20153.

Credit is not allowed for both Math 10283 and Math 10524.

Pass/No Credit Option. Mathematics courses to be applied to a major in mathematics may not be taken Pass/No Credit.

The following is a complete list of courses offered by this department. Go to Class Search on Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

10023 FUNDAMENTALS OF ALGEBRA. Operations with polynomials. Fractions and exponents. Linear and quadratic equations, with applications. Arithmetic, geometric, and binomial series. Note: This course does not satisfy the UCR in mathematics. Credit will not be given in this course to anyone who has already received credit for any other mathematics course at TCU or comparable or higher-level course at other institutions or credit through AP/CLEP exams.

10033 TOPICS IN MATHEMATICS. *Prerequisite: Math 10023 or two years of high school algebra and one year of geometry.* A selection of topics of general interest and some degree of applicability, such as mathematical modeling, geometry, deductive reasoning, mathematics of finance, probability, and statistics.

10043 ELEMENTARY STATISTICS. *Prerequisite: Math 10023 or two years of high school algebra.* Empirical frequency distributions, binomial and normal distributions. Regression and correlation. Statistical inference. Note: credit will not be given for both Math 10043 and Desc 20153.

10052 TRIGONOMETRY. *Prerequisite: Math 10023 or two years of high school algebra and one year of geometry.* The trigonometric functions, their graphs, and applications. Note: This course does not satisfy the UCR in mathematics.

10053 PRECALCULUS. *Prerequisite: Math 10023 or two years of high school algebra and one year of geometry.* A conceptual introduction to functions with particular emphasis on topics needed for calculus. Study of linear, exponential, logarithmic, polynomial, and rational functions. Note: This course does not satisfy the UCR in mathematics.

10123 DISCRETE MATHEMATICS I. *Prerequisite: Math 10053 or two years of high school algebra.* Discrete algebraic structures. Algorithms and applications to programming. Selected topics such as recursion and induction, combinatorics, binary relations, graphs and trees, language, automata.

10143 DISCRETE MATHEMATICS II. *Prerequisite: Math 10123.* Continuation of Math 10123.

10283 APPLIED CALCULUS. *Prerequisite: Math 10053 or two years of high school algebra and one year of geometry.* The elements of calculus, with applications to business and economics. Note: credit will not be given for both Math 10283 and Math 10524.

10524 CALCULUS I. *Prerequisite: Math 10053 and Math 10052 or equivalents.* Differential and integral calculus of elementary functions, including exponential, logarithmic, and trigonometric functions. Applications. Note: credit will not be given for both Math 10283 and Math 10524.

20053 FUNDAMENTALS OF MODERN MATHEMATICS. Topics will be selected from: an introduction to mathematical reasoning, logic, sets, relations and functions, development of the real number system, systems of enumeration, change of base, elementary number theory, finance. Note: may not be counted toward a major or minor in mathematics. Also, this course does not satisfy the UCR in mathematics.

20063 TOPICS IN MODERN MATHEMATICS. *Prerequisite: Math 20053.* Topics will be selected from: probability, elementary statistics, introductory geometry, congruence, constructions, the Cartesian coordinate system, systems of measurement, geometric transformations. Note: may not be counted toward a major or minor in mathematics. Also, this course does not satisfy the UCR in mathematics.

20524 CALCULUS II. *Prerequisite: Math 10524.* Techniques of integration and applications. Infinite series. Differential equations as time permits.

20970 SPECIAL TOPICS. (1 - 3 semester hours).

30000 HONORS SEMINAR. *Prerequisite: Math 30224 or permission of the instructor.* (1 - 3 semester hours).

30133 SYMBOLIC LOGIC I. (PHIL 30133). An introduction to the scope and limits of modern logic. The nature of logical systems and various areas of logic. Alternative proof procedures in propositional logic and predicate logic.

30143 SYMBOLIC LOGIC II. (PHIL 30143). *Prerequisite: Math/Phil 30133.* A continuation of Math/Phil 30133, with an emphasis in predicate logic, nonstandard logics, and metalogic.

30224 LINEAR ALGEBRA. *Prerequisite: Math 10524 and either Math 10123 or Math 20524.* Vector spaces, linear independence, bases, and dimension. Linear mappings, matrices, and determinants. Eigenvalues and eigenvectors, diagonalization.

30524 CALCULUS III. *Prerequisite: Math 20524.* Vector calculus and multiple integration. Optimization and Lagrange multipliers. Vector fields and potential functions. Gradient, curl, and divergence. Line and surface integrals. The theorems of Green, Stokes, and Gauss, as time permits.

30603 INTEREST THEORY. *Prerequisite: Math 20534.* A rigorous development of the theory of interest in both discrete and continuous time. Present value, yield rates, compound interest, amortization, and cash flows. Selected financial applications to bonds and securities.

30613 DIFFERENTIAL EQUATIONS. *Prerequisite: Math 20524.* Solution techniques for ordinary differential equations. Systems of differential equations. Mathematical modeling and applications.

30803 PROBABILITY AND STATISTICS I. *Prerequisite: Math 10524.* Probability theory. Permutations, combinations, elementary probability, and the binomial theorem. Frequency distributions, mean and standard deviation.

30853 STATISTICS. *Prerequisite: Math 20524 and Math 30803.* Organization and analysis of data. Descriptive statistics. Confidence intervals and hypothesis testing. As time permits, topics in regression, analysis of variance, nonparametric statistics, sampling methods.

4000 UNDERGRADUATE RESEARCH. *Prerequisite: twelve semester hours of mathematics. (1 - 3 semester hours).*

40353 TOPOLOGY. *Prerequisite: Math 30224 and Math 30524.* Topological spaces, bases, connectedness, compactness. Continuous functions and homeomorphisms. Separation properties. Product and quotient spaces. Metric spaces.

40603 ACTUARIAL MATHEMATICS. *Prerequisites: Math 30524 and Math 30803.* Applications of calculus, probability and statistics, emphasizing problems in risk management and insurance.

40663 NUMERICAL ANALYSIS. *Prerequisite: Math 20524, Math 30613, and competence in a high-level programming language.* Interpolation. Solution of nonlinear equations. Numerical integration and differentiation. Approximate solutions to ordinary differential equations.

40970 SPECIAL TOPICS. *Prerequisite: Math 30524 or permission of the instructor. (1 - 6 semester hours).*

50073 HISTORY OF MATHEMATICS. *Prerequisite: advanced standing in mathematics or permission of the instructor.* A survey of the history of mathematics from ancient times to the seventeenth century. Emphasis on topics closely related to contemporary mathematics.

50253 ABSTRACT ALGEBRA I. *Prerequisite: Math 10123 and Math 30224.* Introduction to groups and rings. Homomorphisms, isomorphisms, subgroups, and ideals. Quotient and product structures.

50263 ABSTRACT ALGEBRA II. *Prerequisite: Math 50253.* A continuation of Math 50253. Introduction to field extensions and Galois theory. Advanced topics in groups and rings.

50303 STUDIES IN GEOMETRY AND TOPOLOGY. *Prerequisite: twelve semester hours of mathematics or permission of the instructor.* Analytic geometry of euclidean space, topology of euclidean space and surfaces, metrics, non-euclidean geometry.

50323 DIFFERENTIAL GEOMETRY. *Prerequisite: Math 30224 and Math 30524.* Calculus on euclidean space. Geometry of curves and surfaces. Connections and curvature.

50403 COMPLEX ANALYSIS. *Prerequisite: Math 30524.* Analytic functions, harmonic functions, and the Cauchy-Riemann equations. Conformal mappings. Cauchy's integral theorem and formula, with applications. Power series and analytic continuation.

50503 REAL ANALYSIS I. *Prerequisite: Math 10123, Math 30224, and Math 30524.* A rigorous development of elementary limit processes. Continuity, sequences, series, differentiation, integration.

50513 REAL ANALYSIS II. *Prerequisite: Math 50503.* A continuation of Math 50503. Multivariable calculus, including the Implicit Function Theorem and change of variables. Other selected topics.

50613 PARTIAL DIFFERENTIAL EQUATIONS. *Prerequisite: Math 30613.* Basic theory of hyperbolic, parabolic, and elliptic partial differential equations.

50623 APPLIED MATHEMATICS I. *Prerequisite: Math 30224, Math 30524 and Math 30613.* Selected topics, such as linear and nonlinear systems, equilibria, Fourier series, computational graph theory, optimization and linear programming, calculus of variations, complex integration.

50633 APPLIED MATHEMATICS II. *Prerequisite: Math 50623.* Continuation of Math 50623.

50703 NUMBER THEORY. *Prerequisite: Math 10123 and Math 30224.* Properties of the integers. Divisibility, prime numbers, modular arithmetic, Chinese Remainder Theorem, Diophantine equations.

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Neuroscience

Available as a major on the B.S. degree.

This interdisciplinary major is built upon the understanding of basic principles in neuroscience. Neuroscience blends areas within Psychology, Biology and Chemistry which converge on the understanding of the brain and its relationship to the behavior and physiology of living organisms. A total of 132 semester hours is required. Students may obtain information and/or advisement from the Department of Psychology.

Pass/No Credit Option. Pass/No Credit is acceptable for courses in the major and minor, if any.

The program consists of the following requirements:

1. BIOLOGY-20 hours

A. Required Courses, 8 hours:

BIOL 10504 Principles of Life Sciences
BIOL 10514 Principles of Life Sciences

B. Minimum of 12 hours selected from:

BIOL 30303 Microbiology
BIOL 30404 Comparative Vertebrate Anatomy
BIOL 30603 Cellular, Molecular and Developmental Biology
BIOL 40123 Genetics
BIOL 40203 Histology
BIOL 40404 General Animal Physiology

2. CHEMISTRY-23 hours

A. Required Courses, 18 hours:

CHEM 10113-10123 General Chemistry
CHEM 10122 General Chemistry Laboratory
CHEM 30122 Organic Chemistry Laboratory
CHEM 30123-30133 Organic Chemistry
CHEM 30132 Organic Qualitative Analysis

B. Minimum of 6 hours selected from:

CHEM 50133 Biochemistry
CHEM 50143 Biochemistry
CHEM 50502 Biochemistry Laboratory
CHEM 50993 Neurochemistry

3. PSYCHOLOGY-23 hours

A. Required Courses, 8 hours:

PSYC 10514 Principles of Behavior I
PSYC 10524 Principles of Behavior II

B. Minimum of 6 hours selected from:

PSYC 30363 Abnormal Psychology
PSYC 30414 Experimental Psychology: Learning
PSYC 30423 Experimental Psychology: Perception
PSYC 30433 Experimental Psychology: Motivation
PSYC 30503 Behavioral Research

C. Minimum of 9 hours selected from:

PSYC 30463 Physiological Psychology
PSYC 30483 Neuropsychology
PSYC 50463 Fundamentals of Neuroscience
PSYC 50472 Laboratory in Physiological Psychology and Neuroscience
PSYC 50482 Laboratory in Physiological Psychology and Neuroscience
PSYC 50513 Psychopharmacology

4. PHYSICS-8 hours

PHYS 10151 General Physics I Laboratory
PHYS 10153 General Physics I

PHYS 10161 General Physics II Laboratory
PHYS 10163 General Physics II

5. MATHEMATICS AND COMPUTER SCIENCE-Minimum of 6 hours selected from

MATH 10043 Elementary Statistics
MATH 10524 Calculus I
COSC 10403 Introduction to Programming

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Nutritional Sciences

[Summer Study Abroad.](#)

[Honors Program](#)

[Option I. Coordinated Program in Dietetics](#)

[Option II. Nutrition \(Didactic Program in Dietetics\)](#)

[Option III. Food Management](#)

[Courses of Instruction](#)

(NTDT)

Available as a major on the B.S. degree and a minor on the B.S. and B.A. degrees. The three degree options include:

Option I - Coordinated Program in Dietetics (American Dietetic Association)

Option II - Nutrition (Didactic Program in Dietetics, American Dietetic Association)

Option III - Food Management

General Requirements. All B.S. degrees in Nutrition and Dietetics follow the University Curriculum Requirements for the College of Science and Engineering.

Minor. To earn a minor in Nutrition, the student must complete 18 semester hours in Nutrition. Required courses include NTDT 10103, 10403, 30123, 30333, and 40363. The remaining three advanced hours may be selected from the following courses: NTDT 30133, 40333, 40343, or 40403.

Affiliations. Students who demonstrate high scholarship are eligible for membership in the Beta Zeta chapter of Phi Upsilon Omicron, national honor society. The department sponsors a chapter of the Texas Student Dietetic Association. All NTDT majors are encouraged to join the American Dietetic Association (ADA), as well as the state and local chapters of the ADA.

Pass/No Credit Option. All courses in the Department of Nutrition and Dietetics applied toward the major and minor must be taken on the letter grade system.

Summer Study Abroad. The European Cultural Seminar is planned for students interested in obtaining a broad view of the environment of other countries. Students are expected to participate in four three-hour classes on the TCU campus prior to departure. Written assignments are required relative to the area of student interest. The course will carry 3 semester hours of undergraduate credit.

Honors Program. Nutrition and Dietetics majors who plan to pursue Departmental Honors must be members of the Honors Program and should enroll in NTDT 30003 during their junior year and NTDT 40003 during the fall semester of their senior year.

Option I. Coordinated Program in Dietetics

A Coordinated Program in Dietetics is an academic program in a US regionally accredited college or university that culminates in a minimum of a baccalaureate degree. The Coordinated Program in Dietetics at TCU offers the unique opportunity to acquire both the required didactic instruction (lecture and laboratory courses) and the minimum 900 clock hours of supervised practice necessary to meet the Foundation Knowledge and Skills and Competencies for Entry-Level Dietitians and the Standards of Education of the Commission on Accreditation for Dietetics Education (CADE) of The American Dietetic Association. Graduates receive verification/establish eligibility to write the registration examination for dietitians and/or apply for active membership in The American Dietetic Association.

The didactic instruction in the Coordinated Program in Dietetics combines course work emphasizing the foundations of dietetic knowledge (communications, physical and biological sciences, social sciences, research, food, nutrition, management, and health care systems). The supervised practice experience involves working with dietetic professionals to demonstrate performance in foodservice systems management, medical nutrition therapy, community nutrition, and business/entrepreneurial dietetics.

Admission to TCU is required for all programs; however, admission to the University does not guarantee admission to the Coordinated Program in Dietetics. Eligibility for admission to the Coordinated Program in Dietetics is based on successful completion of at least 60 semester hours with a cumulative GPA of at least 2.7 on a 4.0 scale, 39 semester hours of required prerequisites and major courses (as listed below), and an application packet. Application packets for the Coordinated Program must be received by February 1, and applicants are notified of provisional acceptance by April 15. Students who are accepted will begin course work and supervised practice the subsequent fall semester. Final acceptance/enrollment in the Coordinated Program in Dietetics depends on successful completion of work in progress and required summer school prerequisites.

The Texas Christian University Coordinated Program in Dietetics is currently granted accreditation status by the Commission on Accreditation for Dietetics Education (CADE) of The American Dietetic Association, 216 West Jackson Boulevard, Chicago, IL 60606-6995; www.eatright.org., 312-899-4876.

Major Requirements: NTDT 10103, 10403, 20383, 30123, 30144, 30303, 30304, 30313, 30316, 30333, 40333, 40337, 40343, 40353, 40363, 40364, 40373, 40403. Total NTDT credit hours: 64. Other Required Courses: CHEM 10113, 10122, 10123, 30123, 40501 and 40503; BIOL 20214 and 20233; MATH 10043; ECON 10223; SOCI 20213; PSYC 10213; and MANA 30153.

No minor is required. A total of 136 semester hours is required for the baccalaureate degree.

Option II. Nutrition (Didactic Program in Dietetics)

A Didactic Program in Dietetics is an academic program in a US regionally accredited college or university that culminates in a minimum of a baccalaureate degree. The Didactic Program in Dietetics at TCU offers the required didactic instruction (lecture and laboratory classes) to meet the Foundation Knowledge and Skills and the Standards of Education of the Commission on Accreditation for Dietetics Education (CADE) of The American Dietetic Association. Graduates of the Didactic Program in Dietetics are eligible to apply for a post-baccalaureate supervised practice program (Dietetic Internship) leading to eligibility to write the registration examination for dietitians and/or apply for associate membership in The American Dietetic Association.

The mission of the Didactic Program in Dietetics (DPD) at Texas Christian University (TCU) is to educate students within a liberal arts environment and to provide Foundation Knowledge and Skills for the didactic component of entry-level dietetic programs. The DPD combines coursework emphasizing the foundations of dietetic knowledge (communications, physical and biological sciences, social sciences, research, food, nutrition, management, and health care systems).

Costs for tuition and university fees are available through the Office of Admissions or Financial Services. More detailed costs for students are outlined in the Didactic Program in Dietetics Student Handbook and include approximately \$500-1000 per year for items such as textbooks, uniform/lab coat, and professional dues.

The Texas Christian University Didactic Program in Dietetics is currently granted developmental accreditation by the Commission on Accreditation for Dietetics Education of The American Dietetic Association, 216 W. Jackson Blvd., Chicago, IL 60606-6995, 312/899-5400.

Major Requirements: NTDT 10103, 10403, 20383, 30123, 30144, 30303, 30313, 30333, 40333, 40343, 40353, 40363, 40403. Total NTDT credit hours: 40. Other Required Courses: CHEM 10113, 10122, 10123, 30123, 40501, and 40503; BIOL 20214 and 20233; MATH 10043; ECON 10223; SOCI 20213; PSYC 10213; and MANA 30153. No minor is required.

A total of 124 semester hours is required for the baccalaureate degree.

Option III. Food Management

The Food Management major is designed for students who elect to emphasize the business aspects of the food and nutrition industry. It offers a four-year curriculum emphasizing course work in the procurement, production, distribution, service, and management of foodservice systems and results in a baccalaureate degree. The major culminates in a supervised practice experience in the food industry or a foodservice operation. A minor in general business, public relations, or radio-tv-film is recommended.

Graduates of this program are eligible for positions in sales (food and equipment vendors); promotion (food brokers and advertising); consumer education (industry representatives and professional food demonstrators); food safety and sanitation; media (radio, television, newspaper and other publications); operations (commercial, institutional, and military foodservice establishments); and/or entrepreneurial ventures (catering, consulting, and food styling).

Major Requirements: NTDT 10103, 10403, 20113, 20383, 30103, 30123, 30133, 30144, 30303, 30313, 40353, 40403, 40970. Total NTDT credit hours: 41-43. Other Required Courses: CHEM 10113, 10122, 10123; BIOL 20233; MATH 10043; ACCT 20153; MANA 30153; MARK 30153. Recommended Electives: NTDT 30333, NTDT 40162, NTDT 40343, 40353, 40363, ACCT 20153 and 20163; FINA 30153; MANA 30203; and MARK 30153.

Minor Requirements: General Business, Public Relations/Advertising, Radio-Television-Film or other approved minor.

A total of 124 semester hours is required for the baccalaureate degree.

The following is a complete list of courses offered by this department. Go to Class Search on Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

10103 FOOD PREPARATION. Two 1-hour lectures, one 2-hour laboratory per week. Scientific principles and fundamental processes underlying food preparation with practical application.

10201 NUTRITION CONCEPTS. (Not available to students who have completed NTDT 10403.) Nutrition information necessary for health promotion.

10211 NUTRITION AND WEIGHT CONTROL. Relationship of nutrition to weight control.

10221 SPORTS NUTRITION. Basic fundamentals of nutrition applicable to the sports-minded individual.

10403 NUTRITION. The science of nutrition integrating physiological, biochemical, and psychological aspects of

food ingestion and nutrient utilization.

20113 ISSUES OF FOOD IN SOCIETY. An in-depth study of local, national, and international food issues and the way critical analysis and rational thought can be utilized in the study of these issues. The role of ethics in determining values and justifying positions related to food and nutrition is emphasized.

20383 COMPUTER APPLICATIONS IN FOODSERVICE AND NUTRITION CARE SYSTEMS. Experience in computer software applications in word processing, spreadsheet analysis, graphic data representation, nutrient analysis, nutritional assessment, and foodservice operational subsystems.

30003 HONORS SEMINAR. *Prerequisite: Advanced standing in Nutrition and Dietetics and recommendation of the chair.* Studies, reports and discussions of literature related to significant problems and trends in Nutrition and Dietetics. Selection and design of a research project.

30103 GOURMET FOODS. Two 1-hour lectures, one 2-hour laboratory per week. Planning, preparation and presentation of nutritious, attractive gourmet food, with practical laboratory experiences.

30113 DEMONSTRATION TECHNIQUES. Current trends in demonstrating food preparation and using equipment. Demonstrations developed and presented by students in the class.

30123 NUTRITION THROUGHOUT THE LIFE CYCLE. A study of the relationship of nutritional requirements to the life cycle, prenatal to old age; cultural and socioeconomic factors related to food with major focus on nutrition and health; nutritional assessment; interrelationships of nutrients; other nutrition related issues such as dental health, weight management, athletic training, drugs and alcohol, government agencies, and nutrition education for all age groups.

30133 MEAL MANAGEMENT. Two 1-hour lectures, one 2-hour laboratory per week. Managing resources in meal planning and preparation; technology of food preservation; identification of market places and legislative concerns; aesthetic and practical experience in a laboratory.

30144 QUANTITY FOOD PRODUCTION. Three 1-hour lectures and one 3-hour laboratory/supervised practice per week. *Prerequisite: NTD 10103.* Advanced study in food preparation, emphasizing standards, principles and techniques of producing quality food in quantity. Care and use of equipment, work simplification, menu planning, and basic cost controls.

30303 OVERVIEW OF FOODSERVICE AND NUTRITION CARE SYSTEMS. *Prerequisite: MANA 30153 or permission of instructor.* Introduction to foodservice and nutrition care systems emphasizing the systems approach, managerial principles, organizational behavior, educational principles, personnel management and counseling.

30304 SUPERVISED PRACTICE IN GENERAL DIETETICS. Two lecture hours and six to eight hours of supervised practice per week. *Prerequisite: Admission to Coordinated Program in Dietetics and concurrent enrollment in NTD 30303.* Introduction to the practice of all aspects of dietetics through weekly observation and participation in foodservice and nutrition care settings.

30313 FOOD SYSTEMS MANAGEMENT. *Prerequisites: NTD 30144 and 30303.* Systems approach to the organization and management of foodservice operations including the functional subsystems (procurement, production, service, and maintenance).

30316 SUPERVISED PRACTICE IN FOOD SYSTEMS MANAGEMENT. Two lecture hours and sixteen hours of supervised practice per week. *Prerequisites: Admission to Coordinated Program in Dietetics and concurrent enrollment in NTD 30313.* Selected problems and supervised practice directly correlated with NTD 30313.

30333 MEDICAL NUTRITION THERAPY I. *Prerequisites: NTD 10403 and 30123, CHEM 30123 and BIOL 20214, or permission of the instructor.* Knowledge and skills necessary for nutrition assessment as a component of Medical Nutrition Therapy. Lecture and laboratory format provide skill enhancement in nutrition counseling, dietary evaluation, nutrition support, and calculation of therapeutic diets.

40003 SENIOR HONORS RESEARCH. *Prerequisite: Advanced standing in Nutrition and Dietetics and recommendation of the chair.* Preparation of a research paper under the direction of the Nutrition and Dietetics faculty. The paper will be designed to partially fulfill the requirement for Departmental Honors.

40162 FOOD FACILITY PLANNING. Layout and planning of quantity foodservice systems. Includes work flow analysis and equipment selection.

40333 MEDICAL NUTRITION THERAPY II. *Prerequisites: NTD 30333 and CHEM 40503, or permission of the instructor.* Physiological and biochemical abnormalities associated with various diseases and disorders. Advanced knowledge and techniques necessary for comprehensive medical nutrition therapy. Discussion of the importance of nutrition intervention and the role of the registered dietitian as a member of the health care team.

40337 SUPERVISED PRACTICE IN MEDICAL NUTRITION THERAPY. Two lecture hours and 20 hours of supervised practice per week. *Prerequisites: Enrollment in Coordinated Program in Dietetics, NTD 30316 and concurrent enrollment in NTD 40333.* Application of principles of nutritional care in a clinical setting under the supervision of a Registered Dietitian.

40343 ADVANCED NUTRITION. *Prerequisites: NTD 10403 and 30123; BIOL 20214; CHEM 30123, 40501, and 45003.* Nutrition science using physiological and biochemical bases. Evaluation of current nutritional frauds.

40353 EXPERIMENTAL FOODS. Two 1-hour lectures and one 2-hour laboratory per week. *Prerequisites: NTD*

10103, 10403, CHEM 30123 or permission of instructor. Advanced theory and methods used in study of chemical and physical factors affecting food preparation and processing. Application of analytical methods to sensory and instrumental evaluation of food quality.

40363 COMMUNITY NUTRITION. *Prerequisites: NTD 30123, 30303, or permission of instructor.* Nutritional problems and the services available in the community. Management of nutrition services, provision of nutrition information to the public, and the legislative process.

40364 SUPERVISED PRACTICE IN COMMUNITY NUTRITION. Two lecture hours and twenty hours of supervised practice per week (8 weeks). *Prerequisites: Enrollment in Coordinated Program in Dietetics, NTD 40337, and concurrent enrollment in NTD 40363.* Supervised experiences in selected community agencies and schools with emphasis on the provision of nutritional services and education.

40373 CULMINATING SUPERVISED PRACTICE. Two lecture hours and twenty hours of supervised practice per week (6 weeks). *Prerequisite: Enrollment in Coordinated Program in Dietetics, NTD 40364, and concurrent enrollment in NTD 40363.* Supervised experience while working as an independent staff dietitian in an area of chosen specialty.

40403 RESEARCH METHODS IN NUTRITION. *Prerequisites: Junior or Senior, NTD 10403, NTD 30123, and statistics or permission of instructor.* Fundamentals of research design in nutrition. Completion of an individual research paper which incorporates proper research design, methodology, analysis, writing style, and writing format utilized in a nutrition research journal. Primarily designed for students with an interest in Nutrition and Dietetics.

40413 PROCUREMENT FOR THE FOODSERVICE OPERATION. *Prerequisites: NTD 30144 and 30313.* Managerial functions of purchasing, receiving, storing, and inventory control of materials for foodservice operations. Current economic, legislative, commercial, and industrial developments.

40423 ADVANCED FOOD SYSTEMS MANAGEMENT. *Prerequisites: NTD 30144, 30303, and 30313.* Advanced study of organization and management of foodservice operations. Financial management, marketing, and system analysis concepts applied to the foodservice industry.

40431 SEMINAR IN FOODSERVICE AND NUTRITIONAL CARE SYSTEMS. Current trends and issues in nutrition care systems and the foodservice industry.

40970 SPECIAL PROBLEMS. Hours to be arranged. Special problems requiring independent research and study within a related area of field experience in food, nutrition, or dietetics (1-6 sem. hrs).

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Physics and Astronomy

[B.S./M.B.A. program in Physics and Business.](#)

[B.S. degree in Physics with a secondary concentration in another field.](#)

[B.A. degree with a major in Physics](#)

[Minor in Physics](#)

[Minor in Astronomy](#)

[Honors Program.](#)

[Honors Societies.](#)

[Courses of Instruction](#)

(PHYS)

Available as a major or minor on the B.A. and B.S. degrees with options listed below.

UCR requirements for B.S. programs in Physics and Astronomy are: Writing Workshop (6 hrs.), Social Science (9 hrs.), Cultural Heritage (15 hrs.), Languages and Literature (9 hrs.), Physical Education (2 hrs.), Writing emphasis (6 hrs. usually combined with other requirements) for a minimum total of 41 hours; Science and Mathematics requirements are fulfilled in the Physics and Astronomy programs.

I) Requirements for the B.S. Degree with a major in Physics. Thirty-six hours of physics are required, including PHYS 20473, 20471, 20483, 20481, 30493, 30491, and twenty-four hours selected from 30013, 30553, 30603, 30703, 40113, 40653, 40663, 50703, 50713, 50723, 50733, 50743, and either 40103 or 40003. It is recommended that students planning to attend graduate school take PHYS 30553, 30603, 40113, 40653 and 40663. Twenty-two hours of mathematics are required, including MATH 10524, 20524, 30224 and 30524. Students planning to attend graduate school should take MATH 50623 and 50633. Also required are: COSC 10403 or an approved substitute; CHEM 10113, 10123 and 10122 (or 10114 and 10124). Study of a modern language is recommended. A total of 132 hours is required for a B.S. Degree in Physics.

II) Requirements for the B.S. degree with a major in Astronomy and Physics. Thirty-six semester hours of Physics and Astronomy including 10153, 10151, 10163, 10161, (or 20473, 20471, 20483, 20481), 30493, 20073, 20083, 30113, 30111, and 50743 also twelve hours selected from PHYS 30013, 30553, 30603, 30703, 40113, 40653, 40663, 50703, 50713, 50723, 50733, and either 40103 or 40003. It is recommended that students planning to attend graduate school take PHYS 30553, 30603, 40113, and 40653. Sixteen hours of mathematics are required including MATH 10524, 20524, 30224, 30524. It is recommended that students planning to attend graduate school take MATH 50623 and 50633. Also required are COSC 10403, and either (a) CHEM 10113, 10123, and 10122 (or 10114 and 10124), or (b) CHEM 10113, GEOL 10113 and 30213. Study of a modern language is recommended. A total of 132 hours is required for a B.S. degree in Astronomy and Physics.

III) Requirements for the B.S./M.B.A. program in Physics and Business. Thirty hours of physics are required including 20473, 20471, 20483, 20481 (or 10153, 10151, 10163, 10161), and 30493, plus nineteen selected from 20073, 20083, 30013, 30113, 30111, 30491, 30553, 30603, 40113, 40653, 40663, 50703, 50713, 50723, 50633, 50743, and either 40103 or 40003. Sixteen hours of mathematics are required including MATH 10524, 20524, 30224, and 30524. Also required are COSC 10403, CHEM 10113, ECON 10223, 10233, and BUAD 10013. In the fourth year, students take twenty-four hours of approved M.B.A. courses.

The total requirement for the B.S. in Physics is 132 hours, which includes twenty-seven hours of M.B.A. courses taken in the fourth year. In the fifth year the student takes M.B.A. courses to complete the requirements for the M.B.A. degree. If the specified requirements were fulfilled at a reasonable rate, the student would be eligible to receive a B.S. degree in physics in four years and an M.B.A. degree in five years. Students must apply to the MBA program in their junior year. For admission to the MBA program refer to the School of Business section of this Bulletin.

IV) Requirements for a B.S. degree in Physics with a secondary concentration in another field. Thirty hours of physics are required, including eleven hours of PHYS 20473, 20471, 20483, 20481 (or 10153, 10151, 10163, 10161), and 30493, also nineteen hours selected from PHYS 30013, 30113, 30111, 30491, 30553, 30603, 30703, 40113, 40653, 40663, 50703, 50713, 50723, 50733, 50743, and either 40103 or 40003. (It is recommended that nine or more hours be selected from 30553, 30603, 40113, and 40653). Associated requirements are: Sixteen hours of MATH 10524, 20524, 30224, and 30524; COSC 10403 or an approved substitute; CHEM 10113; and an approved Secondary Concentration with a minimum of 24 hours. The total requirement for a B.S. degree in physics with a secondary concentration is 132 hours. The approved concentrations with respective additional requirements are:

A) B.S. degree in Physics with secondary concentration in the Bio-Medical Field. (For students interested in Pre-Med or in Biophysics graduate programs.) The same requirements as in Section IV, plus CHEM 10113, 10123, 10122, 30123, 30122, 30133, 30132; BIOL 10504, 10514 (an additional six hours selected from BIOL 30404, 30603, 40123, 40223 are recommended).

B) B.S. degree in Physics with secondary concentration in Environmental Science. (This option prepares students for graduate work in Physics or Environmental Science.) The same requirements as in Section IV, plus CHEM 10123; BIOL 10504, 10514, 30403, and three hours of approved upper level biology courses; GEOL 10113, 10143, 30393, and three hours selected from 30113, 30323, 50712, 50721, or 50783.

C) B.S. degree in Physics with secondary concentration in Computer Modeling. (This option prepares students for graduate work in Physics). The same requirements as in Section IV except that PHYS 50733 and an approved project in either PHYS 40103, or 40003 are required. Additional requirements are COSC 20101, 20203, 20803, 30203 30403, also three hours selected from COSC 30803, 40503, 40903, or 50123; MATH 30613, 50613, and 40663.

D) B.S. degree in Physics with secondary concentration in Electronics. (This option prepares students for graduate studies in Electrical Engineering or Physics.) Same requirements as in Section IV except that PHYS 40113 and 40653 (or ENGR 30543) are required, and PHYS 40663 is recommended. Additional requirements are, ENGR 10042, 20404, 20413, 30013, 30444, 30454, 40454, and MATH 30613.

V) Requirements for the B.A. degree with a major in Physics. Twenty-six hours in Physics including PHYS 20473, 20471, 20483, 20481 (or with permission 10151, 10153, 10161, 10163), 30493. Twelve hours of mathematics are required including MATH 10524, 20524 and 30224. The total number of hours for the B.A. in Physics is 124. Students planning graduate study in physics should seek the B.S. degree.

VI) Requirements for a minor in Physics. Eighteen hours of Physics including PHYS 10153, 10151, 10163 and 10161 (or PHYS 20473, 20471, 20483 and 20481), and 6 hours of upper division courses (30000 or above).

VII) Requirements for a minor in Astronomy. Required courses: PHYS 10153, 10151, 10163, 10161, Astronomy 20073, 20083, 30113, and 30111, plus 2 additional upper division hours of Physics and Astronomy.

Honors Program. Physics and Astronomy majors who plan to pursue Departmental Honors must be enrolled in the Honors Program. Students should take PHYS 30003 during their junior year and PHYS 40003 during their senior year.

Honors Societies. The department sponsors Sigma Pi Sigma, the national honor society in Physics and Sigma Xi, the Honor Society for Research in the Natural Sciences.

Pass/No Credit Option. Courses for the major and minor may be taken on the Pass/No Credit basis.

The following is a complete list of courses offered by this department. Go to Class Search on Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

GROUP I - Introductory Physics Courses for Non-Science Majors

10073 CONCEPTS IN PHYSICAL SCIENCE. A laboratory science course for those with no previous background in physics, designed to stress the formulation of physical concepts at different levels of abstraction. Especially useful for education majors to gain insight and experience with science content and for music majors as a prerequisite to an understanding of musical acoustics.

10153 GENERAL PHYSICS I. *Prerequisites: High school algebra and trigonometry or MATH 10053 and MATH 10052 or approval of instructor.* Part of a two-semester survey of general physics recommended for students in the life sciences and premedical program. Topics covered in the sequence will include mechanics of solids and fluids, thermodynamics, sound and wave motion, optics, electricity and magnetism, atomic and nuclear physics. Emphasis will be given to the application of these concepts to problems in the life and health sciences.

10151 GENERAL PHYSICS I LABORATORY. Three hours laboratory. *Prerequisite: PHYS 10153, which is normally taken concurrently.* Part one of a two semester sequence recommended for students enrolled in PHYS 10153. The sequence consists of selected experiments associated with PHYS 10153 and 10163.

10163 GENERAL PHYSICS II. *Prerequisite: PHYS 10153.* Continuation of Physics 10153.

10161 GENERAL PHYSICS II LABORATORY. Three hours laboratory. *Prerequisite: PHYS 10163, which is normally taken concurrently.*

20053 PHYSICS OF MUSIC AND SOUND. Two hours lecture and 3 hours laboratory. *Prerequisite: Sophomore standing or approval of instructor.* Nature and transmission of sound characteristics of musical instruments and speech, musical intervals, musical scales, musical temperament, and architectural acoustics. The laboratory includes experiments on vibration, resonance, objective and subjective characteristics of sound, and sound synthesis.

GROUP II- Introductory Astronomy Courses for Non-Science and Science Majors

20013 INTRODUCTORY ASTRONOMY. Structure and origin of the solar system. (Students may receive credit for PHYS 20013 or 20073, but not both).

20023 INTRODUCTORY ASTRONOMY. Stars, galaxies, stellar evolution, and cosmology. (Students may receive credit for PHYS 20023 or 20083, but not both).

20073 INTRODUCTORY ASTRONOMY. Three hours lecture and laboratory assignments. Structure and origin of the solar system. Laboratory assignments may be scheduled in the evening.

20083 INTRODUCTORY ASTRONOMY. Three hours lecture and laboratory assignments. Stars, galaxies, stellar evolution, and cosmology. Laboratory assignments may be scheduled in the evening.

GROUP III - Introductory Physics Courses for Science Majors

Credit will be given for only one of 10153, 20473 or for only one of 10163, 20483.

10153 GENERAL PHYSICS I. *Prerequisites: High school algebra and trigonometry or MATH 10053 and MATH 10052 or approval of instructor.* Part of a two-semester survey of general physics recommended for students in the life sciences and premedical program. Topics covered in the sequence will include mechanics of solids and fluids, thermodynamics, sound and wave motion, optics, electricity and magnetism, atomic and nuclear physics. Emphasis will be given to the application of these concepts to problems in the life and health sciences.

10151 GENERAL PHYSICS I LABORATORY. Three hours laboratory. *Prerequisite: PHYS 10153, which is normally taken concurrently.* Part one of a two semester sequence recommended for students enrolled in PHYS 10153. The sequence consists of selected experiments associated with PHYS 10153 and 10163.

10163 GENERAL PHYSICS II. *Prerequisite: PHYS 10153.* Continuation of Physics 10153.

10161 GENERAL PHYSICS II LABORATORY. Three hours laboratory. *Prerequisite: PHYS 10163, which is normally taken concurrently.*

20473 PHYSICS I MECHANICS. *Prerequisites: MATH 10524 which may be taken concurrently or permission of the instructor.* The first of a three-semester survey recommended for students majoring in the physical sciences. Newton's laws of motion, the conservation of momentum, angular momentum, and energy; and the theory of gravitation.

20471 PHYSICS I LABORATORY. Three hours laboratory. *Prerequisite: PHYS 20473, which is normally taken concurrently.* A sequence of experiments selected to reinforce the concepts of Physics I.

20483 PHYSICS II ELECTROMAGNETISM AND OPTICS. *Prerequisites: PHYS 20473 and MATH 20524 which is normally taken concurrently or permission of instructor.* The second of a three-semester sequence recommended for students of physical sciences. Electric charge, current and field; magnetism, time varying electromagnetic fields; physical and geometric optics.

20481 PHYSICS II LABORATORY. Three hours laboratory. *Prerequisite: PHYS 20483, which is normally taken concurrently.* Selected experiments that demonstrate the Concepts of Physics II.

30493 PHYSICS III MODERN PHYSICS. *Prerequisites: PHYS 20473 and 20483 or 10153 and 10163, MATH 20524.* Relativity, introduction to quantum mechanics, atomic structure, nuclear physics, and modern physics.

30491 PHYSICS III LABORATORY. Three hours laboratory. *Prerequisite: PHYS 30493, which may be taken concurrently.* Selected topics in modern physics.

GROUP IV - Advanced Undergraduate Physics and Astronomy Courses.

30003 JUNIOR HONORS RESEARCH IN PHYSICS OR ASTRONOMY. *Prerequisites: Admission to Honors Program and junior standing in Physics or Astronomy.* The first of two courses required for Honors in Physics or Astronomy in which the candidate will carry out a program of research under the direction of a faculty member. The results of this research must be satisfactorily communicated to the department in an oral presentation and/or a written report.

30013 MATERIAL SCIENCES (ENGR 30013) *Prerequisite: CHEM 10113.* Introduction to the structure and properties of metals, polymers, and ceramics. Crystal structure. Phase equilibria. Microstructures. Deformation and fracture. Polymers and composites. Electrical conductors. Magnetic properties. Dielectric properties.

30111 EXPERIMENTAL ASTRONOMY. *Prerequisites: PHYS 20073 and 20083, 10153, 10163.* Selected experiments in telescope properties and resolution, astrophotography, spectroscopy, planetarium studies, geometrical optics, physical optics, atomic physics, and studies of experimental data available in research journals.

30113 INTERMEDIATE ASTRONOMY. *Prerequisites: PHYS 20073 and 20083 or 20013 and 20023, PHYS 20473 and 20483 or 10153 and 10163.* Physical properties of planets, stars, and galaxies.

30553 MECHANICS. *Prerequisites: PHYS 20473 and MATH 30524 or permission of instructor.* Particle motion in one and three dimensions including oscillatory motion and motion under a central force. Dynamics of many particle systems. Lagrange's and Hamilton's equations.

30603 THERMAL PHYSICS. *Prerequisite: PHYS 30493, MATH 30524 or permission of instructor.* Statistical formulation of the laws and applications of thermodynamics.

30703 DIGITAL ELECTRONICS. *Prerequisites: First year physics, MATH 10524, COSC 10403.* An introduction to DC and AC circuits, diodes, transistors, amplifier circuits, basic digital circuits, logic circuits, digital readouts, counters, timing circuits, AD converters, microprocessors, and microcomputers.

40003 SENIOR HONORS RESEARCH IN PHYSICS OR ASTRONOMY. *Prerequisites: Admission to Honors Program and senior standing in Physics or Astronomy.* A candidate for honors in Physics or Astronomy will carry out a program of research under the direct supervision of a faculty member. The results of the research must be presented in the form of an acceptable paper.

40050 THE TEACHING OF PHYSICS. *Prerequisite: 14 semester hours, 3 of which may be taken concurrently.* Members of this class serve one day each week as physics laboratory assistants and share in departmental conferences. (1 1/2 - 3 sem. hrs.)

40103 SENIOR RESEARCH IN PHYSICS OR ASTRONOMY. *Prerequisites: Senior Standing in Physics or*

Astronomy. The student will carry out a program of research under the direction of a faculty member. The results of the research will be presented in the form of an acceptable paper.

40113 ELEMENTS OF QUANTUM MECHANICS. *Prerequisites: PHYS 30493 and MATH 30524 or permission of instructor.* The Schrödinger equations, operators, stationary states; Quantum theory of angular momentum; the harmonic oscillator and the hydrogen atom; quantum spin formulation.

40653 ELECTROMAGNETIC FIELDS. *Prerequisites: PHYS 20483 and MATH 30524 or permission of instructor.* Electric and magnetic fields, potential; dielectrics; relativity applied to electricity and magnetism; development of Maxwell's Equations in covariant form.

40663 ELECTROMAGNETIC RADIATION AND OPTICS. *Prerequisite: PHYS 40653.* Electromagnetic radiation in free space and in materials; introduction to nonlinear optics.

50030 SEMINAR IN CONTEMPORARY PHYSICS. *Prerequisite: Permission of instructor.* Students enrolled will be expected to participate in, prepare, and lead discussions on selected topics in physics as suggested by the current journal literature. (1-4 sem. hrs.)

50703 NONLINEAR DYNAMICS. *Prerequisites: Permission of instructor, PHYS 30553 is recommended.* Characterization of Chaos, Routes to Chaos, Dissipative Dynamical Systems, Hamiltonian Systems.

50713 CONTEMPORARY TOPICS IN PHYSICS. *Prerequisite: Departmental permission.* Regularly scheduled course on subjects of interest to students and faculty. Possible topics may include but are not limited to: Atomic and molecular physics, Atom optics, Biophysics, Mathematical physics and High-energy nuclear physics.

50723 INTRODUCTION TO SOLID STATE PHYSICS. *Prerequisite: PHYS 30493; MATH 30524.* Crystal structure, lattice dynamics, free electron theory, band theory, optical, electric and magnetic properties of solids.

50733 COMPUTATIONAL PHYSICS. *Prerequisites: PHYS 20483 and MATH 30524.* Computational methods used in physics, systems of linear equations, eigenvalues problems, numerical solution of differential equations using different computing environments.

50743 ASTROPHYSICS. *Prerequisite: Departmental permission.* The distance scale, applications of dynamics, statistical mechanics, relativity and quantum theory to astrophysical phenomena, theory of stellar structure, and evolutionary processes in the interstellar medium, and selected topics in cosmology.

50970 SPECIAL PROBLEMS IN PHYSICS. *Prerequisite: Departmental permission.* Advanced work in physics the nature of which is to be determined by the previous preparation and interest of the individual. Credit will depend upon the nature of the study and the amount of work taken. (1-12 hrs.)

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Pre-Health Professions

[General requirements](#)
[General suggestions](#)
[Health Care Ethics Minor](#)
[Alpha Epsilon Delta](#)
[Scholarships](#)

TCU offers a curriculum to prepare students for admission to programs leading to doctoral degrees in the following health professions: Dentistry (D.D.S.), Allopathic Medicine (M.D.), Optometry (O.D.), Osteopathic Medicine (D.O.), Podiatric Medicine (D.P.M.), and Veterinary Medicine (D.V.M.).

The Pre-Health Professions program also offers advising services to students interested in other health fields (e.g., physical therapy, occupational therapy).

Health Professions Advisory Committee (HPAC) consists of faculty members who teach courses normally taken by students pursuing the above professional goals and presently includes Professors Tim Barth, Psychology; Doug Ingram, Physics; David Minter, Chemistry; Andrew Paquet, Biology; and Phil Hartman, Biology, Chairman. Ruth Eakin, the administrative assistant to the program, is housed in SWR M16.

The duties of the committee are to advise students on their curriculum, to provide counseling regarding the health professions, and to evaluate, both for the student and for the professional schools, the student's suitability for entering the profession. The committee offers "mock" interviews and will write a committee-based letter of evaluation for those students who submit the appropriate biographical materials.

Curriculum: Health profession schools prefer applicants who have completed a four-year curriculum leading to a B.A. or B.S. degree. Generally, no particular majors are preferred although certain courses are required or suggested as described below. Students uncertain as to their prospective major should start out in the curriculum for the combination B.S. degree (see below).

Required and Suggested Courses: Although each professional program has its own list of required and suggested courses, those shown below will meet the requirements of the vast majority. Students should check the current requirements of schools to which they intend to apply before they begin their junior year at TCU to insure that new or unusual requirements can be met before graduation.

Pass/No Credit Option. Courses required by professional schools for admission should not be taken on the Pass/No Credit basis.

General Requirements:

Biology: 10504, 10514
Chemistry: 10113, 10123, 10122 (or 10114 and 10124), 30123, 30122, 30133
Math: 10052, 10053 (if not completed in high school)
Physics: 10153, 10151, 10163, 10161
Other: University Curriculum Requirements and requirements of the major/minor

GENERAL SUGGESTIONS

Humanities: ENGL 30223, SPAN 10153, PHIL 10003, 30313, 30363, RELI 30723, NURS 40303
Social Sciences: HIST 40803, SOCI 40523, 40533, SOWO 30853, 30863
Natural Sciences: BIOL 30303, 30404, 30603, 40123, 40133, 40203, 40223, 40404; CHEM 40164, 50133, 50143; MATH 10043; COSC 10403, PSYC 10213, 30463; NURS 30353
Other: NTDT 10403, SPCO 10343, 30153; KINE 10603, 30623, 30633; HLTH 40203; COSD 10303, 10343, 30303; NURS 30603

Additional Pre-dental Courses

Required: Two advanced Biology courses as listed under General Suggestions with BIOL 30303, 40123, 40133, 40503 and 50133 especially recommended.

Suggested: ART 10133, 20243

Additional Pre-medical Courses

Required: Biology (same as pre-dental), MATH 10524, CHEM 30132
Suggested: None

Additional Pre-optometry Courses

Required: BIOL 20204-20214 or 30404, 30303, 40404; MATH 10524; PSYC 10213, 30503; CHEM 50133
Suggested: None

Additional Pre-pharmacy Courses

Required: BIOL 30303, 30404; MATH 10524 and 10043.

Additional Pre-podiatric Courses

Required: Same as premed.

Additional Pre-veterinary Courses

Required: BIOL 30303, 30603, 40123, 40253, 50133; MATH 10524; ENGL one literature course plus 30223 (or SPCO 20103); RAMA 30703.
Suggested: MATH 10043

Aptitude Tests: Most professional schools require aptitude tests to have been taken *at the time of application*. Generally, these should be taken 15-17 months before contemplated admission; *i.e.*, in the spring of the junior year for 4-year students or in the sophomore year for 3-year students (see below). Information on these exams is available in the Pre-Health Professions office SWR-M16: The Dental Aptitude Test (DAT), the Medical College Aptitude Test (MCAT), the Optometry Aptitude Test (OAT).

Health Care Ethics Minor

(See Health Care Ethics)

Combination B.S. Degree Program (The "Three-Year Program")

A few highly qualified pre-health professions students may be accepted by the professional school after the completion of a three-year college curriculum. TCU offers the B.S. combination degree program for these students. The student must complete a minimum of 94 semester hours including the prescribed courses, the UCR, and aptitude tests listed above. The last 45 hours of the 94 must be taken at TCU. The B.S. combination degree will be awarded after successful completion of the first year of professional school. Students uncertain as to their plans or major should start out in this program. Students must declare their interest in this program (*i.e.*, file a degree plan) prior to application to a professional school. A typical curriculum that meets all these requirements is outlined below.

Typical Combination B.S. Degree Program for Pre-Health Professions Students 1

semester hours

FRESHMAN YEAR

BIOL 10504, 10514	8
CHEM 10113,10123,10122	8
Writing Workshop, other UCR	6
MATH 10052**, 10053 and 10524	7-9
Physical Education or ROTC	2
total	31-33

SOPHOMORE YEAR

BIOL 30603	3
CHEM 30123, 30122, 30133, 30132	10
PHYS 10151, 10153, 10161, 10163	8
UCR	2*
total	33

APTITUDE TEST should be taken at this point

JUNIOR YEAR

BIOL	7-9*
UCR	15*
Electives or Additional Requirements	6-9*
Total	29-32

* See Required and Suggested courses for permissible variations and other specific courses.

**Students who have had trigonometry and coordinate geometry in high school may go directly into MATH 10524 if required by chosen field.

Alpha Epsilon Delta. The program sponsors the Texas Zeta Chapter of Alpha Epsilon Delta, the national honor society for pre-professional health science students.

Scholarships. The M.D. Anderson Foundation of Houston sponsors several scholarships for pre-health profession students who are at least sophomores, have a GPA above 3.0, are in the top third of their class, have a record of service to TCU, the community, or the profession, and have demonstrated a high motivation toward a career in medicine and dentistry. Applications are available from the Financial Aid Office with June 15 and December 15 deadlines.



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Psychology

[The B.S. degree with a major in Psychology.](#)

[Minor in Psychology.](#)

[Honors in Psychology.](#)

[Outreach Program.](#)

[Courses of Instruction](#)

(PSYC)

Available as a major on the B.A. and B.S. degree and as a minor on the B.A. and B.S. degree.

Although the programs may be used to achieve a variety of objectives, they are designed with three primary goals in mind: (1) to provide majors with a strong background for graduate or professional training in psychology or related fields, (2) to educate intelligent consumers who can seek, evaluate and apply selected psychological services effectively, and (3) to provide fundamental information for a critical understanding of psychological knowledge and problems.

In addition to basic coursework, the programs offer learning experiences that include research projects, individual career planning, special seminars, and supervised off-campus activities. Such courses, primarily for juniors and seniors, require approval from the students' adviser or the instructor during the semester prior to the one in which the student intends to enroll. Students are encouraged to consult with their academic adviser at least once each semester to plan an appropriate selection of courses to meet their individual goals. Further information regarding the psychology curriculum may be obtained from the chairman of the department.

The B.S. degree with a major in Psychology. Recommended for students planning graduate work in Psychology or a related field or who anticipate a career in a psychology-related field. **Requirements in Psychology.** A minimum of 42 hours including either 10213, 10514, or 10524, plus 30503 and 40993. At least one course must be taken from each of the following five areas, plus at least one additional course from A,B,C, or D.

Area A: 30463, 30483, 50513;

Area B: 30433*, 30473*, 30414*

Area C: 30453*, 30423*, 40433*

Area D: 30443, 40493*, 30353 or 30343*

Area E: 30363, 30373, 40463

[* = courses that require MATH10043 (Elementary Statistics) and PSYC30503 (Behavioral Research) as prerequisites]. A maximum of 6 hours of 40960 and/or 40970 may be applied to the 42 minimum required hours in psychology, but additional hours may be taken as psychology electives.

Associated Requirements. MATH 10043 plus one of the following: Option 1: A second major of at least 24 hours. Option 2: A minor in another field of at least 18 hours. Option 3: The Combined Science Minor. The total number of hours required for the B.S. degree is 124.

Suggested Plan for Completion of the B.S. Degree in Psychology:

Year 1: Principles of Behavior or General Psychology, plus Elementary Statistics

Year 2: Behavioral Research, plus courses in Areas A-E

Year 3: Courses in Areas A-E, additional Psychology courses

Year 4: Senior Seminar, Courses in Areas A-E, additional Psychology courses

The B.A. degree with a major in Psychology. This degree is suited for students who have a general interest in psychology but do not plan a career in psychology or a psychology-related field. It may prove suitable for a variety of career objectives not subsumed under the B.S. program. **Requirements in Psychology.** A minimum of 30 hours including either 10213, 10514, or 10524, plus 30503 and 40993. At least one course must be taken from each of the five areas listed in Areas A-E under the B.S. degree requirements. A maximum of 6 hours of 40960 and/or 40970 may be applied to the 30 minimum required hours in psychology, but additional hours may be taken as psychology electives.

Associated Requirements: Same as for B.S. degree. The total number of hours required for the B.A. degree is 124.

Requirements for a minor in Psychology. A minor in psychology requires 18 hours in psychology, including either 10213, 10514, or 10524. A maximum of 3 hours of 40960 and/or 40970 may be applied to the minor in psychology.

Area of Specialization for Secondary Certification in Psychology. Required: 10213, 10514, or 10524, plus 30503. Also, select enough from the courses listed in Areas A-E under the B.S. degree requirements to make a total of at least 24 semester hours.

Honors in Psychology. A student wishing to complete Departmental Honors in Psychology must be enrolled in the Honors Program and complete 30003 and 40003. It is recommended that students enroll in 40003 for the fall semester of the senior year.

Outreach Program. The Outreach Program is designed to afford qualified students the opportunity to participate in psychology-related internships in local community settings. The program has two purposes:

1. The major goal of the Outreach Program is to increase student awareness of professional psychology by allowing students to engage in activities similar to those of a counseling or clinical psychologist. Many psychology majors are interested in becoming helping professionals, and it is our belief that these students can make more informed decisions about their careers if they have experienced these professional activities first hand.
2. A second goal of the Outreach Program is to help students to build their resumes through professionally-related internship experiences. In this way they can not only include the field work experience on their resumes, but they also have the opportunity to earn letters of recommendation from off-campus professionals.

Requirements. The Psychology Department's field work experience consists of a two semester sequence, Introduction to Field Work (PSYC 40453) taken in the fall semester, and Advanced Field Work (PSYC 40960) taken in the following spring semester.

Psi Chi. The department sponsors the TCU Chapter of Psi Chi, the national honor society for psychology.

Pass/No Credit Option. Pass/No Credit is acceptable for courses in the major and minor, if any.

The following is a complete list of courses offered by this department. Go to Class Search on Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

10110 TECHNIQUES OF COLLEGE LEARNING. The study of the skills and techniques necessary for efficient learning. Application of the principles of learning, cognition, and motivation to the problems of college learning. (1-3 sem. hrs.)

10213 GENERAL PSYCHOLOGY. One of the prerequisites for higher-level psychology courses. The science of psychology, integrating biological, social, cognitive, and learning influences on behavior; basic behavior processes and principles of human and infrahuman behavior. Credit cannot be given for both PSYC10213 and either 10514 or 10524.

10514 PRINCIPLES OF BEHAVIOR I. Recommended for B.S. in Psychology. An introduction to the scientific study of behavior. The nature of scientific inquiry of behavior and relevant behavioral processes will be discussed. Three hours lecture and two hours laboratory per week. Credit cannot be given for both PSYC10213 and 10514.

10524 PRINCIPLES OF BEHAVIOR II. Recommended for B.S. in Psychology. An introduction to the scientific study of behavior. The nature of scientific inquiry of behavior and relevant behavioral processes will be discussed. Three hours lecture and two hours laboratory per week. Credit cannot be given for both PSYC10213 and 10524.

20553 PSYCHOLOGY OF ADJUSTMENT. Basic principles of psychology in relation to the development, assessment, and modification of personality adjustment. Emphasizes patterns of normal adjustment (intra- and interpersonal) to typical contemporary environments.

30003 HONORS TUTORIAL. *Prerequisite: Junior standing and membership in the Honors Program.* An examination of a major issue in psychology. This course is only offered as a tutorial and the specific topic is determined by consultation with an instructor. Arrangements for this course must be made with an instructor the semester prior to enrollment.

30113 STATES OF CONSCIOUSNESS. *Prerequisite: PSYC 10213, 10514, or 10524.* An overview of contemporary knowledge about various states of consciousness including both theoretical perspectives and contemporary applications.

30121 INTRODUCTION TO MENTAL RETARDATION. *Prerequisite: PSYC 10213, 10514, or 10524 or approval of instructor.* An introduction to mental retardation, behavioral problems which accompany it, possible causes, and the controversy surrounding placement of retarded in the community.

30133 PARAPSYCHOLOGY: SCIENCE OR PSEUDOSCIENCE? *Prerequisite: PSYC 10213, 10514 or 10524, or approval of instructor.* The nature of scientific theories and their application to the claims of paranormal events. The emphasis is on a skeptical analysis of such reputed phenomena as extra sensory perception, psychokinesis, clairvoyance, and precognition. Alternative explanations of claims of the paranormal using established scientific principles, laws and theories of behavior are examined.

30263 PROBLEM SOLVING IN TASK ORIENTED GROUPS. Two hours lecture and three hours lab. *Prerequisite: PSYC 10213, 10514, 10524 or approval of instructor.* Instruction and practice in the elements of effective participation in task oriented groups and in the strategies and techniques of systematic problem solving. Topics in group processes include group membership roles, task oriented roles, leadership roles, group norms, competition, and conflict management. Topics in problem solving include problem definition, brainstorming, means-end analysis,

and structured decision making.

30323 CHILD PSYCHOLOGY. *Prerequisite: PSYC 10213, 10514, or 10524.* Human behavior from conception to adolescence; the influences of heredity and maturation, physical, social and cognitive development, with child observations.

30333 SEXUAL BEHAVIOR IN HUMANS AND OTHER ANIMALS. *Prerequisites: PSYC 10213, 10514, or 10524 or approval of instructor.* Emphasis on empirical studies of sexuality, encompassing its varied manifestations, its many determinants, and contemporary theories of sexuality, with an emphasis on evolutionary theory. Bodily mechanisms and their development, sexually transmitted diseases, and aspects of reproduction are also covered.

30343 SOCIAL PSYCHOLOGY(writing emphasis). *Prerequisites: 30503.* See 30353 for a description. Credit cannot be given for both PSYC 30343 and PSYC 30353.

30353 SOCIAL PSYCHOLOGY. *Prerequisite: PSYC 10213, 10514, or 10524.* Methods and principles related to the experience and behavior of individuals in interaction with each other, in group situations, and in relation to items in the sociocultural setting. Credit cannot be given for both PSYC 30343 and PSYC 30353.

30363 ABNORMAL PSYCHOLOGY. *Prerequisite: PSYC 10213, 10514, or 10524.* Personality and behavior processes in normal and deviant personalities; variations and causes of psychopathology, problems of classification, diagnosis and management.

30373 ORGANIZATIONAL PSYCHOLOGY. *Prerequisite: 10213, 10514, or 10524, or approval of instructor.* Analysis of methods, accumulated knowledge, and systematic approaches to problems of group behavior in organizations including personnel management, selection, training, motivation, performance appraisal, leadership, working conditions, and human engineering.

30383 SPORT PSYCHOLOGY: PERFORMANCE ENHANCEMENT TECHNIQUES. *Prerequisites: PSYC 10213, 10514, or 10524.* Introduction to theories and methods of applied sport psychology or performance enhancement. Develops the conceptual basis for the psychological techniques used by sport psychologists, examines empirical evidence for effectiveness of these methods, and elaborates the significance of sports as a metaphor for other life situations where performance is important.

30403 THE HUMAN SENSES. *Prerequisites: 30503* A survey of the structure and function of sensory systems, with particular emphasis on vision and hearing.

30414 EXPERIMENTAL PSYCHOLOGY: LEARNING. Three lectures and one laboratory per week. *Prerequisite: 30503.* Basic methods and concepts employed in the study of learning.

30423 EXPERIMENTAL PSYCHOLOGY; PERCEPTION. Two lectures and one laboratory period per week. *Prerequisite: 30503.* Basic experimental techniques employed in the study of detection, discrimination and recognition.

30433 EXPERIMENTAL PSYCHOLOGY: MOTIVATION. *Prerequisite: 30503.* Basic concepts, THEORIES, and techniques employed in the study of motivation.

30443 PSYCHOLOGY OF PERSONALITY. *Prerequisite: 10213, 10514, or 10524, or approval of instructor.* The factual and theoretical status of the development, structure, and dynamic functioning of the adult personality.

30453 MEMORY AND COGNITION. *Prerequisite: 30503.* An overview of major issues and topics in modern cognitive psychology with particular emphasis on interpreting basic research in memory and cognitive processes.

30463 PHYSIOLOGICAL PSYCHOLOGY. *Prerequisite: 10213, 10514, 10524 or approval of instructor.* Study of the nervous system, action systems and sensory systems to provide background for examining the physiological bases of discrimination, motivation, emotions, and learning. (Also offered as Biology 30463).

30473 COMPARATIVE PSYCHOLOGY. *Prerequisites: PSYC 30503.* Provides knowledge of animal behavior as a field of research based on mechanistic and evolutionary approaches. Provides a basic vocabulary and a conceptual framework which enables the student to appreciate the importance and scope of animal behavior as an interdisciplinary field and to identify areas of interest for further study.

30483 NEUROPSYCHOLOGY. *Prerequisites: PSYC 10213, 10514, 10524, or approval of instructor.* Presents an approach to the study of human brain function by examining the behavioral syndromes resulting from neurological disease and brain damage. Topics will include an overview of the nervous system; neuropsychological assessment; cortical dysfunction; language disorders; developmental neuropsychology; and recovery of function following brain trauma.

30493 EVOLUTIONARY PSYCHOLOGY. *Prerequisites: PSYC 10213 or PSYC 10514.* A comprehensive view of human evolution. Topics include the fossil record, primates and hominids, evidence of the effects of natural selection on human anatomy and behavior, the development of human culture, mating patterns, technology, social structures, emergence of art and civilization and the evolutionary shaping of perceptual, cognitive and motivational processes.

30503 BEHAVIORAL RESEARCH. *Prerequisite: 10213, 10514, or 10524, plus Math 10043.* Basic elements of behavioral research-planning, execution, analysis, and interpretation. Includes selection of research problems, measurement of behavioral constructs, development of instruments, and experimental and non-experimental designs as well as the basic statistical methods and concepts needed in behavioral research.

30603 HISTORICAL FOUNDATIONS OF MODERN PSYCHOLOGY. *Prerequisite: PSYC 10213, 10514, or 10524*

or approval of instructor. The roots of modern psychology and the development of the schools of psychology will be discussed. The historical developments in science and philosophy that were the determinants of the founding of psychology will be analyzed.

30993 PSYCHOLOGY OF SEX, VIOLENCE, AND AGGRESSION. Teaches students how to think critically about psychological research on sex, violence, and aggression. The course goal is to educate intelligent consumers of media information and misinformation, teaching them to separate scientifically valid from invalid claims that such factors as genetics, biochemistry, socialization practices, sex differences, ambient temperature, alcohol, television, movies, and video games affect interpersonal violence and aggression.

40003 SENIOR HONORS RESEARCH PAPER. *Prerequisite: PSYC 30003, Senior standing, and membership in the Honors Program.* A supervised research experience and a thesis that is usually based on the subject matter studied in 30003. This course is offered only as a tutorial. Arrangements for this course must be made with an instructor the semester prior to enrollment. It is recommended that enrollment occur the fall semester of the senior year.

40123 ENVIRONMENTAL PSYCHOLOGY. *Prerequisite: 10213, 10514, or 10524, and 30503, or approval of instructor.* This course examines, from the perspective of a psychologist, how the physical environment influences specific types of human behavior including work, recreation, learning, group interaction, crime prevention and others.

40403 PSYCHOLOGY OF COUNSELING. *Prerequisite: 10213, 10514, 10524, or approval of instructor.* Counseling in institutional, educational, and community settings; roles and functions of counselors; the relations of the counselor in different settings with clients and organizations.

40413 COGNITIVE DEVELOPMENT. *Prerequisite: 30323, 30503, 30453, or approval of instructor.* Major periods of cognitive development including infancy, early childhood, middle childhood, and adolescence; development of cognitive skills such as reasoning, problem solving, memory, language, and perception; acquisition of applied cognitive skills such as arithmetic, reading, writing, and physics.

40433 DEVELOPMENTAL PSYCHOLOGY. *Prerequisite: PSYC 30503.* Data and research methods related to the development of the human organism from its prenatal origins through old age.

40453 INTRODUCTORY FIELD EXPERIENCE IN PSYCHOLOGY. *Prerequisite: Fifteen semester hours in Psychology.* Introduction to Field Work will normally require the following: (a) participation in a seminar that meets once per week for one hour, (b) successful completion of a training program offered by the off-campus organization, and (c) a 6-8 hour per week commitment to the off-campus organization once training is completed.

40463 BEHAVIORAL MODIFICATION. *Prerequisite: PSYC 30503.* An introduction to the principles and practices of behavior modification and behavior therapy. Emphasis is on applications in education and in problems of children and institutionalized adults.

40473 PSYCHOLOGY OF WOMEN AND MEN. *Prerequisite: Junior or senior standing.* This course is designed to be an overview of theory and research on contemporary American concepts of femininity and masculinity, the implications of these definitions for the average woman or man and some alternative interpretations of the meaning of one's sex role identity.

40483 SEMINAR IN THE BIOLOGICAL MECHANISMS OF BEHAVIOR. *Prerequisite: PSYC 30463 or its equivalent, or approval of instructor.* A topic seminar with an emphasis on developing an understanding of the interaction of the biological, genetic, psychological, and social factors that underlie the development of behavior.

40493 INTRODUCTION TO PSYCHOLOGICAL MEASUREMENT. *Prerequisite: PSYC 30503.* Characteristics of tests and measurement scales; survey of individual and group tests in psychology, education, and clinical settings.

40773 COMMUNITY PSYCHOLOGY. *Prerequisite: 10213, 10514, 10524, or approval of instructor.* An introduction to the theory and practice of the community health movement. Includes theories of community health.

40950 CONTEMPORARY TOPICS IN PSYCHOLOGY. *Prerequisite: 10213, 10514, 10524, or approval of instructor.* Topics of current interest in psychology or society. (1-6 sem. hrs.)

40960 ADVANCED FIELD WORK. Advanced Field Work will normally require (a) successful completion of Introduction to Field Work (PSYC 40453), and (b) a 10-12 hour per week commitment to the off-campus organization.

40970 INDEPENDENT STUDIES. *Prerequisites: Twelve semester hours in Psychology and departmental approval.* Supervised research or study in specialized areas not covered in regular course offerings. (1-6 sem. hrs.)

40993 SENIOR SEMINAR IN PSYCHOLOGY. *Prerequisite: 30503 and senior standing in Psychology.* Teaches students how to think critically about ethics and research topics in psychology. Excellent preparation for the Graduate Record Examination in psychology and for graduate school in all areas of psychology. In depth coverage of such topics as Ethics and Methods of Psychology as a Scientific Discipline, Biopsychology, Perception, Learning, Motivation, Emotion Memory, Thinking, Intelligence, Language, Development, Personality, Psychological Disorders, Psychotherapy, and Social Psychology.

50213 DATA ANALYSIS. *Prerequisite: PSYC 30503.* Introduction to SPSS in application to research in the behavioral sciences, including use of SPSS functions for data analysis. Attention is also given to the use of univariate and multivariate methods of exploratory data analysis.

50303 MODERN EXPERIMENTAL PSYCHOLOGY. *Prerequisite: Senior or graduate standing and approval of*

instructor. Introduction to current topics in experimental psychology, particularly learning, motivation, perception, and the designs and statistics utilized in their study. Intended for nonpsychology students. Concurrent registration in PSYC 50311 is encouraged.

50311 LABORATORY IN MODERN EXPERIMENTAL PSYCHOLOGY. One laboratory period per week.

Prerequisite: Concurrent registration in PSYC 50303 or approval of the instructor. Theory and application of experimental design.

50403 ADVANCED PHYSIOLOGICAL PSYCHOLOGY. *Prerequisite:* Senior or graduate standing in Psychology and PSYC 30463 or approval of instructor. An in-depth analysis of the neural and endocrine components of normal and abnormal behavior with emphasis on the classic studies in the field.

50411 THEORETICAL FOUNDATIONS OF STATISTICAL INFERENCE. *Prerequisite:* Graduate standing in Psychology; *Ph.D. students must take concurrently with PSYC 50423.* Supplements PSYC 50423. Provides an in-depth view of the models and theories underlying analysis of variance, correlation and regression analysis, and the non-parametric techniques.

50413 HISTORY AND SYSTEMS OF PSYCHOLOGY. *Prerequisite:* Senior or graduate standing in Psychology, or approval of instructor. The scientific and philosophic antecedents of contemporary psychology in relation to their current influence on the field.

50423 GRADUATE STATISTICS. *Prerequisite:* Senior or Graduate standing or approval of instructor. The conceptual basis of statistical inference. Topics include: analysis of variance models, correlation and regression analysis, and non-parametric techniques.

50453 EXPERIMENTAL SOCIAL PSYCHOLOGY. Two lectures and one laboratory period per week. *Prerequisite:* Graduate standing in Psychology or approval of instructor. Concepts and methods of research on attitudes, communication and persuasion, group structure, and group processes.

50463 FUNDAMENTALS OF NEUROSCIENCE. *Prerequisite:* Senior or graduate standing, or approval of the instructor. Fundamentals of functional neuroanatomy and neurophysiology, with an emphasis on experimental and theoretical analysis of basic brain-behavior relationships. (Also offered as BIOL 50463.)

50472-50482 LABORATORY IN PHYSIOLOGICAL PSYCHOLOGY AND NEUROSCIENCE. *Prerequisite:* PSYC 30463 or its equivalent or PSYC 50653 or its equivalent, or concurrent registration in either PSYC 50463 or PSYC 30463. One lecture and one laboratory per week. Emphasis will be on the laboratory techniques employed in physiological psychology and neuroscience in analyzing the neural and hormonal correlates of behavior. (Also offered as BIOL 50472-50482.)

50483 SOCIAL STRUCTURE AND PERSONALITY. *Prerequisite:* Senior or graduate standing in Psychology, or approval of instructor. Influence of social systems on the development of personality; influence of personality on social structure; analysis of behavior as influenced by combined social and personality variables. (Same as SOCI 50483.)

50493 ADVANCED PERSONALITY. *Prerequisite:* PSYC 30443 or its equivalent or approval of instructor. Current topics from the empirical and theoretical literature on personality.

50513 PSYCHOPHARMACOLOGY. *Prerequisite:* PSYC 10213, 10514, 10524, or approval of instructor. Theory and principles of behavioral and biochemical methods of assaying drug action, with primary emphasis on the study of the effects of neuropharmacological agents or endogenous systems.

50523 EXPERIMENTAL DESIGN. *Prerequisite:* PSYC 50423, Graduate standing in Psychology, or approval of instructor. The planning and design of behavioral research including the specification of research problems, development of appropriate designs, the use of appropriate analytic techniques, and the interpretation of results.

50543 ADVANCED GENERAL PSYCHOLOGY. *Prerequisite:* Senior or graduate standing in Psychology, or approval of instructor. Review and integration of the field of general psychology for the student entering graduate training. Emphasis is on the logical and empirical bases of fundamental psychological concepts.

50563 DEVELOPMENTAL PSYCHOLOGY. *Prerequisite:* Senior or graduate standing in Psychology, or approval of instructor. Data and research methods related to the development of the human organism from its prenatal origins through old age.

50583 COGNITION. *Prerequisite:* Senior or graduate standing in Psychology, or approval of instructor. Current topics in the area of cognition including thinking, language, memory, decision making, and problem solving.

50591 PROBLEMS IN THE PHILOSOPHY OF PSYCHOLOGY I. *Prerequisite:* Senior or graduate standing in Psychology, or approval of instructor. Selected philosophical and methodological issues in psychology and their relation to the functioning of a psychologist. Discussions led by several faculty members.

50603 CONTEMPORARY LEARNING THEORY. *Prerequisite:* Senior or graduate standing in Psychology, or approval of instructor. Selected theoretical principles important for understanding complex behavior, and their recent extensions and application to human social behavior, autonomic and psychosomatic functioning, etc.

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Ranch Management Program

[Admission](#)[Courses of Instruction](#)[Evening Courses](#)

The Ranch Management Program requires one academic year (nine months) to complete. Students are provided intensive classroom instruction in basic management principles. The program of study includes courses in livestock production, natural resource conservation, forage production, accounting principles, marketing, personnel management and general management principles. Field work is coordinated with classroom study to demonstrate principles as they are applied in production situations.

Classes are presented in three-hour units to allow concentration of subject matter and to facilitate field work. Generally, class hours are from 9 a.m. to noon and 1 p.m. to 4 p.m. five days a week, although class hours may vary somewhat when field work requires additional time for travel. Basic vocational skills are taught that require physical mobility and manual dexterity. Field work includes five week-long trips and numerous shorter trips. No other courses may be taken during the year.

Admission

In addition to meeting academic enrollment criteria, applicants for the full-time program should have sufficient working experience in agriculture to understand the nature of the industry. Basic knowledge and experience with farming or ranching enterprises enables the student to obtain more value out of the course of study. Enrollment is limited. Selection to the class is made after each applicant completes application, including transcripts and personal interview. When all other considerations are equal, earlier applicants are given priority. Since 1956, students from 40 states and 22 other nations have studied ranching at TCU.

For information, applications or interviews, write to the director, *Ranch Management Program*, TCU Box 297420, Fort Worth, Texas 76129, or call (817) 257-7145.

Credit. The two-semester program leads to 34 semester hours of credit and a *Ranch Management Certificate*. The program is an entity in itself and not a part of other academic study.

The following is a complete list of courses offered by this department. Go to Class Search on the Registrar's Page to see which courses are being taught this semester.

Courses of Instruction

RM 30102 RANCH JOBS AND DEVELOPMENT. Methods of livestock identification, dehorning, castration, and controlling external parasites; the planning and construction of fences, corrals, and buildings to facilitate the handling of livestock.

RM 30213 RANCH BUSINESS MANAGEMENT. Business law as applied to the livestock producer, business organization, estate planning, labor relations, application of management principles to ranching.

RM 30403 SOIL AND WATER CONSERVATION. Soil formation and development; soil characteristics which affect productivity; soil erosion by wind and water; soil, water, and wildlife conservation and management practices; Soil and Water Conservation District and U.S.D.A. agency assistance; preparation of coordinated conservation plan.

RM 30703 ANIMAL NUTRITION AND FEEDING. Digestion and use of feeds for maintenance and production, selection of feeds for maintenance and production, selection of feeds based on composition and cost, ration formulation, feed processing and handling, dry lot feeding programs, supplemental feeding on pasture, possible limiting factors in feeding efficiency.

RM 40103 BEEF CATTLE PRODUCTION. Economics of beef production enterprises; selection by records and visual appraisal for economically important traits including reproduction, gainability, and carcass value; inheritance; systems of breeding; production programs; management practices

RM 40112 SHEEP AND GOAT PRODUCTION. Sheep breeds and crosses; selection for mutton and wool production; Angora goat selection; breeding; supplemental feeding; marketing of wool and mohair.

RM 40303 ANIMAL HEALTH MANAGEMENT. Anatomy and physiology of cattle, indications of health and disease, development of immunity, specific infectious and noninfectious diseases of cattle, control of internal and external parasites, toxicology, basic veterinary skills and equipment.

RM 40313 ANIMAL HEALTH AND REPRODUCTION. Reproduction in cattle including organs and functions, natural and artificial breeding management, calving management, examination of cows for pregnancy, evaluation of bulls for soundness and fertility, selection of horses for soundness, treatment for sickness and injury, horse breeding.

RM 40503 RANGE MANAGEMENT. Principles of plant growth and reproduction; economic characteristics and field identification of range plants; ecology of range plants and animals; management of rangeland for all its uses

including setting and adjusting stocking rates, distribution of grazing, grazing methods and supporting practices; preparation of ranch management plan.

RM 40603 RANCH RECORDS AND FINANCE. Basic records needed for management and income tax reports-records of income and expense, inventories, net worth statements, budgets, production records; term problem in which all records for a year's operation are recorded and financial statements are prepared; sources of credit for ranch operations.

RM 40803 MARKETING OF LIVESTOCK AND MEATS. Relation of production to marketing, trends in marketing and consumption, meat processing and distribution, U.S.D.A activities, market outlets and procedures, futures, seasonal and cyclical influences on prices, selection of time and place to market, handling and transportation of livestock to improve weighing conditions and minimize losses, merchandising purebred livestock.

RM 40903 FORAGE PRODUCTION AND USE. Characteristics and management of introduced pasture plants; combinations for extended grazing, seedbed preparation and planting; weed control, fertilization, irrigation, grazing management and harvest for hay, silage and seed.

RAMA 40970 Special Topics in Ranch Management. An independent directed study of current issues and topics concerning global agricultural resource management. Students will be exposed to various applied management practices and principles in a field trip environment comprised entirely of foreign and/or domestic travel. Emphasis will be placed on integral production agricultural resource management practices, and economically viable agricultural enterprises indigenous to the area studied.

Evening Courses in Ranch Management

The TCU *Ranch Management Program* is meeting the educational needs of the ranching community by presenting evening classes through the Texas Christian University Office of Extended Education. These courses are designed for ranchers, business and professional people as well as other students unable to attend the full-time *Ranch Management Program*. The full-time faculty members of the *Ranch Management Program* teach evening courses. Course materials are the same as the course material used for the day classes. Information from ranch studies is brought into the classroom even though extensive travel is not possible. In some instances, two courses from the regular program have been combined to provide a uniform format of three-semester hour's credits. One course will be offered each semester until the full cycle of courses has been completed. The class is presented in a three-hour lecture on Tuesday evening from 7:00 p.m. until 10:00 p.m. Upon successful completion of the seven courses the enrollee becomes a graduate of the *Evening Division of Ranch Management* and receives a certificate of completion.

Admission

Admission is through the TCU Office of Extended Education. For an application and other admission information contact the Office of Extended Education at 817-257-7130.

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General Information

TCU is a major teaching and research university with the person-centered environment that typifies private universities. While accomplishing its mission, "To educate individuals to think and act as ethical leaders and responsible citizens in the global community," the University provides a unique "TCU Experience," giving students an *uncommon balance* of at least four factors:

TCU offers the **strengths and choices of a major university tempered with the true humanity of a small college** and works to develop and nourish the individual talents of each student.

TCU is a **friendly, caring community**. The University's teacher-scholars conduct and publish research, but their primary focus is teaching and mentoring. Professional staff members strive to be national leaders in their fields of expertise. TCU students, too, are uncommon and impressive < well-rounded individuals with high potential for success and leadership.

TCU has a **special church relationship**. TCU is not a Bible college as people often think of that term. However, the University takes pride in its historic relationship with the Christian Church (Disciples of Christ), which has always stressed a broad interpretation and respect for faith traditions. TCU does not seek to impose a particular religious point of view, but challenges each student to consider what he or she believes.

TCU's emphasis on the development of the individual takes place in a **liberal arts-centered education that is global in the broadest sense of the word**. TCU is global in the way it develops curriculum, in the myriad opportunities it offers for study-abroad and in the way its faculty, staff and students think about the future and what will be required to build a just, ethical and productive world community.

The school that was to be TCU was born in the troubled years following the Civil War. In 1869, young brothers Addison and Randolph Clark began "holding classes" in the village of Fort Worth, from which cattle trails ranged northward. In 1873 they moved 40 miles away to establish AddRan Male and Female College at bucolic Thorp Spring. Inclusion of women in the title is arguable the first instance of coeducation in the Southwest.

After 20 years, the school affiliated with the Christian Churches of Texas and became "AddRan Christian College." Moved to Waco in 1895, the school changed its name in 1902 to Texas Christian University. Fire destroyed its main building in 1910, and the University returned to Fort Worth and opened in its present location in 1911. Its future was assured in 1923 with a gift by Mrs. Mary Couts Burnett. (See "Milestones of History" under "Resources" on the main page for other important events.)

With a controlled enrollment of about 7,500 students, TCU draws from 48 states and more than 70 countries. Of the 375 full-time faculty, 63 percent are tenured; the student:faculty ratio is about 15:1. The 260 acre campus, located only a few miles from downtown Fort Worth, houses about 3,000 students and offers a full range of activities and recreational facilities for students.

Comprised of seven academic divisions<AddRan College of Humanities and Social Sciences, M.J. Neeley School of Business, the College of Communication, the School of Education, the College of Fine Arts, the College of Health and Human Sciences and the College of Science and Engineering<the University is independent and self-governing.

International study and experiences are an important part of TCU; the University ranks among the top 15 doctoral granting institutions in the number of students studying abroad. There are summer programs in London, Edinburgh, Germany, Hungary, Japan, Mexico and France, as well as more than 40 foreign study programs.

In short, higher education may be a business to some, but at TCU, we consider it our mission:.

To educate individuals to think and act as ethical leaders and responsible citizens in the global community.

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Academic Calendar

[Spring Semester 2002](#)

[Summer Session 2002](#)

[Fall Semester 2002](#)

[Spring Semester 2003](#)

[Summer Session 2003](#)

Fall Semester 2001

August 20 through December 14

Residence halls opening	Sat., Aug. 18
Registration	Mon., Tues., Aug. 20-21
First classes meet, 8 a.m.	Wed., Aug. 22
Last day for late registration, changing or adding courses	Tues., Aug. 28
Labor Day recess	Mon., Sept. 3
Last day for semester-fee students (only) to drop below 12 hours and receive partial-tuition refund	Tues. Aug. 28
<i>Last day to withdraw from class and receive:</i>	
100% tuition refund	Tues., Aug. 28
75% tuition refund	Wed., Sept. 5
50% tuition refund	Wed., Sept. 12
25% tuition refund (No refunds after this date.)	Wed., Sept. 19
Last day for electing Pass/No Credit grading option	Wed., Sept. 19
<i>Mid-semester break:</i>	Thurs., Oct. 4
Classes recess, 10 p.m.	Mon., Oct. 8
Classes resume, 8 a.m.	
Mid-semester reports of unsatisfactory work to Registrar, 9 a.m.	Wed., Oct. 10
Last day students may withdraw from a class	Wed., Oct. 17
<i>Schedule advising for Spring Semester:</i>	Mon.-Fri., Nov. 5-9
	Mon.-Fri., Nov. 12-16
	Mon.-Fri., Nov. 12-16
<i>Advance registration for Spring Semester</i>	Mon.-Wed. -- , Nov. 19-21
	Mon.-Wed., -- Nov 26-28
<i>Thanksgiving recess:</i>	
Classes recess, 5 p.m.	Wed., Nov. 21
Classes resume, 8 a.m.	Mon., Nov. 26
Last day of classes	Wed., Dec. 5
Study days	Thur.-Fri., Dec. 6-7
Final examinations	Mon.-Fri., Dec. 10-14
Semester ends	Fri., Dec. 14
Baccalaureate and Commencement	Sat., Dec. 15
Residence halls close	Sat., Dec. 15

Spring Semester 2002

January 10 through May 10

Residence halls opening (tentative)	Wed., Jan. 9
Registration	Thur.-Fri., Jan. 10-11
First classes meet, 8 a.m.	Mon., Jan. 14
Last day for late registration, changing or adding courses	Fri., Jan. 18
Martin Luther King, Jr. Holiday	Mon., Jan. 21
Last day for semester-fee students (only) to drop below 12 hours and receive partial-tuition refund	Fri., Jan. 18
<i>Last day to withdraw from class and receive:</i>	

100% tuition refund	Fri., Jan. 18
75% tuition refund	Mon., Jan. 28
50% tuition refund	Mon., Feb. 4
25% tuition refund. (No refunds after this date.)	Mon., Feb. 11
Last day for electing Pass/No Credit grading option	Mon., Feb. 11
Mid-semester reports of unsatisfactory work to Registrar, 9 a.m.	Wed., Mar. 6
<i>Spring recess:</i>	
Classes recess, 10 p.m.	Fri., Mar. 8
Classes resume, 8 a.m.	Mon., Mar. 18
Last day students may withdraw from a class	Wed., Mar. 20
<i>Schedule advising for Summer Session and Fall Semester:</i>	Mon.-Thur., Mar. 25-Mar. 28
	Mon.-Fri., Apr. 1-5
	Mon.-Fri., Apr. 1-5
<i>Advance registration for Fall Semester:</i>	Mon.-Fri., Apr. 8-12
<i>Good Friday recess:</i>	
Classes recess, 10 p.m.	Thurs., Mar. 28
Classes resume, 8 a.m.	Mon., Apr. 1
Last day of classes	Wed., May 1
Study days	Thur.-Fri., May 2-3
Final examinations	Mon.-Fri., May 6-10
Baccalaureate and Commencement	Sat., May 11
Residence halls close	Sat., May 11

Summer Session 2002

Residence halls open
Registration for Three Weeks Term (Term I)
Classes begin
Late registration ends
<i>Last day to withdraw from class and receive:</i>
100% tuition refund
75% tuition refund
50% tuition refund
25% tuition refund (No refunds after this date.)
Last day for electing Pass/No Credit grading option
Last day students may withdraw from a class
Memorial Day Holiday
Last day of classes
Registration for Eight Weeks Term (IE)
Classes begin
Late registration ends
<i>Last day to withdraw and receive:</i>
100% tuition refund
75% tuition refund
50% tuition refund
25% tuition refund (No refunds after this date.)
Last day for electing Pass/No Credit grading option
Memorial Day Holiday
Last day a student may withdraw from a class
Fourth of July Holiday
Last day of classes
Registration for First Five Weeks Term (Term II)
Classes begin

May 13 through August 9

Sun., May 12
Mon., May 13
Mon., May 13
Tues., May 14
Tues., May 14
Weds., May 15
Thur., May 16
Fri., May 17
Fri., May 17
Wed., May 22
Mon., May 27
Fri., May 31
Mon., May 13
Mon., May 13
Tues., May 14
Fri., May 17
Mon., May 20
Tues., May 21
Wed., May 22
Wed., May 22
Mon., May 27
Fri., June 7
Thur., July 4
Fri., July 5
Mon., June 3
Mon., June 3

Late registration ends	Tues., June 4
<i>Last day to withdraw and receive:</i>	
100% tuition refund	Tues., June 4
75% tuition refund	Wed., June 5
50% tuition refund	Thur., June 6
25% tuition refund (No refunds after this date)	Fri., June 7
Last day for electing Pass/No Credit	Fri., June 7
Last day students may withdraw from a class	Wed., June 19
Fourth of July Holiday	Thur., July 4
Last day of classes	Fri., July 5
Registration for Second Five Weeks Term (Term III)	Mon., July 8
Classes begin	Mon., July 8
Late registration ends	Tues., July 9
<i>Last day to withdraw from class and receive:</i>	
100% tuition refund	Tues., July 9
75% tuition refund	Wed., July 10
50% tuition refund	Thur., July 11
25% tuition refund (No refunds after this date)	Fri., July 12
Last day for electing Pass/No Credit grading option	Fri., July 12
Last day students may withdraw from a class	Wed., July 24
Last day of classes	Fri., Aug. 9
Residence halls close	Sat., Aug. 10

Fall Semester 2002

August 26 through December 20

Residence halls opening (tentative)	Sat., Aug. 24
Registration	Mon.-Tues., Aug. 26-27
First classes meet, 8 a.m.	Wed., Aug. 28
Labor Day recess	Mon., Sept. 2
Last day for late registration, changing or adding courses	Wed., Sept. 4
Last day for semester-fee students (only) to drop below 12 hours and receive partial-tuition refund	Wed., Sept. 4
<i>Last day to withdraw from class and receive:</i>	
100% tuition refund	Wed., Sept. 4
75% tuition refund	Wed., Sept. 11
50% tuition refund	Wed., Sept. 18
25% tuition refund (No refunds after this date.)	Wed., Sept. 25
Last day for electing Pass/No Credit grading option	Wed., Sept. 25
<i>Mid-semester break:</i>	
Classes recess, 10 p.m.	Thurs., Oct. 10
Classes resume, 8 a.m.	Mon., Oct. 14
Mid-semester reports of unsatisfactory work to Registrar, 9 a.m.	Wed., Oct. 16
Last day students may withdraw from a class	Wed., Oct. 23
<i>Schedule advising for Spring Semester</i>	Mon.-Fri., Nov. 11-15
	Mon.-Fri., Nov. 18-22
<i>Advance registration for Spring Semester</i>	Mon.-Fri., Nov. 18-22
	Mon.-Wed., Nov. 25-27
	Mon.-Wed., Dec. 2-4
<i>Thanksgiving recess:</i>	
Classes recess, 5 p.m.	Wed., Nov. 27
Classes resume, 8 a.m.	Mon., Dec. 2
Last day of classes	Wed., Dec. 11
Study days	Thur.-Fri., Dec. 12-13

Final examinations	Mon.-Fri., Dec. 16-20
Semester ends	Fri., Dec. 20
Baccalaureate and Commencement	Sat., Dec. 21
Residence halls close	Sat., Dec. 21

Spring Semester 2003

Residence halls opening (tentative)	Wed., Jan. 8
Registration	Thur.-Fri., Jan. 9-10
First classes meet, 8 a.m.	Mon., Jan. 13
Last day for late registration, changing or adding courses	Fri., Jan. 17
Martin Luther King, Jr., Holiday	Mon., Jan. 20
Last day for semester-fee students (only) to drop below 12 hours and receive partial-tuition refund	Fri., Jan. 17

Last day to withdraw from class and receive:

100% tuition refund	Fri., Jan. 17
75% tuition refund	Mon., Jan 27
50% tuition refund	Mon., Feb. 3
25% tuition refund (No refunds after this date.)	Mon., Feb. 10

Last day for electing Pass/No Credit grading option	Mon., Feb. 10
Mid-semester reports of unsatisfactory work to Registrar, 9 a.m.	Wed., Mar. 5

Spring recess:

Classes recess, 10 p.m.	Fri., Mar. 7
Classes resume, 8 a.m.	Mon., Mar. 17

Last day students may withdraw from a class	Wed., Mar. 19
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Schedule advising for Summer 2003 Session and Fall 2003 Semester

	Mon.-Fri., -- Mar. 24-28
	Mon.-Fri., -- Mar. 31-Apr. 4
	Mon.-Fri., Mar. 31-Apr. 4
	Mon.-Fri., Apr. 7-11

Advance registration for Fall Semester

Good Friday recess:

Classes recess, 10 p.m.	Thur., Apr. 17
Classes resume, 8 a.m.	Mon., Apr. 21

Last day of classes	Wed., Apr. 30
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Study days	Thur.-Fri., May 1-2
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Final examinations	Mon.-Fri., May 5-9
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Baccalaureate and Commencement	Sat., May 10
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Residence halls close	Sat., May 10
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Summer Session 2003

Residence halls open	Sun., May 11
Registration for Three Weeks Term (Term I)	Mon., May 12

Classes begin	Mon., May 12
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Late registration ends	Tues., May 13
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Last day to withdraw from class and receive:

100% tuition refund	Tues., May 13
75% tuition refund	Wed., May 14
50% tuition refund	Thur., May 15
25% tuition refund (No refunds after this date.)	Fri., May 16

Last day for electing Pass/No Credit grading option	Fri., May 16
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Last day students may withdraw from a class	Wed., May 21
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Memorial Day Holiday	Mon., May 26
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Last day of classes	Fri., May 30
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Registration for Eight Weeks Term (IE)	Mon., May 12
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January 9 through May 9

	Wed., Jan. 8
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	Thur.-Fri., Jan. 9-10
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	Mon., Jan. 13
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	Fri., Jan. 17
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	Mon., Jan. 20
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	Fri., Jan. 17
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	Fri., Jan. 17
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	Fri., Jan. 17
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	Mon., Jan 27
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	Mon., Feb. 3
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	Mon., Feb. 10
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	Mon., Feb. 10
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	Wed., Mar. 5
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	Fri., Mar. 7
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	Mon., Mar. 17
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	Wed., Mar. 19
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	Mon.-Fri., -- Mar. 24-28
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	Mon.-Fri., -- Mar. 31-Apr. 4
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	Mon.-Fri., Mar. 31-Apr. 4
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	Mon.-Fri., Apr. 7-11
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	Thur., Apr. 17
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	Mon., Apr. 21
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	Wed., Apr. 30
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	Thur.-Fri., May 1-2
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	Mon.-Fri., May 5-9
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	Sat., May 10
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	Sat., May 10
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	Sun., May 11
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	Mon., May 12
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	Mon., May 12
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	Tues., May 13
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	Tues., May 13
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	Wed., May 14
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	Thur., May 15
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	Fri., May 16
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	Fri., May 16
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	Wed., May 21
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	Mon., May 26
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	Mon., May 26
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	Fri., May 30
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	Fri., May 30
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	Mon., May 12
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Classes begin	Mon., May 12
Late registration ends	Tues., May 13
Last day to withdraw and receive:	
100% tuition refund	Fri., May 16
75% tuition refund	Mon., May 19
50% tuition refund	Tues., May 20
25% tuition refund (No refunds after this date)	Wed., May 21
Last day for electing Pass/No Credit grading option	Wed., May 21
Memorial Day Holiday	Mon., May 26
Last day a student may withdraw from a class	Wed., June 11
Last day of classes	Thur., July 3
Independence Day recess	Fri., July 4
Registration for First Five Weeks Term (Term II)	Mon., June 2
Classes begin	Mon., June 2
Late registration ends	Tues., June 3
<i>Last day to withdraw and receive:</i>	
100% tuition refund	Tues., June 3
75% tuition refund	Wed., June 4
50% tuition refund	Thur., June 5
25% tuition refund (No refunds after this date)	Fri., June 6
Last day for electing Pass/No Credit grading option	Fri., June 6
Last day students may withdraw from a class	Wed., June 18
Last day of classes	Thur., July 3
Independence Day recess	Fri., July 4
Registration for Second Five Weeks Term (Term III)	Mon., July 7
Classes begin	Mon., July 7
Late registration ends	Tues., July 8
<i>Last day to withdraw from class and receive:</i>	
100% tuition refund	Tues., July 8
75% tuition refund	Wed., July 9
50% tuition refund	Thur., July 10
25% tuition refund (No refunds after this date)	Fri., July 11
Last day for electing Pass/No Credit grading option	Fri., July 11
Last day students may withdraw from a class	Wed., July 23
Last day of classes	Fri., Aug. 8
Residence halls close	Sat., Aug. 9

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Academic Services and Opportunities

[Academic Advising](#)
[The Center For Academic Services](#)
[Policy and Procedures for Students with Disabilities](#)
[The William L. Adams Writing Center](#)
[The Office of International Education](#)
[Freshman Seminar Program](#)
[Washington Internships](#)
[Independent Study](#)
[Extended Education](#)
[The Library](#)
[Information Services](#)
[ROTC](#)
[Reading Improvement Services](#)
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[Honors and Recognitions](#)

Academic Advising

TCU provides academic advising as well as a number of other services and opportunities to help students plan and develop programs suited to their educational and career goals. Academic advising is an ongoing process that helps students clarify plans and goals.

Students should meet with an academic advisor at least once each semester to plan future course schedules and initiate the registration process. At these meetings, students and advisors will discuss academic records, which may include grade reports, transcripts, evaluations of work transferred to TCU, and degree plans. Prior to seeing their advisors, students should become familiar with degree and major requirements for programs of interest and courses for which they wish to enroll. Advisors will answer questions and make suggestions, **but the student must assume full responsibility for satisfying all program and degree requirements.**

Students who have declared majors will be advised by faculty members in major departments or by professional staff in the school or college of that major. Premajors (those who have not formally declared a major) will be advised by faculty advisors and professional staff associated with the Center for Academic Services. This center provides a number of programs designed to help students identify career interests and possible majors. When students declare a major, they are referred to the major department, school, or college for future advising.

The Center For Academic Services

The Center For Academic Services offers services and programs to enhance the academic experiences of students at TCU.

Major functions of the center include:

- academic advising, including career counseling, for premajors,
- support for students seeking to improve academic skills and performance,
- academic advising for students during Orientation programs, and
- services for students with disabilities.

The center also sponsors a one-hour credit course, Self Assessment and Career Exploration (UNPR 10001), to help students learn about their interests, values, and ambitions. Students explore career paths and learn about majors that may allow them to reach career goals.

Students who are not meeting academic standards or who want to improve academic skills and performance may visit the center to examine a variety of materials providing information on study skills, time management, and related concerns. The center staff will assist students by providing advising, group workshops, a library of related materials, and computer-based programs.

Policy and Procedures for Students with Disabilities

Texas Christian University complies with the Americans with Disabilities Act and with Section 504 of the Rehabilitation Act of 1973 regarding students with disabilities. No otherwise qualified individual shall be denied access to or participation in the services, programs, and activities of TCU solely on the basis of a disability. The University shall provide reasonable accommodations for each eligible student who (a) has a physical or mental impairment that substantially limits a major life activity, (b) has a record or history of such an impairment, or (c) is regarded as having such an impairment.

Each eligible student is responsible for presenting relevant, verifiable, professional documentation and/or assessment reports to the Coordinator for Students with Disabilities. Information concerning a student's disability is

treated in a confidential manner in accordance with University policies as well as applicable federal and state laws. Documentation presented to the Coordinator shall be reviewed by appropriate University professional(s) to verify the existence of a disability. Further documentation may be required from the student to substantiate the claim of a disability or to assist the University in determining appropriate accommodations.

Eligible students seeking accommodations should contact the coordinator as soon as possible in the academic term for which they are seeking accommodations. The Coordinator shall prepare letters to appropriate faculty members concerning specific, reasonable academic adjustments for the student. The student is responsible for delivering accommodations letters, conferring with faculty members, and returning validation of the receipt of information to the Coordinator. The Coordinator shall consult with the student and with University faculty and staff to ensure delivery of appropriate support services and shall serve as liaison between the student and the faculty member as needed.

Students who wish to appeal a decision regarding appropriate accommodations shall file a written request for review with the Associate Vice Chancellor for Academic Support.

The William L. Adams Writing Center

The Writing Center offers assistance with writing projects and assignments to all TCU students. Staffed by professional writing instructors and peer tutors, the Writing Center provides students one-on-one tutorials free of charge. Conferences usually focus on a particular project or assignment but may also include general writing instruction.

In addition, the Writing Center maintains a computer lab equipped with Office 97, MicroSoft Word and access to e-mail and the Internet.

The Writing Center is located in Room 100 of the Rickel Building and is open 8 to 5 p.m. Monday through Friday. Students may make an appointment by calling (817) 257-7221 or can drop by and wait for the next available tutor. Students may also use the Writing Center at the library on Sunday through Thursday evenings from 6 to 9 p.m. or take advantage of the new on-line tutorial service (instructions available on the Writing Center website at <http://gamma.is.tcu.edu/wrt/>).

The Office of International Education

The International Education Office serves the University's commitment to the preparation of educated citizens by providing opportunities for significant international academic experiences. The office participates in the recruitment, orientation, and academic and individual advising of international students at TCU. The office also oversees the Intensive English Program and promotes opportunities for study abroad. International education exchange activities including speakers, conferences, and short-term seminars are also coordinated by this office. The Office of International Education is located in Sadler 16, telephone (817) 257-7473.

Study Abroad Programs

For those students who wish to enhance their education through international study, TCU offers a wide range of academic programs including summer courses led by TCU faculty members. In recent years TCU summer courses have featured study in England, France, Germany, Hungary, Japan, Mexico and Scotland. These intensive courses are developed and directed by TCU faculty members from such disciplines as art history, business, communications, education, geology, history, interior design, literature, modern languages, and political science. Carrying TCU credit and the possibility of financial aid, these courses fulfill many of TCU's graduation requirements while providing an exciting opportunity to work closely with some of TCU's best faculty members.

The TCU London Centre provides a unique opportunity for students to study in one of the major international capitals. The semester-long academic program offered at the Centre uses London and Great Britain as its texts. Course offerings from disciplines such as history, political science, literature, communications, international economics, theater and art history vary by semester with most students enrolling in four classes during the fall or spring semester. TCU's internship program is also coordinated through the London Centre. Because the London Centre is an extension of the Fort Worth campus, TCU financial aid and scholarships may be applied to study in London and all courses earn TCU credits.

Other special study abroad opportunities include exchange programs with the University of the Americas in Puebla, Mexico, and Kansai Gaidai University in Osaka, Japan. Both of these semester-long programs involve direct enrollment in the affiliated university but do not interrupt TCU residency requirements. TCU financial aid and scholarships may be applied to work under these exchange programs and all courses carry TCU credit.

Through TCU's affiliation with prominent consortia such as the Institute for the International Education of Students (IES) and the Council for International Educational Exchange (CIEE), students may study in many Asian, European, and Latin American countries for a summer, semester, or full year.

The Intensive English Program

The aim of the Intensive English Program (IEP) is to help students advance rapidly towards their academic, professional, or personal English language goals. Advanced-level IEP students may enroll in TCU courses for degree credit while in the noncredit, certificate program. Graduates of the IEP are not required to take the TOEFL for unconditional admission to the TCU degree programs. In addition, the University waives the foreign language requirement of the undergraduate degree when students demonstrate exceptional proficiency in English. (Undergraduate candidates should see the admissions section on "Admission of International Students" in this bulletin.)

IEP students use the most advanced technology available for learning English. The IEP's networked computer lab distributes streaming audio and video materials to the lab stations; in addition, students access the World Wide Web and self-directed, self-pacing language-learning software.

An IEP student begins at his or her own level and studies intensively at least 25 hours each week. Classes are organized into teams of five or fewer students. The program curriculum fosters and integrates many experiences with the people, books, movies, music, research, higher education, business and language of the United States.

The IEP sessions begin six times a year in January, March, May, July, August and October, with class study breaks for at least a week between sessions.

Freshman Seminar Program

Texas Christian University is an educational community where faculty members promote active learning and encourage personal growth and individual achievement. One means of moving toward achievement of these goals is embodied in the Freshman Seminars offered to first-year students during the fall semester of each academic year.

A common goal of each seminar is to help students develop the intellectual skills and self-confidence necessary for success in a university setting. Guided by scholars, who are often senior faculty members, students learn to approach learning experiences with creativity, self-expression, and independent thinking. Activities in seminars often include discussion of ideas, research on special projects, and fieldwork that can lead to increased communication and critical-thinking skills for students.

The seminars are structured to provide an intensive, personalized learning experience that will enhance the first-year student's sense of belonging to the academic community. Limited enrollment in Freshman Seminars allows for personal contact between students and faculty. Furthermore, the interactive format allows students to get acquainted more easily, leading not only to academic orientation, but also to social integration within the university.

Freshman Seminars, offered in a variety of disciplines, are listed in the Schedule of Classes prepared each semester by the Registrar. Course descriptions appear in a special publication that is distributed during summer orientation sessions for first-year students. Seminars are usually offered only in the fall semester; students may enroll in only one seminar.

Washington Internships

TCU is an affiliate of the Washington Center, a nonprofit independent educational institution which provides comprehensive learning opportunities in the nation's capital for students from over 300 colleges and universities. The program includes placement, supervision, evaluation, seminars, housing, counseling, special events and other support services.

The program is open to students in any major field. Minimum requirements include a 3.0 GPA, and students must return to campus for at least one semester. Individuals must apply one year in advance of the expected internship. All students accepted must take POSC 40900, Washington Internship Seminar, during the spring semester before the internship the following fall.

Students who participate in the fall program in Washington receive fifteen hours of credit in political science. Students should consult with their academic adviser to determine how these credits may satisfy departmental or university requirements. For further information about the program, contact the Political Science Department at TCU.

The University also participates in an experiential learning program in Washington, D.C., through its affiliation with the Washington Center. During a two- or three-week program, students participate in discussions, lectures, tours, site visits, and briefings organized around a central topic, such as Leaders on Leadership, Women as Leaders, Law and Society, The Global Society, and the National Political Conventions. Credit for the program is arranged through independent study. For further information, contact the Department of Political Science.

Independent Study

Most departments at TCU offer an opportunity for independent study, usually pursued late in one's major.

It has a broad range of purposes. Perhaps most important is exposure of the undergraduate student to methods and techniques usually reserved for graduate students. Seminars, reading and reviews, and independent research characterize this phase of a student's work, which normally is optional.

Independent study courses are also available to exceptional students with exceptional needs. A student, for example, may want a more intensive exposure to a specific subject than a standard course provides. With faculty approval, an independent study course can provide the opportunity to go as far as interest and capability allow.

Extended Education

The Office of Extended Education coordinates non-degree admissions to the University. These include nontraditional students age 22 and older. The office also coordinates the Portfolio Assessment Program. This program awards undergraduate degree credit for knowledge acquired through life experience. Information about non-degree admissions and the Portfolio Assessment Program can be obtained by calling (817) 257-7130 or writing to TCU Box 297026, Fort Worth, TX 76129. Financial aid is made available to qualified part-time students to support their

part-time studies at TCU. (See "Programs for Non-Traditional Students" in the Finances section.) Contact the Office of Scholarships and Student Financial Aid for more information.

The Library

Research, study and independent inquiry at TCU are greatly facilitated by the collections and services of a centralized university library. The Mary Coats Burnett Library is a modern, attractive and well appointed building complex with over 158,000 square feet dedicated to services and materials storage. The library houses a collection of more than 1.9 million items and maintains current subscriptions to some 4,800 journals. Materials are classified and arranged according to the Library of Congress system; open stacks afford convenient access to most items. Professional librarians and support staff select, maintain and interpret the collections for library users. Particular collections include Texas, United States and European Community documents; the Archives of the Van Cliburn International Piano Competition; the papers of former Speaker of the House, James C. Wright, Jr.; the papers of Amon G. Carter, Sr.; the University's historical collection; and special collections of rare books and manuscripts such as the William Luther Lewis Collection of English and American Literature. A music library and audio center; the Brite Divinity Library; and a computer lab are also located within the library building.

The TCU Library maintains a dynamic web site which serves as a gateway to information within the library and to the world at large. As the World Wide Web and the Internet have become integral parts of teaching and information seeking in almost all educational institutions, the role of the library has become one of guidance and evaluation of these resources. Accordingly, it provides access to an array of consistent and reliable databases such as Lexis-Nexis, OCLC FirstSearch and PsycINFO. These, together with a growing number of electronic journals and full-text databases, can be accessed from dorm rooms or home 24 hours a day.

Through active membership in local, regional and national library consortia the Library is able to secure for TCU faculty and students the advantages that come with library resource sharing. Our membership in TexShare enables TCU faculty and students to obtain borrowing privileges from more than 150 academic libraries throughout Texas.

Information Services

The central computing facility, located on the ground floor of the Sid W. Richardson Sciences Building, provides network connectivity throughout the campus and microcomputer services and support for all levels of the University.

Using various client servers, Information Services provides support for all programs used by campus departments and supplies direct access to the Internet, the Library and specialized databases as required.

The Information Services staff is available through the HELP DESK (SWR Room 148, (817) 257-5855) for consultation and assistance with computer problems, as well as the selection and purchase of hardware and software. A newsletter (TCUSER) providing information about new services, products and support activities is published electronically each semester. Various classes on using the administrative software packages are offered for faculty and staff each semester. In addition, a wide selection of training materials for campus-supported software is also available. The Information Services administrative office is located in SWR Room 175, (817) 257-7682.

ROTC

The Reserve Officers Training Corps, Senior Division, became an integral part of TCU in 1951. An Army unit and an Air Force unit are maintained. Students eligible enroll in the service of their choice. Graduates are commissioned as second lieutenants, United States Army Reserve or United States Air Force.

Credit for work in a Senior ROTC unit in another university or college may be transferred to TCU, with the concurrence of the military department concerned and the appropriate dean.

For detailed information, refer to "Reserve Officers Training Corps" in the AddRan College section of this bulletin.

Reading Improvement Services

The School of Education provides instruction to improve reading skills. Criteria for admission to the course in College Reading Techniques are described under the School of Education section of this bulletin.

Instructional Services

The successful integration of instructional technology into the teaching and learning environment is essential in today classroom. Instructional technologies can potentially enrich the education of students at the University. The Center for Instructional Services supports classroom instruction by providing resources to faculty, staff and students to meet their instructional needs. The Center is comprised of five support areas: (1) Classroom Support Services maintains and supports a complement of instructional media equipment for classroom use; training is provided for equipment installed in classrooms and, upon request, equipment may be delivered, set-up, and retrieved. (2) Instructional Graphics Services provides assistance in the planning and production of a variety of instructional and presentation resources. (3) Instructional Video Services provides for a variety of video-based resources for classroom use and special events. (4) Instructional Support Services facilitates the Student Perceptions of Teaching (SPOT) process and houses a manual Scantron test scoring machine for faculty use. (5) Instructional Technology Consultation for the integration of technology into the curriculum is provided to faculty through workshops and one-on-one training.

The Center for Instructional Services is located in Suite B16 of the Mary Coats Burnett Library, with its own outside entrance on the southeast corner of the library.

Honors and Recognitions

The University honors high academic achievement. The most significant recognitions are conferred at graduation time, but there are many interim awards as well. Some formal recognitions become a part of the student's permanent academic record; others may be in the form of a letter of commendation or list posted on the bulletin board. Each spring, Honors Week focuses attention on high academic achievement through special programs and publications. (Grade point average requirements discussed in the following sections refer exclusively to the TCU GPA.)

TCU Scholars. Full-time, degree-seeking undergraduate students who achieve a 4.0 grade point average (all A grades) in any spring or fall semester are recognized as "TCU Scholars" by the academic deans. In that semester they must have earned credit for at least 12 hours, and "I" and "P" grades are not counted. "TCU Scholars" may audit one course without fee any time within a year of their designation.

Dean's Honor List. At the end of each fall and spring semester, deans of undergraduate schools and colleges announce the names of those who have done exceptionally well. To be eligible for the Dean's Honor List, freshmen must achieve at least a 3.4 GPA, sophomores at least 3.5, juniors at least 3.6, and seniors at least 3.7. In that semester they must have earned credit for at least 12 hours, and "I" and "P" grades are not counted.

Graduation Honors. Students with a grade-point average of 3.9 or above are graduated Summa Cum Laude, perhaps the highest academic distinction. Those with 3.7 or above are graduated Magna Cum Laude, an only marginally less prestigious honor. And for those with 3.5 or above, graduation is Cum Laude.

Graduation honors are reserved for students who earn at least 60 semester hours at TCU exclusive of any credit by examination.

Honor Societies. In almost all academic fields, national honorees societies recognize students who show exceptional ability. Most departments at TCU have chapters of such societies to which high-achieving students are invited. In addition, some prestigious honor societies are open to students from throughout the University. Perhaps best-known at TCU and over the nation are these:

Phi Beta Kappa, the oldest such society in America and one of the most selective, invites to membership students with high grades whose studies show a breadth of knowledge in the liberal arts. Most initiates are seniors, though juniors and graduate students are sometimes invited as well.

Sigma Xi, the Scientific Research Society of North America, invites to membership persons whose research has made an original contribution to the sciences. Undergraduate students with exceptional research papers meet the society's requirements.

Mortar Board invites students on the basis of their service and leadership as well as scholarship.

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Admissions

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[Nonresidential Course Work](#)

Texas Christian University does not discriminate on the basis of personal status, individual characteristics or group affiliation, including but not limited to classes protected under federal and state law.

Applications for admission to the undergraduate schools and colleges and requests for further information should be addressed to the Office of Admissions, Room 112 of Sadler Hall; the mailing address is TCU Box 297013, Fort Worth, Texas 76129. Non-degree students should contact the Office of Extended Education, TCU Box 297026, Fort Worth, Texas 76129.

General Policies

Admission to the University. Qualified undergraduate students are admitted *to the University* rather than to a specific program, school or college. Application deadlines and notification dates for freshman and transfer applicants are stated in the Application for Undergraduate Admission. Deadlines for applying for financial aid may be obtained by calling the Office of Scholarships and Financial Aid.

Health Record and Insurance. All students taking nine or more semester hours must have a health record on file in the Brown-Lupton Health Center prior to final admission to TCU. Medical insurance is required of all undergraduate students taking nine or more hours. Students may choose insurance through family coverage, TCU's plan or another carrier of their choice.

Residence Hall Requirement. Unmarried students under 21 years of age classified as freshmen at the time of registration and enrolling for nine or more semester hours are required to live on campus unless living at their parents' residence. Students who are 17 years old or younger at the time of registration will be approved to live in residence halls on a case-by-case basis.

b. Refer to section titled *Admission of International Students*.

Credit by Examination and Portfolio Assessment

Through several methods, students may earn academic credit for college-level learning by taking an examination in the appropriate area. Credit granted usually can be used to satisfy specific and general degree requirements. Refer to the section Bachelor Degree Requirements found elsewhere in this bulletin.

The credit by examination procedures are reviewed and updated annually. A current brochure is available from the Office of Admissions.

On a limited basis, portfolio assessment is another method used to earn academic credit for college-level learning. A portfolio is a formal, written document including a resume, detailed personal history, description of skills and competencies, and documentation to support the student's request for credit. Only limited credit has been approved using this method. More information on the portfolio assessment program can be obtained by contacting Office of Extended Education, (817) 257-7130.

Credit for Military Service

The University follows, with limitations, the recommendations of the American Council on Education as published in the Guide to the Evaluation of Educational Experiences in the Armed Services in granting credit for military service schools.

Courses must be in the "baccalaureate/associate degree category" as defined by the ACE Guide. This precludes acceptance of vocational, technical or certificate category courses, or military occupational specialties or job experience.

For consideration of credit for military service schools, the applicant must submit the following military records:

1. certified original of the DD Form 295, or
2. copy of the DD Form 214, or
3. course completion certificates, or
4. a Community College of the Air Force transcript.

The Office of the Registrar will assist persons eligible for veterans' education assistance benefits.

Nonresidential Course Work

The University examines all nonresidential learning experiences and grants credit on a case-by-case basis.

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Admission of Students

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Admission of Freshman Students

TCU invites applications from qualified high school students who have graduated or expect to graduate from an accredited secondary school. The student should request information about TCU early in the high school career to learn about admission requirements.

Students applying from secondary schools should request, complete, and return application forms following their junior year in high school. Applicants are considered for admission after the Office of Admissions receives:

- a. completed application form
- b. official secondary school transcript
- c. SAT or ACT scores
- d. \$35 application fee
- e. essay and résumé of activities
- f. secondary school guidance counselor's evaluation of applicant.

It is the student's responsibility to complete the application procedure. Students accepted to the University prior to high school graduation are admitted on a tentative basis, pending successful completion of their senior year with academic performance consistent with that upon which the admission decision was based. Verification of graduation is required.

Any college-level coursework attempted after admission but before matriculation must be reviewed by the Office of Admissions prior to enrollment and may nullify the offer of admission.

Admitted students must return a nonrefundable enrollment fee by May 1st (National Candidate Reply Date) to secure a place in the fall class.

The following factors are considered when selecting candidates for admission:

1. High School Record. Students are expected to have completed upon graduation a **minimum** of 4 units of English, 3 units of mathematics (including 2 units of algebra and 1 of geometry), 3 units of science (including one laboratory science), 3 units of social studies, 2 units of foreign language and 2 units of academic electives. The quality and quantity of coursework taken, grades earned, and subsequent rank in the high school class are important in assessing a candidate's probability for success at TCU.
2. Admission Tests. Candidates must present results of the SAT of the College Board or the American College Test (ACT). Arrangements to take one of these tests should be made through the student's secondary school. If the candidate has been out of high school more than three years, the SAT/ACT requirement is waived. In addition, prospective performance music majors must audition either in person or by tape recording. Prospective ballet and modern dance majors must also audition.
3. Essay and Counselor's Evaluation. The student's essay is a significant part of the application as is the high school counselor's evaluation. If the candidate has been out of high school more than three years, the counselor's evaluation requirement is waived.
4. Extracurricular Participation. Activities outside of class, including employment, community/volunteer work, and leadership experiences are evaluated.
5. College Courses taken while in high school. The quality of coursework completed and the grades earned will be considered during the admission process. Official college transcripts must be presented to determine transferability of credit.

Admission of Transfer Students

A transfer student is defined as one who has been out of high school for at least one full semester and has attempted college or university work for credit.

Students planning to transfer from another college or university should submit the following for admission consideration:

- a. completed application form
- b. official transcripts from each college attended
- c. \$35 application fee

d. secondary school transcript and SAT or ACT scores if, at the time of application, fewer than 24 semester hours of transferable work have been completed. The SAT/ACT may be waived if the student has been out of high school for two or more years.

Admission to TCU as a transfer student is based upon evidence of ability to succeed in college-level work. The applicant's total record will be assessed, taking into account the following:

1. the cumulative grade point average
2. quality of curriculum
3. the number of hours and GPA in core subjects
4. the high school record and test results (if possessing fewer than 24 transferable semester hours at the time of application)
5. extracurricular activities, achievements and honors
6. essay.

The applicant must be in good academic standing and be eligible to return to all previous institutions. Official transcripts must be submitted from each college attended whether the work was satisfactory, unsatisfactory, or interrupted. Failure to disclose any part of a previous academic record is a serious violation of trust and will subject a student to dismissal and forfeiture of credit earned while in attendance at TCU.

Evidence of acceptable academic standing at an accredited college or university and appropriate academic credentials are required. A minimum cumulative GPA of 2.0 is necessary for consideration although a cumulative GPA of 2.75 or higher is generally required for admission. Every application will be reviewed on an individual basis. In most cases, greater emphasis is placed on academic work completed in recent semesters than on work that a student may have completed in the more distant past.

Grades on all attempted transferable courses except physical education activity courses (including repeated courses and those in which grades of F, D or I were received) will be used in calculating the grade point average to determine the applicant's qualification for admission. Once admitted, a student's transfer grades will not be entered on the student's permanent record at TCU.

Students admitted to the University will receive, with their letter of admission, a transcript evaluation sheet listing all transferable courses. A course listed as "transferable" on the transcript evaluation is not necessarily applicable or acceptable under certain degree programs.

Courses that do not transfer to TCU include the following:

1. courses in which a grade of D was earned
2. courses considered to be developmental (e.g., orientation, time management, library skills, and remedial (e.g., those in English, math and reading)
3. Vocational-Technical courses.

No more than 66 hours from a community college may be credited toward a bachelor's degree, and no course transferred from a community college may be used to satisfy the TCU advanced-hour requirement. No more than 8 semester hours of physical education activity courses may be applied toward graduation requirements.

A nonrefundable enrollment fee is required no later than four weeks prior to the beginning of the initial term.

Note: Students transferring to TCU must present a record of all transfer work for evaluation to the Office of Admission for approval by the appropriate academic dean prior to their enrollment in the University. Transfer coursework not presented prior to enrollment may not be counted toward a degree.

After enrolling at TCU, all students must receive prior written approval of the appropriate academic dean if they wish to take courses at another institution and have those courses count toward a degree at TCU. Coursework taken without prior written approval may not be applied to a degree.

Some programs have certain requirements that must be met to enroll in upper division courses. Transfer applicants who plan to declare a major in the M.J. Neeley School of Business, College of Health and Human Sciences or the School of Education, for instance, should refer to those special requirements set forth in the appropriate programmatic sections of this Bulletin.

Admission of International Students

International (nonimmigrant) undergraduate applicants for admission to TCU must demonstrate:

1. High scholastic achievement, with above average academic performance in their secondary or high school studies and on national examinations, where such examinations are administered. Students transferring from a university or other institution of higher education should have above average grades in their post-secondary studies. Former TCU international students should refer to the section on Readmission of Former Students.
2. A satisfactory command of English as demonstrated by such examinations as TOEFL (Test of English as a Foreign Language), the SAT (Scholastic Aptitude Test), The ACT (American College Test) or another widely recognized test of English proficiency. The minimum TOEFL score accepted for admission of beginning undergraduate students is 550 on the paper-based examination or 213 on the computer-based examination. Transfer students who have successfully completed English composition at a U.S. college and have 24 hours of transferable credits may be exempt from English testing.

Applicants who have not achieved the required level of English proficiency are encouraged to enroll in TCU's Intensive English Program, which offers six sessions each year.

Regardless of the level of English language proficiency, all admitted international students are tested upon arrival at the University and, depending on their test results, may or may not be required to take certain English language credit courses to overcome deficiencies.

Admitted students must eliminate any deficiencies determined by the TCU English Proficiency Exam within the first two full semesters in order to continue their studies at TCU.

Procedures. Nonimmigrant applicants should request the "International Student Application for Undergraduate Admission."

The application contains detailed instructions regarding documents that must be submitted and deadlines for application.

Admission for summer sessions is considered only for applicants with at least 24 semester hours of higher education in the U.S.

When the application is complete, the International Committee on Admissions will evaluate the credentials and send the applicant a letter stating its decision. If admitted, the applicant will be provided information regarding dates of arrival, orientation, testing, and additional requirements. At least one month prior to orientation, students must submit a health record and provide proof of the availability of funds to cover all educational and living expenses. International orientation is required of all new international students.

Advanced credit may be granted for certain courses considered to be beyond the level of U.S. secondary school courses, provided that the grades are at least average. Results from exams such as the International Baccalaureate, the German Abitur, the British General Certificate of Education (GCE) "A" Levels, and other similar national exams can be considered for possible advanced credit.

The University standards and procedures regarding international students are consistent with those expressed in the "Admissions Standards and Procedures" of NAFSA: Association of International Educators.

Housing. Undergraduate applicants in their first year of higher education and who are less than 21 years of age are required to reside in on-campus housing. Other applicants may apply for housing on campus after being granted admission and may receive a reservation depending on space availability at the time of application.

Additional information can be obtained from the International Admissions Office, TCU Box 297013, Texas Christian University, Fort Worth, Texas 76129, U.S.A. or by calling (817) 257-7871 or sending a FAX to (817) 257-7268.

Admission of Non-Degree Students

Students interested in taking courses for academic credit but not in seeking a degree from TCU may be admitted for non-degree study. Non-degree students are held to the same standards governing academic progress (including probation/suspension) as degree students.

Non-degree status would apply to persons in the following categories:

1. taking only ROTC at TCU and enrolled at another college or university
2. seeking Ranch Management certification
3. seeking only teacher certification
4. with an undergraduate degree desiring additional undergraduate coursework
5. applying as summer visiting students.

Persons who do not fit into any of these categories, but want to take credit courses, would be considered for limited enrollment status.

Limited enrollment status is open to persons who:

1. are 22 years of age or older with a high school diploma and/or equivalency diploma based on the GED,
2. are in good standing at all colleges where they are currently enrolled or have ever been enrolled, and
3. have not been previously denied admission or readmission to TCU.

A limited enrollment student may not enroll in more than six (6) semester hours of coursework per semester or three (3) hours per summer session. Exceptions must be approved by the Office of Extended Education. A maximum of twelve (12) semester hours may be accumulated. At that time a student may apply as a degree-seeking student or receive special permission to continue beyond the 12 hours limitation.

Applications for non-degree study may be obtained from the Office of Extended Education.

Nonimmigrant students may be considered for non-degree status without the limitations stated above, but must abide by the regulations stipulated by the Office of International Student Affairs. These applicants should contact the Office of International Student Affairs for specific limitations, application forms, and procedures for international students.

Non-degree to degree status: Undergraduate students who wish to change from non-degree to degree status must submit the appropriate application form obtained from the Office of Admissions. The semester hours earned as a non-degree student can be applied toward a degree program if applicable.

Admission of Students by Individual Approval

Students who demonstrate outstanding academic achievement and potential, but have not yet graduated from high school, may be admitted by individual approval. Such students seeking concurrent enrollment or early admission should contact the Office of Admissions for further information.

Applicants 21 years of age or older who submit results of a General Education Development (GED) examination may be considered for admission on an individual basis. Such applicants generally are encouraged to attend a two-year college for a semester or more in preparation for university studies.

Re-enrollment of Former Students

Students previously enrolled and in acceptable academic standing in an undergraduate degree program who wish to re-enter TCU after absence of a full fall or spring semester must apply for re-enrollment and pay an application fee. Official transcripts from each college or university attended since the last enrollment at TCU must be submitted (see exception under "re-enrollment following suspension") to the registrar's office. Eligibility for re-enrollment will be determined upon review and assessment of the student's entire record.

Former TCU students originally awarded an *academic scholarship* who are applying for re-enrollment may petition for the restoration of that scholarship or may be eligible to compete for a transfer academic scholarship if coursework has been completed at another university. Students may not receive a scholarship that exceeds the original TCU scholarship.

Nonimmigrant students should apply for re-enrollment at least two months prior to registration in order to meet all requirements of the Office of International Student Affairs.

Re-enrollment involving a change of major. When a student is re-enrolled with a change of major, the Registrar's Office will initiate the Change of Major form. Permission to change major requires approval of the dean of the new major. All entrance requirements specific to the new major must also be met. See Requirements for Graduation section.

Re-enrollment following suspension. All students suspended from TCU for academic or disciplinary reasons must apply for re-enrollment through the registrar's office. No enrollment will be permitted following a period of suspension until re-enrollment is approved by the registrar's office after consultation with the appropriate dean. (See Academic Probation and Suspension elsewhere in this bulletin.)

A student suspended from TCU may not transfer credit that was earned at another college or university during the period of enforced suspension, but must submit all transcripts of any work attempted or completed during that period.

A student may not re-enter TCU while on academic suspension from another college or university.

Re-enrollment following extended separation from the University. A student accepted for re-enrollment after a ten-year separation from TCU may petition to have all prior coursework at TCU (selected course exclusion is not permitted) excluded from the TCU GPA calculation and credit toward graduation. The petition should be filed no later than the end of the first semester of re-enrollment in a degree program and be addressed to the registrar who will seek the approval of the appropriate academic dean. If the petition is granted, it is irrevocable. Excluded courses and corresponding grades will still appear on the official transcript but will not be included in calculation of the GPA, will not be counted as meeting credit hour requirements for graduation, and will not be used to satisfy course requirements.

Admission of Students Seeking an Additional Bachelor's Degree

First-time applicants should complete the Application for Undergraduate Admission for Transfer Students. Students who have previously attended TCU should complete the Application for Re-enrollment and see the section on

Re-enrollment of Former Students. See *Additional Bachelor's Degree* in the Bachelor's Degree section. The student's entire academic record, as well as credentials submitted with the application, will be assessed prior to an admission decision.

Credit by Examination and Portfolio Assessment. Through several methods, students may earn academic credit for college-level learning by taking an examination in the appropriate area. Credit granted usually can be used to satisfy specific and general degree requirements. Refer to the section Bachelor Degree Requirements found elsewhere in this bulletin.

The credit by examination procedures are reviewed and updated annually. A current brochure is available from the Office of Admission.

On a limited basis, portfolio assessment is another method used to earn academic credit for college-level learning. A portfolio is a formal, written document including a resume, detailed personal history, description of skills and competencies, and documentation to support the student's request for credit. Only limited credit has been approved using this method. More information on the portfolio assessment program can be obtained by contacting Office of Extended Education, (817) 257-7130.

Credit for Military Service The University follows, with limitations, the recommendations of the American Council on Education as published in the Guide to the Evaluation of Educational Experiences in the Armed Services in granting credit for military service schools.

Courses must be in the "baccalaureate/associate degree category" as defined by the ACE Guide. This precludes acceptance of vocational, technical or certificate category courses, or military occupational specialties or job

experience.

For consideration of credit for military service schools, the applicant must submit the following military records:

1. certified original of the DD Form 295, or
2. copy of the DD Form 214, or
3. course completion certificates, or
4. a Community College of the Air Force transcript.

The Office of the Registrar will assist persons eligible for veterans' education assistance benefits.

Nonresidential Course Work. The University examines all nonresidential learning experiences and grants credit on a case-by-case basis.

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The Bachelor's Degree

Definitions and Regulations

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Student's Responsibility

Faculty, academic advisors and deans are available to help students understand and meet academic requirements for a degree, but the students themselves are responsible for understanding and fulfilling them. If requirements are not satisfied, the degree will be withheld pending adequate fulfillment. Thus it is essential that each student become familiar with all requirements and remain currently informed throughout the college career.

Definitions and Regulations

Semester Hour

The unit of measure for academic credit purposes is the semester hour. A semester hour is equivalent to one hour of recitation or a minimum of 2 hours of laboratory per week for a semester or an equivalent time for a shorter term. Two hours of preparation for each classroom hour, on the average, are expected.

Grading

The faculty definition of grades, and the point system designed to indicate quality of work, is as follows:

- A - Designates exceptional work, 4 points per semester hour.
- B - Designates superior work, 3 points per semester hour.
- C - Designates satisfactory work, 2 points per semester hour.
- D - Designates poor work, 1 point per semester hour.
- F - Designates failure, 0 points per semester hour.
- P - Passed the course.
- NC - No credit awarded for the course.

Non-grade Designators:

I - Designates course has not been completed and a final grade has not been assigned. (The "I" must be removed within first 60 days of the semester immediately following or it is changed to an "F." Any extension must have written approval of the instructor and dean. This policy does not apply to senior honors research papers, graduate thesis or dissertation hours. The student must secure the permit from the Registrar's Office and take it to the instructor before offering work of any kind toward making up the "I" grade.)

Q - Removed from the course by an academic dean.

W - Officially withdrew from the course.

AU - Officially audited the course.

Pass/No Credit. Undergraduate students may elect a pass/no credit grading option. They may do so by indicating their choice in writing to the office of the Registrar not later than the date listed in the academic calendar for electing the pass/no credit grading option. Courses taken on a pass/no credit basis are graded "P" (pass) and "NC" (no credit). These P/NC courses are not counted in computing the student's grade point average. A "P" course, however, will carry credit hours and be used toward a student's total hours required for graduation. A "P" indicates achievement equivalent to "A," "B" and "C." Achievement equivalent to a "D" and "F" results in the grade of "NC." Students earn no credit hours in courses in which the grade of "NC" is received.

Before using this option, the student should be aware that some majors and degree programs may limit the applicability of courses graded on a P/NC basis. Courses that are offered only with the P/NC grade will be accepted for meeting requirements in a major or degree program and financial aid eligibility. Furthermore, courses offered only with the P/NC grade will not be counted toward a limit on the number P/NC hours that may be applied to a major or degree program. The student should also check on the acceptability of P/NC grades by any honor societies or graduate schools in which the student may be interested. The P/NC option is not allowed in any English as a Foreign Language (ENFL) course. Any questions or exceptions concerning the P/NC option should be directed to the dean of the college of the student's major.

Student-Initiated Withdrawal. The purpose of student-initiated withdrawal from courses is to enhance the learning opportunity in a program of study. On recognition that a student may lack the background needed for the mastery of course content, the subject matter in a course does not match student need or interest as anticipated, or that course requirements will limit effective appropriation of learning in a semester's overall program of study, a student may officially withdraw from a course and receive a "W" in accordance with the policy stated below.

Mere absence from a class does not constitute withdrawal. In order to withdraw from a course, a student must go through official established procedure.

By following established procedures, students may withdraw from any class until five (5) academic days following the published date mid-semester reports of unsatisfactory work are due to the Registrar. The date of withdrawal for all purposes, including tuition adjustment, shall be the date of official withdrawal.

There will be no withdrawals after this date during the fall and spring semesters, or a comparable period during a shorter term.

Any student who experiences unusual hardship may seek special consideration through a written petition to the dean of the college in which he or she is enrolled. Petitions should, where possible, be documented with supporting statements from a doctor, counselor, or family member. That a student is doing unsatisfactory work in a course will not be taken as sufficient reason for special consideration. If, in the opinion of the dean, the request is justified, a grade of Q (dropped by the dean's permission) may be assigned by the dean after consultation with (1) the instructor of the course, (2) the chairman of the department, and (3) the dean of the college in which the course is offered. Any dean assigning a Q will notify the Registrar's Office.

Audit Enrollment (Course visitor). Occasional visitation of classes by students is allowed with the consent of the instructor. Any extended attendance requires enrollment as an audit. Auditors are admitted to classes on a space-available basis only. An audit fee is charged. TCU Scholars (See Recognitions section) are given the opportunity to audit one class (for which auditing is permitted) without fee within 12 months after notification of eligibility. TCU Scholars will be expected to follow the established regulations for auditors. The following regulations are applicable:

1. Certain classes-laboratory and clinical classes, Ranch Management day classes, laboratory sections of lecture classes, activity and performance classes such as in studio art, music and ballet-may not be audited. (Evening Ranch Management classes may be audited at full tuition and fees.)
2. The only period during which students may register for an audit or change a credit class to audit is from the second day of late registration to the last day of late registration as published in the University calendar. It is recommended that prospective students consult the instructors of courses in which they are interested before they register. Students wishing to audit graduate courses must be admitted for graduate study and have written approval of either the instructor of the course for which they wish to register or the dean of the college in which the course is taught.
3. Classroom recitation and participation may be restricted at the discretion of the instructor; no grade is assigned and no credit is awarded.
4. If credit is desired, the student must register for and repeat the regular course after paying regular tuition.
5. The student's name will appear on the instructor's class roll. In order for "AU" to appear on the transcript, however, the instructor must certify at the end of the semester that the student has attended as an auditor. Audits not approved by the instructor as a final grade will be omitted from the student record.

Grade Point Average

Two grade point averages are maintained by Texas Christian University: (1) a semester average based on courses taken at TCU during a particular term, and (2) a cumulative average based on all work attempted at TCU.

A student's grade point average (GPA) is computed by dividing the number of grade points (grade points are earned

per semester hour for the successful completion of academic work) by the number of hours (total credit hours attempted at TCU, excluding those attempted on a pass/no credit basis).

Repeating a Course. If a course taken at TCU is repeated at TCU, the official grade is the last letter grade made although all grades appear on the transcript. Only the last letter grade earned in the repeated course will be used in computing the GPA.

If a course is taken at TCU and then repeated at another institution, or if a course is taken at another institution and then repeated at TCU, only the grade earned at TCU is used to compute the student's GPA. Credit for any given course, regardless of where it was taken, may be counted only once.

The student is responsible for notifying the Registrar when a course is repeated.

Transfer Credit. Transfer credit is identified on the academic record as the total number of credit hours accepted from each institution attended and is added to the total number of cumulative earned hours. Transfer credit hours may satisfy degree requirements but are not used in the calculation of the cumulative GPA.

Pass/No Credit. Pass/no credit courses are disregarded in the calculation of the student's GPA.

Credit by Examination and Portfolio Assessment. Credit earned by examination or portfolio assessment is not assigned a letter grade and is not included in the calculation of the cumulative GPA.

Course Credit

Credit for Transfer Work. Students transferring to TCU must present a record of all transfer work for evaluation to the Office of Admissions for approval by the appropriate academic dean prior to their enrollment in the University. Transfer course work not presented prior to enrollment may not be counted toward a degree.

After enrolling at TCU, all students must receive prior written approval of the appropriate academic dean if they wish to take courses at another institution and have those courses count toward a degree at TCU. Transcripts of course work taken elsewhere must reach the Registrar's office within 30 days of completion of the course work. Course work taken without prior written approval may not be applied to a degree.

Credit for Study Abroad. TCU will accept as transfer credit courses taken by students enrolled in approved foreign colleges or universities if prior written approval is obtained from the appropriate academic dean.

Students who enroll at those foreign colleges or universities with which the University has a formal agreement of institutional affiliation may exercise the following option. Students have the option as to whether or not the courses taken during the foreign study will be used to meet residency requirements, in which case the grades in these courses will be computed in the official TCU grade point average. Students must declare their intent in writing prior to the period of foreign study and said declaration is irrevocable. The office of the Vice Chancellor for Academic Affairs will maintain a list of those institutions with which TCU has a formal agreement of institutional affiliation. The Study Abroad Coordinator will assist students in making arrangement for foreign study.

Credit by Examination. Students may earn academic credit for university-level learning by taking an examination in the appropriate area. Credit granted usually can be used to satisfy specific and general degree requirements. Credit by examination will not be awarded after the student has completed 66 hours of college credit.

For the currently enrolled student, the following conditions apply:

1. The approval of the academic dean must be obtained before taking CLEP or other recognized examinations for credit.
2. Credit by examination will not be awarded for a prerequisite course if credit has been earned in an upper division course.
3. Credit earned by examination is not assigned a letter grade, and is not counted toward special recognition or honors.
4. Duplicate credit is not allowed by enrolling in and completing a course for which credit was earned by examination.
5. Credit may be earned through selected CLEP General and Subject Examinations, College Board Achievement Test in Foreign Languages, and through locally constructed examinations.

For the entering student, the following conditions apply:

1. TCU grants credit in some subject areas through the following standardized examination programs: College Board Advanced Placement (AP); College Level Examination Program (CLEP); College Board Achievement Tests in Foreign Languages (ACH); International Baccalaureate (IB).
2. Credit may be obtained through the following institutional examinations: Locally constructed examinations in nursing; Conference examinations in music; Audition examination in ballet and/or modern dance; Certain non-U.S. Advance Level National Examinations.
3. Credit by examination awarded at another college or university will be honored by TCU if it is based on the same test(s) and minimum scores required at TCU.
4. Credit in English Composition earned by examination will be honored if it appears on an official college transcript.

5. A student whose native language is not English may satisfy the foreign language requirement for the B.A. degree by demonstrating proficiency in English through a specified score on TOEFL (Test of English as a Foreign Language). Although the language requirement will be satisfied, no semester hour credit will be awarded.

The Credit by Examination procedures are reviewed and updated annually. The current brochure, Credit by Exam, is available in the Office of Admissions, Sadler Hall Room 112.

Credit for Military Service. The University follows, with limitations, the recommendations of the American Council on Education as published in the Guide to the Evaluation of Educational Experiences in the Armed Forces in granting credit for military service schools. At a minimum, the following limitation applies:

Courses must be in the "baccalaureate/associate degree category" as defined by the ACE guide. This precludes acceptance of vocational, technical or certificate category courses, or military occupational specialties or job experience.

For consideration of credit for military service schools, the applicant may submit the following military records:

1. a certified original of the DD Form 295, or
2. a copy of the DD Form 214, or
3. course completion certificates.

The Office of the Registrar will assist persons eligible for veterans educational assistance benefits.

Credit for Nonresidential Course Work. As a general rule, TCU does not accept nonresidential courses taken prior to enrollment at TCU. However, a student may petition the appropriate academic dean to grant credit. Nonresidential courses taken while a student is in residence at TCU require prior written permission of the appropriate dean if the courses are to be applied toward a TCU degree.

Academic Load

The student should regularly consult with his/her academic advisor, but the student must know the academic requirements of his/her degree program and plan accordingly for a timely graduation. After consultation with the academic advisor the student will select the appropriate courses and number of credit hours to be taken each semester. Decisions regarding the number of hours to be taken and class scheduling will differ among students based upon many variables, e.g., academic preparedness and commitments to out-of-class activities. The University's web-based registration allows a student to register for up to 18 semester hours. The student seeking to register for more than 18 hours must do so in the Registrar's Office. Students enrolled through the Office of Extended Education must obtain approval of the director to register for more than 7 semester hours.

Student Classification

A student's classification is determined by the amount of credit earned or the degree for which the student is a candidate, as shown below:

Freshman - 0-23 semester hours

Sophomore - 24-53 semester hours

Junior - 54-83 semester hours

Senior - 84 and above semester hours

Graduate - Student enrolled for graduate study or in Brite Divinity School

Post Graduate - Student who possesses a baccalaureate degree but is not pursuing an advanced degree program

Special-Unclassified

Interpretation of Course Abbreviations

Each course is assigned a five-digit number. The first digit indicates the level (year) at which the course is offered; the second, third and fourth digits distinguish one course from another within the same department; the fifth digit reflects the amount of semester hour credit assigned to the course. In indicating the level or year of the course, 0 is used for subfreshman; 1 for freshman; 2 for sophomore; 3 for junior; 4 for senior; 5 for senior-graduate; and 6, 7, 8 and 9 for graduate.

The fifth digit shows semester hour credit with one exception-zero is assigned those courses which include one or more of the following features: noncredit; credit value includes a fraction; the course has a variable credit value which is determined at the time of enrollment on an individual basis.

Thus the course, "English 10803" (or ENGL "10803") is a freshman level course (first digit) which carries 3 semester hours of credit (fifth digit). The three middle digits (second, third and fourth) identify it as a specific course in the English Department.

When the term "advanced courses" is used, it refers to those of junior rank (30000 level) or higher.

In designating courses, departments use the four-letter subject code (such as "ENGL" for English) that has been devised for web-based registration.

The codes are to be interpreted as follows:

ACCT - Accounting

AEST - Aerospace Studies

ANTH - Anthropology

ART - Art

BALT - Ballet

BIOL - Biology

BUAD - Business Administration

CHEM - Chemistry

CHIN - Chinese

CISC - Computer Information Science

COSC - Computer Science

COSD - Communication Sciences & Disorders

CRJU - Criminal Justice

DEMT - Design, Merchandising, & Textiles

DESC - Decision Science

EBUS - Electronic Business

ECON - Economics

EDEC - Child Studies

EDEL - Elementary Education

EDRE - Language Studies

EDSE - Secondary Education

EDSP - Exceptional Students

EDUC - General Education

ENFL - English as a Foreign Language

ENGL - English

ENGR - Engineering

FINA - Finance

FNRT - Fine Arts Interdisciplinary

FREN - French

GEOG - Geography

GEOL - Geology

GERM - German

GREE - Greek

HCOL - Honors Colloquia

HHIT - Honors Intellectual Traditions

HIST - History

HLTH - Health Education

HNRS - Honors: Origins & Images

HSPR - Honors: Special Problems

ITAL - Italian

JAPN - Japanese

JOUR - Journalism

KINE - Kinesiology

LATI - Latin

LAST - Latin American Studies

MANA - Management

MARK - Marketing

MATH - Mathematics

MISC - Military Science

MODA - Modern Dance

MUSI - Music

MUSP - Music Performance

NTDT - Nutritional Sciences

NURS - Nursing

PEAC - PE Activity Courses

PHIL - Philosophy

PHYS - Physics & Astronomy

POSC - Political Science

PSYC - Psychology

RAMA - Ranch Management

RELI - Religion

RUSS - Russian

RTVF - Radio-TV-Film

SOCI - Sociology

SOWO - Social Work

SPAN - Spanish

SPCO - Speech Communication

THEA - Theatre

WOST - Women's Studies

Grade Reports

Grades are reported to students at the end of each semester and summer term. Reports will also be made at mid-semester on undergraduate students who are doing unsatisfactory work in one or more subjects. Unsatisfactory shall be defined as "D" or "F" work. Mid-semester reports of unsatisfactory work are not made a part of the official university transcript.

Academic Conduct Policy

Information pertaining to the Academic Conduct Policy may be found in the Student Services section of this Bulletin. Students may obtain a complete copy of the policy statement in the offices of all academic deans, the Dean of Campus Life, the Vice Chancellor for Academic Affairs, and the Vice Chancellor for Student Affairs.

Academic Standing and Satisfactory Academic Progress

A student is considered to be in "Acceptable Academic Standing" if the student is eligible to continue his/her enrollment at TCU. Verification of this status is made by the Registrar.

A student is considered to be making "Satisfactory Academic Progress" when the student is in Acceptable Academic Standing and course work is being completed (1) that leads to the degree being sought, (2) in a timely manner, and (3) which is consistent with reasonable expectations for individual circumstances. Satisfactory Academic Progress is determined by the academic dean of the major.

Dismissal, Suspension, or Expulsion for the Lack of Academic Progress, Disruptive Behavior, or Professional Misconduct

A faculty member has both the authority and the responsibility to dismiss a student from any educational setting for which he/she is responsible if, in the faculty member's judgment, the student's behavior or lack of preparation is detrimental to the educational experience of others or could create unsafe conditions. Any such dismissal is reported, in writing, to his/her academic dean as soon as possible after the event.

Students may be withdrawn with a grade of "F" from individual courses for lack of academic progress, disruptive or unsafe behavior, or lack of preparation upon the recommendation of the faculty member and the approval of the appropriate academic dean.

Students may be suspended or expelled from the University at the discretion of the appropriate academic dean at such times as the student's performance of behavior clearly demonstrates that the student is not interested in, or making acceptable academic progress. Likewise, an academic dean has both the authority and the responsibility to take action, including dismissal, suspension, or expulsion from a program of study or the University itself, if a student's conduct is determined to be contrary to the professional and ethical standards of a field. If a student is suspended or expelled from the University, a grade of "F" or a designation of "Q" will be recorded for each course in progress as determined appropriate by the dean, and the transcript will note suspension or expulsion.

Students may appeal by contacting the chair of the Academic Appeals Committee.

Attendance and Absence Policies

The University attendance policy is that regular and punctual class attendance is essential and no assigned work is excused because of absence, no matter what the cause. Records of class attendance are kept by faculty. When an accumulation of absences reaches the point of endangering a student's academic status, the faculty member should report this situation to the Campus Life Office. An instructor should not assume that continued absence from class indicates an official withdrawal until notified by the Registrar.

When a student is absent to represent the University (as in athletics, chorus, band, national or state meetings of organizations represented at TCU), then official University absence may be granted by the Campus Life Office. Faculty/staff who wish to have an activity sanctioned for official University absence status must submit the names of all students, including date and hours absent from campus, to the Campus Life Office no later than one week prior to the date of the activity. The Dean of Campus Life reviews and approves the request as appropriate and forwards the names for publication and distribution to all faculty through the departmental/college offices. Faculty are required to permit students to make up work missed because of official University absences.

Serious illness or family emergencies may be verified by the Campus Life Office but are not considered official absences. Illnesses that will be verified are those involving hospitalization, or catastrophic accidents or illness. When a serious illness or emergency has been verified, each instructor should assist the student to make up any missed work. Time lost through such absences should NOT prejudice class standing. Faculty members should specify the appropriate time frame for making up missed work.

Students who miss an instructional experience are expected to meet with faculty to discuss their absence as soon as possible. Faculty may permit a student to make up missed work or assess a penalty for class absence.

Family Educational Rights and Privacy Act

This Federal law states (a) that a written institutional policy must be established and (b) that a statement of adopted procedures covering the privacy rights of students be made available. The law provides that the institution maintain the confidentiality of student education records.

The University accords all the rights under the law to its students. Students wishing access to a complete copy of the regulation and the University policy governing their educational records may do so at these locations: Vice Chancellor for Academic Affairs, Sadler Hall Room 302; Vice Chancellor for Student Affairs, Sadler Hall Room 310; Dean of Campus Life, Sadler Hall Room 101; Registrar, Sadler Hall Room 17; or Scholarships and Financial Aid, Sadler Hall Room 108.

There are six rights, which are summarized here:

1. The Right to be Informed. The University will give the students an annual notice of their rights and where copies of the policy may be reviewed.
2. The Right to Inspect. Students may inspect information contained in their educational record provided they make a written request to the custodian of the records. The request must be granted no later than 45 days from the receipt of the request.

3. Right to Limited Control of Release. No one outside the institution shall have access to, nor will the University disclose identifiable information from the educational records without written consent of the students, except directory information or other exceptions permitted by the Act, which the student has not refused to permit the University to disclose.

4. Right to Request a Change. Students may request that the record be amended if they feel the information is inaccurate, misleading, or in violation of the rights of privacy. The University will decide whether to change the record. The student may place a rebuttal in the record.

5. Right to a Hearing. If the University chooses not to amend the record, the student may request a hearing. The request must be in writing to the Vice Chancellor for Student Affairs or the Vice Chancellor for Academic Affairs. The student will be notified of the time, date, and place of the hearing.

6. Right to Report Alleged Violations. Students who feel their rights have been abridged may file complaints with the Family Educational Rights and Privacy Act Office, Department of Education, Washington, D.C. 20201.

At its discretion TCU may provide directory information in accordance with the provisions of the Act to include: student name, address, telephone number, church affiliation or preference, name of parents of dependent students, date and place of birth, major field of study, dates of attendance, degrees and awards received, the most recent previous educational agency or institution attended by the student, participation in officially recognized activities and sports, and weight and height of members of athletic teams. It is also permissible for the University to release information from a student's educational record to a parent, provided the student is a "dependent" as defined in Section 152 of the Internal Revenue Code of 1954. Students may withhold directory information by notifying the Registrar in writing. Requests for nondisclosure will be honored for only one academic year; therefore, authorization to withhold directory information must be filed annually in the Office of the Registrar.

Transcripts of Academic Records

Students and former students may request official transcripts of their TCU academic record from the Office of the Registrar. While official copies of high school records and transfer credits from schools other than TCU must be requested from the institutions where the work was taken, unofficial copies may be requested from TCU. All transcript requests must be made by the student and must be in writing. Adequate notice, normally one week, is required for transcript processing. Transcripts cost \$2.00 each. Transcripts will not be released unless the student has satisfied all financial obligations to the University.

Affirmative Action

If there are matters having to do with discrimination, or matters concerning access for the handicapped, please notify the Affirmative Action Officer, Dr. Cornell Thomas, Sadler Hall, Room 325, Extension 7796.

Academic Probation and Suspension

All undergraduate students are required to meet certain academic standards. Academic probation/suspension policies are designed to provide careful supervision of the program of study and progress of the student. Failure to meet standards will place students on academic probation or academic suspension. The minimum satisfactory record at TCU for normal progress and graduation is an overall "C" average on all work taken at TCU.

Each semester's grades are reviewed to determine attainment of academic standards. Students are required to maintain academic progress according to the standards set forth below. Failure to meet these expectations will result in the following action:

Academic Warning. Students will be placed on Academic Warning if they have attempted (i.e., received a grade) at least 9 semester hours but fewer than 18 total semester hours at any accredited institution and their cumulative TCU grade point average falls below 2.00. Academic Warning will not become a part of the official transcript. Students will be placed on Academic Warning only once during their matriculation at TCU.

Academic Probation. Students who fail to achieve:

A. a 2.00 cumulative TCU grade point average in any semester of attendance following Academic Warning will be placed on Academic Probation, or,

B. a 2.00 cumulative TCU grade point average in any semester of attendance will be placed on Academic Probation if they have attempted 18 or more cumulative semester hours at any accredited institution.

Academic Probation will become part of their official transcript.

Academic Suspension. Students who have been placed on Academic Probation at any time during their matriculation at TCU will be subject to Academic Suspension if they fail to maintain a 2.00 cumulative grade point average at TCU in any subsequent semester of attendance.

Students who are subject to Academic Suspension will have their academic progress reviewed by their academic dean and will be notified in writing as to the Academic Suspension decision and any special conditions for re-enrollment. A student's suspension may be for a single semester or for a full calendar year and may or may not include summer terms, at the discretion of the dean of the student's major. A second suspension will be for a minimum of a full calendar year.

Following suspension the student must apply for re-enrollment to the University. Re-enrollment requires the approval of the academic dean of the student's intended major. Credit earned from another college or university

during a period of academic-related suspension may not be transferred to TCU.

Academic Suspension will become part of their official transcript.

Students Returning to the University Following Suspension. A student re-enrolled in the University following a period of suspension is automatically on probation.

Requirements for Graduation

The University requirements for graduation (e.g., University Curriculum, total credits and residence requirements) specified in the Undergraduate Studies Bulletin in effect at the time the student first enrolls at TCU as a degree-seeking student will be those required for graduation for a period of time not to exceed 6 (six) years. A year is defined as the 12-month period following the date of initial enrollment.

The major, college and specific degree requirements for graduation in effect when the student formally declares a specific major (or his/her intent to pursue a specific major) will be those required for graduation for a period of time not to exceed 6 (six) years from the time of declaration of major.

After 6 (six) years, requirements for graduation will be those specified in the Bulletin in effect at that time. A student may graduate under the requirements of a subsequent Bulletin, but he/she must satisfy all the requirements of the Bulletin chosen. When a student pursues a degree on a part-time basis, his/her enrollment pattern at TCU is a factor the academic dean may consider to determine whether an exception will be made to the 6-year rule.

The University faculty expects a bachelor's degree from TCU to indicate both a breadth of knowledge and comparative mastery of some field. Thus the curricula for all bachelor's degrees are built around:

1. Study in specified subject areas as stated in the University Curriculum, and
2. Concentration upon a combination of related courses as outlined by the department, school or college in which study is emphasized, and
3. In some cases, "free electives" or other courses through which educational goals can be reached.

Since an important goal of the University is to help its students learn the ways and habits of articulate thought, the rationale for the University Curriculum is the belief that there exists an identifiable body of studies central to achieving that goal. All bachelor's degree plans include these requirements. Each school and college may require some variation, and students should refer to the specific degree requirements found in the school and college sections of this bulletin.

University Curriculum Requirements (UCR)

Texas Christian University seeks to provide undergraduate instruction that will help its students (1) understand the social and physical world, (2) appreciate our history and cultures, (3) develop the capacity for rational choices, creative thinking and expression, and responsible citizenship, (4) cultivate the skills needed for the lifelong pursuit of learning. To serve these objectives the University Curriculum Requirements include Foundations-requirements in written expression and in mathematics; and Explorations -requirements in specified areas of human knowledge and experience.

I. FOUNDATIONS: 9 credit hours

The Foundations requirements, which include courses to refine and enhance skills in critical reading, written composition, and mathematics, allow students beginning the undergraduate curriculum to increase their proficiency in these essential skills.

A. Writing Requirement - 6 credit hours, and the Writing Emphasis Experience

1. Writing Workshop - 6 credit hours

This requirement is to be met by courses designated "Writing Workshop," with no more than three of these hours in freshman-level study. Writing Workshop courses assume the student's successful completion of four units of high school English.

This requirement is to be met by at least one course in various modes of composition, including analytical writing and research techniques and writing. Both writing courses are to include a reading component providing composition models of suitable kinds. Student writing in these courses is expected to increase competence in grammar, mechanics, and other conventions customary in written discourse.

AP or CLEP credit may satisfy up to 6 hours of the writing requirement.

2. Writing Emphasis Experience

To allow juniors and seniors to increase their writing skills, the University Curriculum includes a writing emphasis component. This requirement, which ordinarily should not increase the credit hours required by the University Curriculum, is to be satisfied by two upper-division courses (three credit hours for each) with a "writing emphasis" designation. Because any academic unit of the University may offer courses with a writing emphasis, courses satisfying other baccalaureate degree requirements may also meet the writing emphasis requirement of the University Curriculum. Writing should occur throughout the course and total a minimum of 2500 words.

B. Mathematics - 3 credit hours

This requirement is to be satisfied by Department of Mathematics courses at or above the freshman level. Appropriate courses assume the student's successful completion of three units of high school mathematics: two in algebra and one in geometry.

AP or CLEP credit may satisfy this requirement.

II. EXPLORATIONS: 36 credit hours

The Explorations requirements assure that all baccalaureate candidates encounter certain broad areas of knowledge. Through this experience, the student will gain knowledge and perspectives by studying various domains of human knowledge and experience.

The Explorations requirements allow no more than 6 credit hours from courses in a single department or in that department's cross-listed courses. This limitation applies regardless of the UCR groups in which the department's course offerings appear. Approved integrative courses are excluded from this restriction.

Satisfactory fulfillment of an Explorations section requires completion of a prescribed minimum number of credit hours and not more than a stated maximum number of credit hours. Minimum requirements of the four sections total thirty credit hours. The additional 6 credit hours may be selected from any of the four sections but the credit hour maximum of a section may not be exceeded.

A. Physical and Life Sciences - minimum of 6 credit hours, maximum of 9 credit hours

(NOTE: Courses in mathematics and computer science do not satisfy this requirement.)

6 credit hours must be in laboratory courses such as those offered in biology, chemistry, geology, physics, psychology.

The purpose of the requirement is to include study in scientific disciplines in which observation, deduction, and analytical reasoning are essential methods. The requirement also ensures that students gain an understanding of scientific discoveries achieved by such methods.

Courses meeting this requirement involve observing experimental parameters, recording and interpreting such observations, and drawing conclusions based on appropriate theoretical frameworks. The experimental dimension is to include appropriate mathematical concepts and applications. Students are also required to demonstrate their ability to present such material in a narrative form.

B. Social Sciences - minimum of 6 credit hours, maximum of 9 credit hours

The 6 hour minimum is to be satisfied by courses using the methods of one or more of the social sciences. The courses customarily will include study of institutions as they affect individuals and groups. The approach to such study is through disciplines such as economics, political science, and sociology.

C. Cultural Heritage - minimum of 12 credit hours, maximum of 15 credit hours

The minimum must be distributed as specified below. The additional 3 hours can be in any subsection of Section C. Students are encouraged to take courses which explore cultures other than their own.

1. Religion-Studies - minimum of 3 credit hours. Courses satisfying this requirement examine the role of religion in human culture, with this examination directed to a single religion or to a comparative consideration of major religions. These courses include appropriate historical study as well as texts important to the religions.
2. Historical Studies - minimum of 3 credit hours. The minimum is to be met by a 3-credit-hour course in U.S. historical studies. Courses meeting this requirement make evident the methods of history. Such courses may be general in their subject matter or specific or topical in focus, but are to encourage the development of a critical and evaluative attitude toward historical texts and sources.
3. Critical Inquiry - minimum of 3 credit hours. Courses satisfying this requirement are primarily critical/evaluative in approach. This approach can be applied to modes of inquiry, to methods in various disciplines, or to public issues and contemporary views. These courses make evident the individual's responsibility for making informed decisions.
4. Fine Arts - minimum of 3 credit hours. The requirement is to be met by critical and/or historical courses studying one or more of the fine arts (e.g., theater, music, visual arts). Performance courses do not satisfy this requirement.

D. Language and Oral Communication/Literature - minimum of 6 credit hours, maximum of 9 credit hours

If foreign language study is used to meet this requirement, the 6-credit-hour minimum must be in the same language. The language requirement can be satisfied by AP or CLEP credit.

Students electing the oral communication/literature option are to meet the minimum in both of these disciplines.

1. Foreign Language - minimum of 6 credit hours. Foreign Language courses at or above the freshman level satisfy this requirement.
2. Oral Communication and Literature - minimum of 6 credit hours.
 - a. Oral Communication - minimum of 3 credit hours. This requirement is satisfied by courses directed to developing

skills in oral communication; to training in clear, logical, and persuasive communication appropriate in various contexts; and to evaluating such communication.

b. Literature - minimum of 3 credit hours. Courses satisfying this requirement enable students to learn to analyze and criticize literary texts. These courses are to include appropriate historical, biographical, and ideological materials, and to be developed around a single writer or group of writers, a period, a literary form or genre, and/or critical theories by which the same works are examined by various means.

III. HEALTH CONCEPTS/PHYSICAL EDUCATION: 2 credit hours

One credit hour of this requirement must be in a course presenting health concepts and strategies important for continuing participation in a sport or exercise. Such one-hour courses may also include instruction in mind-body interaction, stress management, nutrition, and physical exercise as important to health maintenance.

The second credit hour of this requirement may be satisfied by an additional health concepts course. If the second credit hour is satisfied by an activity course, the following substitutions are allowed:

1. Veterans of the Armed Forces may substitute 1 semester hour of academic credit for a Physical Education activity course.
2. ROTC courses in which the student participates in leadership laboratory may be substituted for a Physical Education activity course.
3. Students who participate in the Marching Band or in a Dance technique course may substitute these for Physical Education activity.
4. Students with physical disabilities may substitute 1 hour of academic credit for a Physical Education activity course. To qualify, students must obtain approval of the University physician.

Successfully completed Physical Education courses presented from institutions which grant no credit, or less than one credit hour for a semester course, may be used to fulfill TCU requirements. However, students who receive course credit will receive no more semester hour credit than was allowed by the issuing institution.

NOTES:

1. 6 hours of UCR credits in a given department may be applied to other baccalaureate requirements in that department such as those for major, minor, teaching specialty, etc.
2. Students transferring to TCU must complete a minimum of 6 hours in Writing Emphasis courses and also satisfy the Critical Inquiry requirement at TCU.
3. No more than 8 semester hours of Physical Education activity courses may be applied toward graduation requirements.

Total Credits and Residence Requirements

Beyond the curricular requirements, each candidate for a bachelor's degree is required to:

1. Successfully complete at least 124 semester hours of credit.
2. Earn, under the point system of the University, a cumulative GPA of at least 2.0 in all work attempted at TCU (including courses attempted during foreign study which are designated by the student to fulfill residency requirements), earn a cumulative GPA of at least 2.0 in all courses attempted in the department of the major at TCU (including courses attempted during foreign study which are designated by the student to fulfill residency requirements), and earn a cumulative GPA of at least 2.0 in all courses applied to the minor (including courses attempted during foreign study which are designated by the student to fulfill residency requirements). Some major and minor programs may require a GPA greater than 2.0.
3. Do residence work in this university earning at least 58 semester hours applicable to the degree program in addition to any number accepted from other schools. **To be eligible for graduation with honors and to receive certain awards and recognitions, additional hours may be required (see Honors and Recognitions section).** The last 30 semester hours for the degree must be taken at TCU except as provided for in certain degree programs.
4. Successfully complete at TCU at least 42 of the total hours required for graduation in advanced courses numbered 3000 or above.
5. Successfully complete at TCU at least 12 semester hours of advanced work in the field of the major and at least 6 semester hours of advanced work in the field of the minor.

Declaration of an Academic Major

The premajor option is intended to provide students with more time to explore academic majors. Students may not remain nor declare as premajors after they have earned 54 semester hours of credit. The premajor student must formally declare a major by filing the "Change of Major" form with the Office of the Registrar.

Multiple Majors

Although students are encouraged to seek a broad educational experience at TCU, the approval to earn multiple majors is not automatic. In some cases, receiving multiple majors may require actually earning multiple degrees. Because the requirements of multiple majors and multiple degrees are complex, students wishing to pursue more than one major should investigate major and degree requirements early in their career at TCU (i.e., refer to the appropriate school/college section of this Bulletin which delineates the requirements for multiple majors and degrees). To pursue multiple majors or degrees, written permission from the academic dean responsible for each major or degree is required and must be filed with the Registrar's office.

Additional Bachelor's Degrees

A TCU student who wishes to pursue multiple bachelor's degrees concurrently must (a) declare his/her intent and file all degree plans prior to completing the last 15 hours of the first degree; (b) fulfill all specific major, college/school and University degree requirements in force at the time of his/her initial enrollment (subject to the 6-year limitation); and (c) successfully complete 30 hours on each bachelor's degree that did not apply toward any of the other bachelor's degrees. A minimum of 154 cumulative semester hours is required to earn two bachelor's degrees.

To return to TCU to earn an additional bachelor's degree, an applicant holding a bachelor's degree from TCU must apply to pursue a specific degree and, if admitted, must successfully complete 30 semester hours at TCU which did not apply to the first degree and fulfill all specific major, college/school and University degree requirements in force at the time of enrollment at TCU for the additional degree. A minimum of 154 cumulative semester hours is required to earn two bachelor's degrees.

An applicant holding a bachelor's degree from another accredited institution must be accepted to pursue a specific degree, successfully complete a minimum of 58 semester hours in residence at TCU, and fulfill all specific major, college/school and University degree requirements in force at the time of enrollment at TCU for the additional degree.

Courses applied toward a previously earned bachelor's degree will be evaluated on an individual basis to determine their applicability to University degree requirements.

Degree Plan

The undergraduate should make a formal request for a degree plan from the Office of the Dean of the college or school in which the degree objective is offered. The request should be made when the student has completed 60 semester hours unless the school or college specifies an earlier time in its section of the bulletin. After a degree is awarded, no subsequent work may be applied to that degree.

Student's Responsibility

Faculty, academic advisors and deans are available to help students understand and meet academic requirements for a degree, but the students themselves are responsible for understanding and fulfilling them. If requirements are not satisfied, the degree will be withheld pending adequate fulfillment. Thus it is essential that each student become familiar with all requirements and remain currently informed throughout the college career.

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Faculty Directory

[AddRan College of Humanities and Social Sciences](#)
[College of Communication](#)
[College of Fine Arts](#)
[College of Health and Human Sciences](#)
[College of Science and Engineering](#)
[M. J. Neeley School of Business](#)
[School of Education](#)
[Ranch Management Program](#)
[Emeritus Faculty](#)

AddRan College of Humanities and Social Sciences

Mary L. Volcansek, Dean
Michael R. Butler, Associate Dean
Ida N. Hernandez, Assistant to the Dean

Aerospace Studies Faculty

MAJ JOHN T. FOLMAR, *Assistant Professor*. B.S. (Auburn), 1987; M.B.A. (Georgia College), 1995. Since 1999.
CAPT SHAUN C. HAMBLIN, *Assistant Professor*. B.A. (Texas-Arlington), 1996; M.A. (Southwest Texas State), 2001. Since 2001.
CAPT RANDY M. ROBINSON, *Assistant Professor*. B.S. (Arkansas), 1991; M.S. (North Dakota), 1999. Since 1999.
LT. COL. GREGORY L. WALKER, *Professor and Chair of Department*. B.A. (Eastern Illinois), 1977; M.A. (Troy State), 1988. Since 2000.

Design, Merchandising and Textiles

LARK F. CALDWELL, *Associate Professor*. B.S. (Baylor), 1977; M.Ed. (Sam Houston State), 1979; Ph.D. (Texas Woman's U.), 1986. Since 1987.
JANACE E. BUBONIA-CLARKE, *Assistant Professor*. B.S. (State University of New York - Oneonta), 1991; M.A. (Texas Woman's U.), 1994; Ph.D. (Ibid.), 1998. Since 2000.
SALLY L. FORTENBERRY, *Associate Professor and Chair of the Department*. B.S. (Carson-Newman), 1980; M.S. (Texas Woman's U.), 1981; Ph.D. (Ibid.), 1985. Since 1989.
JANE KOLAR KUCKO, *Associate Professor*. B.S. (Nebraska), 1981; M.S. (Oklahoma State), 1983. Since 1984.
FREDERICK DANIEL OBERKIRCHER III, *Associate Professor*. B.S. (Pennsylvania State), 1968; M.S. (Ibid.), 1970, Since 1974.
JOSEPH SELF, *Assistant Professor*. B.S. Architecture (University of Texas - Austin), 1987; M. Architecture (Rice University), 1989, Since 2000.
POLLY P. STARR, *Part-time Instructor*. B.S. (Texas Wesleyan), 1967; M.S. (North Texas), 1987. Since 1987.

Economics

CHARLES McVEY BECKER, *Associate Professor*. B.A. (Arizona), 1960; M.A. (Ibid.), 1962; Ph. D. (Ibid.), 1966; C.F.A. (Institute of Chartered Financial Analysts), 1973. Since 1967.
MICHAEL R. BUTLER, *Associate Professor*. B.A. (Emory), 1980; M.A. (Georgia State), 1982; Ph.D. (North Carolina), 1986. Since 1986.
DAWN C. ELLIOTT, *Assistant Professor*. B.A. (University of the West Indies), 1988; M.A. (Florida Atlantic), 1990; Ph.D. (New School for Social Research), 1994. Since 1995.
ROBERT F. GARNETT JR., *Instructor*. B.A. (William and Mary), 1984; Ph.D. (Massachusetts), 1994. Since 1996.
JOHN T. HARVEY, *Professor*. B.A. (Tennessee), 1983; M.A. (Ibid.), 1986; Ph.D. (Ibid.), 1987. Since 1987.
KRISTIN KLOPFENSTEIN *Assistant Professor*. B.A. (George Washington), 1994; M.A. (Colorado), 1998; Ph.D. (Colorado), 1999. Since 1999.
JOHN R. LOVETT, *Instructor*. B.A. (Southwest Missouri State), 1988; M.A. (Colorado), 1993; Ph.D. (Colorado), 1996. Since 2000.

EDWARD M. McNERTNEY, *Associate Professor and Chair of the Department*. B.A. (Bloomsburg State), 1969; M.A. (Bowling Green State), 1970; Ph.D. (Massachusetts), 1977. Since 1977.

STEPHEN F. QUINN, *Assistant Professor*. B.A. (Rockford), 1988; M.S. (Illinois), 1994; Ph.D. (Illinois), 1994. Since 1995.

English

BONNIE BLACKWELL, *Assistant Professor*. B.A. (Texas-Austin), 1990; M.A. (Cornell), 1996; Ph.D. (Ibid.), 1998. Since 1998.

CARA DIACONOFF, *Lecturer*. B.A. (Oberlin), 1987; M.A. (Wisconsin-Madison), 1990; M.F.A. (Indiana), 1995. Since 2000.

NEIL EASTERBROOK, *Associate Professor and Director of Graduate Studies*. B.A. (Ithaca), 1979; M.A.T. (Colgate), 1981; M.A. (SUNY-Buffalo), 1986; Ph.D. (Ibid.), 1988. Since 1990.

RICHARD L. ENOS, *Professor and Holder of the Lillian Radford Chair of Rhetoric and Composition*. B.A. (California State), 1969; M.A. (Indiana), 1970; Ph.D. (Ibid.), 1973. Since 1995.

BOB J. FRYE, *Professor*. B.A. (Wayland Baptist), 1961; M.A. (Tennessee), 1964; Ph.D. (Ibid.), 1966. Since 1966.

THERESA GAUL, *Assistant Professor*. B.A. (St. Catherine), 1990; M.A. (Wisconsin-Madison), 1992; Ph.D. (Ibid.), 1998. Since 1999.

ANN L. GEORGE, *Assistant Professor*. B.A. (Michigan State), 1979; M.F.A. (North Carolina-Greensboro), 1981; Ph.D. (Pennsylvania State), 1997. Since 1997.

SHARON M. HARRIS, *Lorraine Sherley Professor of Literature*. B.A. (Portland), 1983; M.A. (Ibid.), 1985; Ph.D. (Washington), 1988. Since 2000.

CHARLOTTE HOGG, *Assistant Professor*. B.A. (Nebraska), 1993; M.A. (Oregon State), 1996; Ph.D. (Nebraska), 2001. Since 2001.

LINDA K. HUGHES, *Addie Levy Professor of Literature*. B.A. (Wichita), 1970; M.A. (Missouri), 1971; Ph.D. (Ibid.), 1976. Since 1988.

SIMON JOYCE, *Assistant Professor*. B.A. (Sussex), 1985; M.A. (Ibid.), 1987; Ph.D. (SUNY-Buffalo), 1993. Since 1997.

MATTHEW JUGE, *Instructor*. B.A. (Virginia), 1992; M.A. (California-Berkeley), 1994; Ph.D. Cand. (Ibid.). Since 1999.

DAVID B. KUHNE, *Instructional Staff Member in English and the Writing Center*. B.A. (Texas-Austin), 1974; M.F.A. (Arkansas), 1982; Ph.D. (TCU), 1997. Since 1998.

CARRIE SHIVELY LEVERENZ, *Associate Professor and Director of Composition*. B.A. (Mt. Vernon Nazarene), 1981; M.A. (St. Bonaventure), 1985; Ph.D. (Ohio State), 1994. Since 2000.

MARGARET-ROSE MAREK, *Instructional Staff Member in English and the Writing Center*. B.S. (Illinois), 1964; M.A. (Creighton), 1970. Since 1988.

AMY NOVAK, *Instructor*. B.A. (Washington), 1989; M.A. (San Francisco State), 1993; Ph.D. (Oregon), 1998. Since 1999.

THOMAS PFAU, *Lecturer*. B.A. (Wesleyan), 1982; M.A. (Columbia), 1984; Ph.D. (Houston), 2000. Since 2000.

RONALD PITCOCK, *Assistant Professor*. A.B. (Wabash), 1991; M.A. (Indiana State), 1993; Ph.D. (Kentucky), 2001. Since 2001.

STEPHEN D. POWELL, *Assistant Professor*. B.A. (Oberlin), 1989; M.A. (Indiana), 1990; Ph.D. (Toronto), 1995. Since 1996.

JENNIFER PUTZI, *Lecturer*. B.A. (Augustana), 1992; M.A. (Nebraska), 1994; Ph.D. (Ibid.), 2000. Since 2000.

MARIE MADELINE SCHEIN, *Instructional Staff Member in English and the Writing Center*. B.A. (Paul Valery, France), 1981; M.A., English (Ibid.), 1982; M.A., French (Colorado), 1985; Ph.D. (North Texas), 1994. Since 1999.

ALAN SHEPARD, *Associate Professor and Department Chair*. B.A. (St. Olaf), 1983; Ph.D. (Virginia), 1990. Since 1990.

STEVEN E. SHERWOOD, *Instructional Staff Member in English and the Writing Center*. B.S. (Colorado), 1977; M.F.A. (Montana), 1987. Since 1988.

ELIZABETH SPILLER, *Associate Professor*. B.A. (Amherst), 1987; M.A. (Harvard), 1990; Ph.D. (Ibid.), 1995. Since 2000.

KAREN E. STEELE, *Assistant Professor*. B.A. (St. Olaf), 1988; M.A. (Texas), 1992; Ph.D. (Ibid.), 1996. Since 1996.

AUSTRALIA TARVER, *Associate Professor and Director of Undergraduate Studies*. B.A. (Fisk), 1964; M.A. (Ohio),

1965; Ph.D. (Iowa), 1978. Since 1995.

GARY TATE, *Cecil H. and Ida Green Distinguished Emeritus Tutor*. B.A. (Baker), 1952; M.A. (New Mexico), 1956; Ph.D. (Ibid.), 1958. Since 1971.

DAVID VANDERWERKEN, *Professor and acting department chair 2201-02*. B.A. (Colgate), 1968; Ph.D. (Rice), 1973. Since 1971.

History

D. CLAYTON BROWN, *Professor and Chair of the Department*. B.A. (North Texas State), 1964; M.A. (Ibid.), 1965; Ph.D. (UCLA), 1970. Since 1971.

JAMES T. CHAMBERS, *Associate Professor*. B.A. (Memphis), 1965; M.A. (Illinois), 1967; Ph.D. (Ibid.), 1973. Since 1971.

DON M. COERVER, *Professor*. B.A. (Southern Methodist), 1964; M.A. (Ibid.), 1970; Ph.D. (Tulane), 1973. Since 1973.

BRUCE A. ELLEMAN, *Associate Professor*. B.A. (California-Berkeley), 1982; M.A. (Columbia), 1984; M.Sc. (London), 1985; M.Phil. (Columbia), 1987; Ph.D. (Ibid.), 1993. Since 1995.

MARK T. GILDERHUS, *Professor and Lyndon Baines Johnson Chair of History*. B.A. (Gustavus Adolphus College), 1963; M.A. (Nebraska), 1965; Ph.D. (Ibid.), 1968. Since 1997.

TODD M. KERSTETTER, *Assistant Professor*. B.A. (Duke), 1986; M.A. (Nebraska), 1992; Ph.D. (Ibid.), 1997. Since 2000.

KATHRYNE McDORMAN, *Associate Professor and Director of Honors Program*. B.A. (Kentucky), 1967; M.A. (North Carolina), 1969; Ph.D. (Vanderbilt), 1976. Since 1977.

JEFFREY ROET, *Instructor of Geography*. B.A. (State University of New York at Buffalo), 1973; M.A. (Northwestern University), 1977; Ph.D. (Northwestern University), 1982.

CLAIRE A. SANDERS, *Assistant Professor*. B.A. (Mount Holyoke), 1983; J.D. (North Carolina), 1986; M.A. (Ibid.), 1991; Ph.D. (Ibid.), 1996. Since 1998.

GENE A. SMITH, *Associate Professor*. B.A. (Auburn), 1984; M.A. (Ibid.), 1987; Ph.D. (Ibid.), 1991. Since 1994.

SARA SOHMER, *Instructor*. B.A. (Tennessee), 1966; M.A. (Wisconsin), 1967; Ph.D. (Hawaii), 1988. Since 1995.

KENNETH STEVENS, *Professor*. B.A. (Indiana), 1968; M.A. (Ibid.), 1974; Ph.D. (Ibid.), 1982. Since 1983.

BENJAMIN TILLMAN, *Assistant Professor of Geography*. B.S. (Brigham Young), 1993; M.S. (Brigham Young), 1994; Ph.D. (Louisiana State University), 1999.

R. LEE WOODWARD, *Professor and Neville G. Penrose Chair of Latin American Studies*. B.A. (Central Methodist College), 1955; M.A. (Tulane University), 1959; Ph.D. (Tulane University), 1962.

STEVEN E. WOODWORTH, *Associate Professor*. B.A. (Southern Illinois), 1982; Ph.D. (Rice), 1987. Since 1997.

Military Science

LT. COL. JAMES M. HOUSE, *Professor and Chair of the Department*. B.S. (Texas A & M University), 1979; M.A. (Webster University), 1992. Since 2000.

MAJ. JONATHAN B. NEPUTE, *Assistant Professor*. B.A. (University of Texas, San Antonio), 1985; M.A. (University of Phoenix), 1997. Since 2000.

CPT. DANIEL THIEBAUD, *Assistant Professor*. B.S. (Tarleton State University), 1989. Since 2000.

CPT. DOUGLAS OWENS, *Assistant Professor*. B.A. (Texas Christian University), 1991; Since 2000.

Modern Languages and Literatures

SHARON L. FAIRCHILD, *Associate Professor of French and Spanish*. B.A. (Wayne State), 1969; M.A. (Ibid.), 1975; Ph.D. (Ibid.), 1980. Since 1978.

PHILIP G. HADLOCK, *Assistant Professor*. B.A. (Michigan), 1991; M.A. (Pennsylvania), 1993; Ph.D. (Ibid.), 1997. Since 1998.

YUMIKO KEITGES, *Instructor of Japanese*. B.A. (Texas- Austin), 1985; M.A. (Ibid.), 1989. Since 1991.

JEAN KNECHT, *Assistant Professor of French and German and Chair of the Department*. Diplome, Humanites Greco-Latines (Athénée Royal de Huy, Belgium), 1954; Regent en Philologie Germanique (Ecole Normale Supérieure, Liege, Belgium), 1957. Since 1961.

WILLIAM E. POHL, *Assistant Professor of German*. B.A. (College of Idaho), 1962; M.A. (Michigan), 1965. Since 1967.

JEFFREY D. TODD, *Assistant Professor*. B.A. (Ashbury College), 1983; M.A. (Cincinnati), 1987; Ph.D. (Ibid.), 1997. Since 1997.

MIKE XU, *Assistant Professor*. B.A. (U. of Shanghai), 1983; M.Ed. (East Central U., Okla.), 1987; Ed.D. (Oklahoma State), 1990. Since 1998.

Philosophy

GREGG E. FRANZWA, *Professor and Chair of the Department*. B.S.C. (Santa Clara), 1967; M.B.A. (California-Berkeley), 1969; M.A. (San Francisco State), 1972; Ph.D. (Rochester), 1975. Since 1976.

RICHARD F. GALVIN, *Professor*. B.A. (Macalester), 1974; M.A. (California-Santa Barbara), 1980; Ph.D. (Ibid.), 1983. Since 1982.

BLAKE E. HESTIR, *Assistant Professor*. B.A. (TCU), 1988; M.A. (Florida State University), 1996; Ph.D., (Ibid.), 1998. Since 1998.

SPENCER K. WERTZ, *Professor*. B.A. (TCU), 1965; M.A. (Ibid.), 1966, Ph.D. (Oklahoma), 1970. Since 1969.

Political Science

RALPH G. CARTER, *Professor*. B.A. (Midwestern), 1974; M.A. (Ohio State), 1977; Ph.D. (Ibid.), 1980. Since 1982.

J. MICHAEL DODSON, *Professor*. B.A. (South Dakota), 1967; M.A. (New Mexico), 1969; Ph.D. (Indiana), 1974. Since 1973.

MANOCHEHR DORRAJ, *Professor*. B.A. (Texas), 1975; M.A. (Ibid.), 1979; Ph.D. (Ibid.), 1984. Since 1990.

JOANNE CONNOR GREEN, *Associate Professor*. B.S. (Buffalo), 1990; M.A. (Florida), 1992; Ph.D. (Ibid.), 1994. Since 1994.

DONALD W. JACKSON, *Herman Brown Professor*. B.A. (Southern Methodist), 1959; J.D. (Ibid.), 1962; M.A. (Wisconsin), 1969; Ph.D. (Ibid.), 1972. Since 1975.

CHARLES LOCKHART, *Professor*. B.A. (Kansas State), 1967; M.A. (SUNY Buffalo), 1969; Ph.D. (Ibid.), 1971. Since 1974.

VALERIE MARTINEZ-EBERS, *Associate Professor*. B.S. (North Texas), 1980; M.P.A. (Ibid.), 1983; Ph.D. (Ohio State), 1990. Since 1997.

JAMES W. RIDDLESBERGER, JR., *Professor and Chair of the Department*. B.A. (North Texas), 1975; M.A. (Ibid.), 1980; Ph.D. (Missouri), 1982. Since 1982.

MARY L. VOLCANSEK, *Professor and Dean of AddRan College of Humanities and Social Sciences*. B.A. (Abilene Christian), 1969; M.A. (Texas Tech), 1971; Ph.D. (Ibid.), 1973.

JAMES C. WRIGHT, JR., *Distinguished Lecturer*. Member of United States House of Representatives, 1954-1989 (Majority Leader, 1976-1987; Speaker 1987-1989). Since 1992.

Religion

D. JAMES ATWOOD, *Instructor and Assistant to the Dean of Admissions*. B.A. (TCU), 1970; M.A. (Vanderbilt), 1975; Ph.D. (Ibid.), 1978. Since 1983.

JULIE E. BYRNE, *Assistant Professor*. B.A. (Duke), 1990; M.A. (Ibid), 1996; Ph.D. (Ibid), 2000. Since 2000.

CLAUDIA V. CAMP, *Professor*. B.A. (Duke), 1972; M. Div. (Harvard), 1977; Ph.D. (Duke), 1982. Since 1980.

RONALD B. FLOWERS, *John F. Weatherly Professor of Religion*. B.A. (TCU), 1957; B.D. (Vanderbilt), 1960; S.T. M. (Ibid.), 1961; Ph.D. (Iowa), 1967. Since 1966.

ANDREW O. FORT, *Professor*. B.A. (Amherst), 1974; Ph.D. (Pennsylvania), 1982. Since 1982.

C. DAVID GRANT, *Associate Professor*. B.A. (Austin College), 1972; M.Th. (Southern Methodist), 1976; M.A. (Harvard), 1980; Ph.D. (Ibid.), 1981. Since 1981.

DAVID M. GUNN, *Professor and holder of the A. A. Bradford Chair of Religion*. B.A. (Melbourne, Australia), 1964; M.A. (Ibid.), 1966; B.D. (Otago, New Zealand), 1967; Ph.D. (Newcastle-upon-Tyne, England), 1975. Since 1993.

JACK A. HILL, *Assistant Professor*. B.A. (Occidental), 1971; M.T.S. (Harvard), 1974; M.A. (Vanderbilt), 1985; Ph.D. (Ibid), 1988. Since 2000.

NADIA M. LAHUTSKY, *Associate Professor*. B.A. (Hiram College), 1973; M.A. (Vanderbilt), 1979; Ph.D. (Ibid.), 1984. Since 1981.

DARREN J. N. MIDDLETON, *Assistant Professor*. B.A. (Manchester, England), 1989; M.Phil. (Oxford, England), 1991; Ph.D. (Glasgow, Scotland), 1996. Since 1998.

S. BRENT PLATE, *Assistant Professor*. B.A. (Seattle Pacific), 1990; M.A.T.S. (Columbia Theological Seminary), 1993; M.Th. (Glasgow, Scotland), 1995; Ph.D. (Emory, 1999. Since 2001.

JAN JAYNES QUESADA, *Instructor*. B.A. (North Carolina), 1984; M.A. (Baylor), 1990; Ph.D. (Ibid), 1996. Since 1999.

DARYL D. SCHMIDT, *Professor and Chair of the Department*. B.A. (Bethel, KS), 1966; M. Div. (Mennonite Biblical Seminary), 1970; Ph.D. (Graduate Theological Union, Berkeley), 1979. Since 1979.

YUSHAU SODIQ, *Associate Professor*. B.A. (Islamic U., Medina, Saudi Arabia), 1976; M.A. (Ibid.), 1980; M.A. (Temple), 1988; Ph.D. (Ibid.), 1991. Since 1992.

Spanish and Latin American Studies

DAVID BEDFORD, *Instructor*. B.A. (Texas Tech), 1970; M.A. (Ibid.), 1973; M.A. (Southwestern Baptist Theological Seminary), 1994; Ph.D. (Texas), 1976. Since 1996.

LEE A. DANIEL, *Professor and Chair of the Department*. B.A. (Tarleton State), 1968; M.A. (North Texas), 1972; Ph.D. (Texas Tech), 1979. Since 1985.

CAROLYN R. DURHAM, *Associate Professor*. B.A. (Drew), 1968; M.A. (Rutgers), 1972; Ph.D. (Ibid.), 1987. Since 1991.

ARTURO C. FLORES, *Associate Professor*. B.A. (Univ. Austral de Chile), 1972; M.A. (Arizona State), 1977; Ph.D. (Arizona), 1985. Since 1986.

DONALD H. FRISCHMANN, *Associate Professor*. B.A. (Missouri), 1975; M.A. (Ohio State), 1978; Ph.D. (Arizona), 1985. Since 1985.

PERRY A. MARCHBANKS, *Instructor*. B.A. (TCU), 1994; M.A. (University of Texas-Arlington), 1997. Since 2000.

KAREN R. MARTIN, *Instructor*. B.A. (TCU), 1991; M.A. (University of Texas-Arlington), 1997. Since 2000.

MARY R. N. MCKINNEY, *Instructor*. B.A. (TCU), 1975; M.A. (Stephen F. Austin St.), 1976; Ph.D. (University of Texas-Arlington), 1984. Since 2000.

PEGGY W. WATSON, *Associate Professor*. B.A. (Tulane), 1969; M.A. (Ibid.), 1976; Ph.D. (Ibid.), 1989. Since 1989.

Sociology and Criminal Justice

LARRY D. ADAMS, *Associate Professor, Associate Provost for Academic Affairs*. B.A. (Baylor), 1962; M.A. (TCU), 1966; Ph.D. (Florida State), 1969. Since 1969.

RONALD G. BURNS, *Assistant Professor of Criminal Justice*. B.S. (South Carolina), 1990; M.C.J. (Ibid.), 1993; Ph.D. (Florida State), 1997. Since 1997.

JEAN GILES-SIMS, *Professor of Sociology*. B.A. (New Hampshire), 1973; M.A. (Ibid.), 1976; Ph.D. (Ibid.), 1979. Since 1979.

THOMAS H. GUDERJAN, *Assistant Professor of Anthropology*. B.A. (Southern Illinois), 1976; M.A., (Southern Methodist University), 1983; Ph.D. (Ibid.) 1988. Since 2000.

ANGEL D. ILARRAZA FUENTES, *Assistant Professor of Criminal Justice*. B.A. (Northland), 1987; M.A. (Kansas State), 1992; Ph.D. (Bowling Green), 1995. Since 1996.

MICHAEL A. KATOVICH, *Professor of Sociology*. B.A. (Illinois), 1974; M.A. (Iowa), 1978; Ph.D. (Ibid.), 1983. Since 1983.

PATRICK T. KINKADE, *Associate Professor of Criminal Justice*. B.A. (California-Berkeley), 1981; M.A. (California State-Los Angeles), 1983; Ph.D. (California-Irvine), 1990. Since 1990.

MIGUEL C. LEATHAM, *Assistant Professor of Anthropology*. B.A. (New Mexico), 1983; M.A. (Ibid.), 1988; Ph.D. (Ibid.), 1993. Since 2000.

ANGELA L. THOMPSON, *Instructor of Sociology*. B.A. (Wellesley), 1988; M.A. (Brandeis), 1993; Ph.D. (Ibid.), 1998. Since 1998.

CAROL THOMPSON, *Associate Professor of Sociology and Criminal Justice and Chair of the Department*. B.A. (Louisiana State), 1983; M.A. (Ibid.), 1985; Ph.D. (Ibid.), 1988. Since 1992.

KEITH WHITWORTH, *Instructor of Sociology*. B.A. (Ouachita Baptist), 1983; M.A. (Southwest Baptist), 1993. Since 2000.

MORRISON G. WONG, *Professor of Sociology*. B.A. (California State-San Jose), 1972; M.A. (California-Riverside), 1975; Ph.D. (Ibid.), 1977. Since 1981.

College of Communication

David Whillock, Interim Dean
 Will Powers, Interim Associate Dean
 Dorenda Kesler, Assistant to the Dean

Journalism

ANANTHA BABBILI, *Professor*. B.S. (Osmania U., India), 1971; B.J. (Ibid.), 1972; M.A. (Oklahoma), 1976; Ph.D. (Iowa), 1981. Since 1981.

ROBERT BOHLER, *Director of Student Publications*. B.A. (Valdosta State), 1979; M.A. (Ibid.), 1990. Since 2000.

SUZANNE HUFFMAN, *Associate Professor*. B.A. (TCU), 1973; M.A. (Iowa), 1978; Ph.D. (Missouri), 1992. Since 1999.

LARRY DAVID LAUER, *Assistant Professor and Vice Chancellor for Marketing and Communication*. B.A. (American), 1964; M.A. (Ibid.), 1965. Since 1966.

DOUGLAS ANN NEWSOM, *Professor*. B.J. (Texas-Austin), 1954; B.F.A. (Ibid.), 1955; M.J. (Ibid.), 1956; Ph.D. (Ibid.), 1978. Since 1969.

EARNEST L. PERRY, Jr. *Assistant Professor*. B.S. (TCU), 1985; M.A. (Missouri), 1995; Ph.D. (Missouri), 1998

FREDERICK JOHN RASKOPF, *Associate Professor*. B.S. (Villanova), 1952; M.A. (Iowa), 1957; M.A. (Dallas), 1973; Ph.D. (Ibid.), 1978. Since 1973.

PHIL J. RECORD, *Fort Worth Star-Telegram Professional in Residence*. B.A. (Notre Dame), 1950. Since 1998.

MAGGIE B. THOMAS, *Associate Professor*. B.S. (Baylor), 1966; M.S. (Texas A&M), 1984; Ph.D. (Ibid.), 1988. Since 1991.

TOMMY G. THOMASON, *Associate Professor and Chairman of the Department*. B.A. (Ouachita), 1970; M.A. (Texas A&M-Commerce), 1972; Ed.D. (Ibid.), 1984. Since 1984.

Radio-Television-Film

RICHARD J. ALLEN, *Associate Professor*. B.F.A. (New York U.), 1981; M.F.A. (Indiana), 1984. Since 1993.

ROGER COOPER, *Associate Professor and Chairman of the Department*. B.S. (Arkansas State), 1983; M.S. (Ibid.), 1987; Ph.D. (Indiana), 1992. Since 1992.

RONALD ANDREW HASKETT, *Station Manager and University Instructional Staff*. B.S. (East Texas State), 1979; M.S. (TCU), 1982. Since 1985.

DEREK KOMPARE, *Assistant Professor*. B.A. (U.of Arizona), 1990; M.A. (Wisconsin-Madison), 1994; Ph.D. (Wisconsin-Madison), 1999. Since 1999.

CHARLES J. LaMENDOLA, *Instructor in Radio-TV-Film and Studio/Video Production Supervisor*. B.S. (Arkansas State), 1981; M.S. (Ibid.), 1988. Since 1994.

JOAN M. MCGETTIGAN, *Assistant Professor*. B.A. (Temple U.), 1981; M.A. (Penn State), 1985; Ph.D. (Penn State), 1994. Since 1997.

DAVID E. WHILLOCK, *Associate Professor*. B.A. (Hendrix College), 1976; M.A. (Arkansas), 1979; Ph.D. (Missouri), 1986. Since 1991.

Speech Communication

RALPH R. BEHNKE, *Professor*. B.A. (Missouri-Kansas City), 1959; M.S. (Wisconsin), 1963; Ph.D. (Kansas), 1966. Since 1974.

MERRY BUCHANAN, *Instructor*. B. A. (University of Central Oklahoma), 1982; M.A. (University of Central Oklahoma), 1989; Ph.D. (University of Oklahoma), 2000. Since 2000.

PAUL E. KING, *Associate Professor*. B.S. (Hardin-Simmons), 1978; M.S. (TCU), 1980; Ph.D. (North Texas), 1985. Since 1980.

ANNE E. LUCCHETTI, *Assistant Professor*. B.A. (Albion College), 1989; M.S. (Purdue University), 1991; Ph.D. (University of Texas at Austin), 1998. Since 1999.

WILLIAM G. POWERS, *Professor and Chair of the Department*. B.S. (Illinois State), 1970; M.S., (Ibid.), 1971; Ph.D. (Oklahoma), 1973. Since 1996.

CHRIS R. SAWYER, *Assistant Professor*. B. A. (Houston Baptist University), 1976; M.S. (Texas Christian University), 1980; Ph.D. (University of North Texas) 1992. Since 1999.

MELISSA J. YOUNG, *Assistant Professor*. B.A. (SUNY), 1991; M.A. (Ibid.), 1993; Ph.D. (Ibid.), 1996. Since 1995.

College of Fine Arts

Scott A. Sullivan, Dean
H. Joseph Butler, Associate Dean and Director of Graduate Studies
Andie Piehl, Assistant to the Dean

Art and Art History

BABBETTE BOHN, *Professor* (Art History). B.A. (Northwestern), 1972; M.A. (Boston U.), 1975; M.Phil. (Columbia), 1978; Ph.D. (*Ibid.*), 1982. Since 1988.

DAVID CONN, *Professor* (Printmaking, Drawing, Design). B.F.A. (Maryland Inst.), 1967; M.F.A. (Oklahoma), 1969. Since 1969.

TERRI CUMMINGS, *Coordinator of Art Education*. B.F.A. (Texas-Arlington), 1980; M.F.A. (Texas Woman's U.), 1992. Since 1992.

LORI BOORNAZIAN DIEL, *Assistant Professor* (Art History). B.A. (Emory), 1992; M.A. (Tulane), 1996. Since 2001.

THAD A. DUHIGG, *Associate Professor* (3-D Design, Sculpture). B.F.A. (Southern Illinois), 1986; M.F.A. (Syracuse), 1989. Since 1990.

LEWIS A. GLASER, *Professor* (Graphic Design). B.A. (Western Michigan), 1977; M.F.A. (Syracuse), 1988. Since 1987.

LINDA DEE GUY, *Associate Professor* (Printmaking, Drawing). B.A. (South Florida), 1974; M.F.A. (Maryland Inst.), 1976. Since 1976.

SUSAN HARRINGTON, *Associate Professor* (Drawing, Painting, Life Studies). B.F.A. (Maryland Institute College of Art), 1972; M.A. (Purdue), 1977; M.F.A. (North Texas), 1984. Since 1988.

ANNE HELMREICH, *Assistant Professor* (Art History). B.A. (Dickinson), 1985; M.A. (Pittsburgh), 1989; Ph.D. (Northwestern), 1994. Since 1996.

MICHAEL NIBLETT, *Assistant Professor* (Graphic Design), B.F.A. (TCU), 1975; M.F.A. (Oklahoma), 1977. Since 1997

EDITH JANE RILEY, *Art History Librarian*. B.F.A. (Stephen F. Austin), 1974; M.A. (Southern Methodist), 1983. Since 1983.

LUTHER A. SMITH, JR., *Professor* (Photography). B.A. (Illinois, Urbana-Champaign), 1972; M.F.A. (Rhode Island School of Design), 1974. Since 1983.

SCOTT A. SULLIVAN, *Professor and Dean of the College of Fine Arts*. B.A. (John Carroll U.), 1969; M.A. (Case Western Reserve U.), 1972; Ph.D., (Case Western Reserve U.), 1978. Since 2000.

MARK EDWARD THISTLETHWAITE, *Professor and Holder of the Kay and Velma Kimbell Chair of Art History*. B.A. (California - Santa Barbara), 1970; M.A. (*Ibid.*), 1972; Ph.D. (Pennsylvania), 1977. Since 1977.

RONALD WATSON, *Professor* (Drawing and Painting) and *Chair of the Department*. B.F.A. (Nebraska), 1964; M.F.A. (*Ibid.*), 1967. Since 1982.

JAMES WOODSON, *Associate Professor* (Painting, Drawing, Life Studies). B.F.A. (TCU), 1965; M.F.A. (Texas-Austin), 1967. Since 1974.

Ballet and Modern Dance

FERNANDO BUJONES, *Choreographer-in-Residence*, American Ballet Theatre 1972-95. Gold medal for Highest Technical Achievement, Varna, Bulgaria 1974. International Guest Artist and choreographer. Artistic Director of Ballet Mississippi (1993; Ballet Monterrey, Mexico (1995); Southern Ballet Theatre (2000).

LI-CHOU CHENG, *Ballet Master in Residence*. Former ballet master and soloist for the Beijing Central Ballet and principal teacher for the Boston Ballet. Since 1990.

ELLEN PAGE GARRISON, *Associate Professor and Chair of the Department*. B.F.A. (TCU), 1971. M.F.A. (*Ibid.*), 1978. Since 1973.

ELIZABETH GILLASPY, *Lecturer in Ballet*. B.B.A. (Texas Tech), 1985. M.F.A. (TCU) 1990. Secondary Certification Dance (TCU), 1995. Since 1990.

KEITHA DONNELLY MANNING, *Lecturer in Dance*, B.A. (Adelphi U.) 1971; M.A. (U. of North Texas), 1992; Ed.D. (Temple U.), 1996. Since 1998.

SUSAN DOUGLAS ROBERTS, *Associate Professor*. B.A. (TCU), 1979; B.F.A. (*Ibid.*), 1980; M.F.A. (Illinois), 1983. Since 1984.

Music

SHEILA M. ALLEN, *Associate Professor of Voice*. B.M. (Oberlin Conservatory), 1966; M.M. (Eastman, Rochester), 1967; D.M.A. (*Ibid.*), 1974. Since 1985.

JON BURGESS, *Assistant Professor of Trumpet*. B.M. (Illinois); 1978; M.M. (Kansas), 1980; D.M.A. (Arizona) 1988. Since 2000. H.

JOSEPH BUTLER, *Associate Professor; University Organist; Associate Dean and Director of Graduate Studies*. B.A. (Bowdoin), 1976; M.M. (New England Conservatory), 1978; D.M.A. (Eastman), 1985. Since 1996.

RICHARD ESTES, *Associate Professor and Director of Opera Theatre*. B.M. (Stetson), 1970; M.M. (Catholic U.), 1974. Since 1992.

JOSE FEGHALI, *Artist-in-Residence*. Graduate of the Royal Academy of Music in London; Grand Prize Winner, Van Cliburn International Piano Competition, 1985. Since 1990.

BLAISE J. FERRANDINO, *Associate Professor of Music Theory and Composition; Interim Director of Music*. B.M. (Ithaca College), 1980; M.M. (Syracuse), 1982; D.M.A. (Hartford), 1990. Since 1990.

BOBBY R. FRANCIS, *Associate Professor of Music and Director of Bands*. B.M.E. (Commerce), 1981; M.M.E. (Commerce), 1989. Since 2000.

GERALD R. GABEL, *Associate Professor of Music Theory and Composition*. B.M. (Northern Iowa), 1974; M.A. (California - San Diego), 1977; Ph.D. (Ibid.), 1984. Since 1987.

MISHA GALAGANOV, *Assistant Professor of Viola*. B.M. (Jerusalem), 1994; Artist Certificate (SMU), 1996; M.M. (Rice), 1998. Since 2000.

ROBERT GARWELL, *Professor of Music*. B.F.A. (Ohio U.), 1965; M.F.A. (Ibid.), 1967; D.M.A. (Oklahoma), 1977. Since 1989.

JOHN READ GIORDANO, *Associate Professor*. B.M.E. (TCU), 1960; M.M. (Ibid.), 1962; Diploma Superieure (Conservatoire Royal de Musique, Brussels), 1965. Musical Director and Conductor of the Fort Worth Symphony Orchestra. Since 1973.

GERMAN AUGUSTO GUTIERREZ, *Assistant Professor/Director of Orchestral Studies and Director of the Center for Latin American Music*. Maestro en Musica (Tolima Conservatory), 1978; M.M. (Illinois), 1991; D.A. (University of Northern Colorado), 1997. Since 1996.

LEANNE HEDGES KIRKHAM, *Director of Music Preparatory Program and Instructor in Piano*. B.M. (TCU), 1978; M.M. (Ibid.), 1981. Since 1981.

MICHAEL MECKNA, *Professor of Musicology*. B.A. (California State), 1978; Ph.D. (California), 1984. Since 1990.

SHERI NEILL, *Assistant Professor of Music Education*. B.M.E. (Texas Tech), 1970; M.Ed. (Stephen F. Austin University), 1983; Ph.D. (University of Missouri-Kansas City), 1998. Since 2001.

JOHN OWINGS, *Herndon Professor of Piano*. B.M. (UT-Austin), 1965; M.S. (Juilliard), 1970. Since 1990. JANET W. PUMMILL, *Staff Accompanist*. B.M. (North Texas), 1964; M.M. (Illinois), 1968. Since 1992.

RONALD L. SHIREY, *Professor of Choral Music*. B.M. (Tulsa), 1955; M.M. (Ibid.), 1961. Since 1976.

BRINTON A. SMITH, *Cellist-in-Residence*. M.A. (Math) (University of Southern California), 1988; M.M. (Juilliard), 1991; D.M.A. (Juilliard), 1998. Since 1998.

JUDITH A. SOLOMON, *Associate Professor of Piano*. B.A. (Rutgers), 1965; M. Mus. (Yale), 1968. Since 1968.

CURT THOMPSON, *Assistant Professor of Violin*. B.M. (Indiana), 1992; M.M. (Indiana), 1994; Ph.D. (Rice), 1997. Since 1997.

TAMAS UNGAR, *Professor of Piano*. A.Mus.A., L.Mus.A. (Sydney Conservatorium, Australia), 1965; D.M. (Indiana), 1983. Since 1978.

FRED VELEZ, *Associate Director of Bands*, B.M.E. Angelo State, 1980; M.M.E. Angelo State, 1981. Since 1998.

BRIAN WEST, *Assistant Professor of Music in Percussion*. B.M.E. (University of North Texas), 1992; M.A. (Indiana University of Pennsylvania), 1994. Since 2001.

GARY WHITMAN, *Associate Professor of Woodwinds*. B.M.E. (North Texas), 1976; M.M.E. (Ibid.), 1978. Since 1989.

CURTIS W. WILSON, *Professor of Music*. B.M.E. (TCU), 1963; M.M. (Ibid.), 1966. Since 1976.

BRIAN YOUNGBLOOD, *Assistant Director of Bands*. B.M.E. (Abilene Christian University) 1987; M.M. (East Texas State), 1992. Since 1999.

Theatre

BELINDA BOYD, *Associate Professor*, B.S. (Austin Peay State), 1983; M.F.A. (U. of Louisville), 1986. Since 1998.

GEORGE H. BROWN, *Assistant Professor*. B.A. (Glassboro State), 1987; M.F.A. (Pennsylvania State), 1990. Since 1993.

NATHAN LANDRUM, *Scene Shop Supervisor*, B.F.A. (Midwestern State University), 1999. Since 2000. LaLONNIE LEHMAN, *Associate Professor*. B.A. (TCU), 1972; M.A. (Ibid.), 1975. Since 1972.

VALERIE LIBERTA, *Costume Studio Supervisor*, B.F.A. (Illinois State University), 1987, M.F.A. (UT-Austin), 1990. Since 1999.

NANCY MYERS McCAULEY, *Associate Professor*. B.S. (Illinois State), 1966; M.F.A. (Wisconsin), 1971. Since 1979.

FORREST A. NEWLIN, *Professor and Chair of the Department*. B.A., B.S.E. (Kansas State Teachers College), 1960; M.S. (Ibid.), 1965; Ph.D. (Nebraska), 1978. Since 1993.

MICHAEL SKINNER, *Technical Director and Lighting Instructor*. B.A. (West Texas State University) 1990, M.F.A. (University of Oklahoma), 1993. Since 1993.

THOMAS J. WALSH, *Instructor*. B.A. (San Diego State University), 1979, M.F.A. (University of Texas-Austin), 1982, Ph.D. (University of Texas-Austin), 1996. Since 1999.

College of Health and Human Sciences

Rhonda Keen-Payne, Dean
Linda S. Moore, Associate Dean
Louann Boles, Assistant to the Dean
Donna Jackson, Assistant to the Dean for Graduate Studies

Harris School of Nursing

MARINDA E. ALLENDER, *Instructor*. B.S.N. (Virginia), 1978; M.S.N. (UT Arlington), 1985. Certified Pediatric Nurse. Since 1989.

KATHLEEN BALDWIN, *Associate Professor and Director of HSN Graduate Studies*. Diploma (West Pennsylvania Hospital School of Nursing, Pittsburgh), 1968; B.S. (Texas Woman's, Dallas), 1981; M.S. (Texas Woman's, Dallas), 1984; Ph.D. (Texas Woman's, Dallas), 1988. Gerontological Nurse Practitioner and Adult Nurse Practitioner. Since 1999.

LAZELLE E. BENEFIELD, *Associate Professor*, Diploma (Johns Hopkins Hospital School of Nursing, MD), 1972; B.S.N. (Univ of Florida), 1976; M.S.N. (Univ of Alabama), 1978; Ph.D. (Old Dominion Univ), 1989. Since 1993.

PATRICIA J. BRADLEY, *Associate Professor*. Diploma (Butterworth Hospital, MI), 1974; B.S. (Ferris State Univ, MI), 1977; M.S.N. (Wayne State Univ, MI), 1981; D.N.S. (Indiana Univ), 1993. Since 1991.

CAROLYN SPENCE CAGLE, *Associate Professor*. B.S.N. (Mankato State), 1972; M.S. (Northern Illinois), 1976; Ph.D. (Texas Woman's), 1983. Since 1978.

LINDA CURRY, *Professor*. A.A. (Florida), 1963; B.S.N. (Florida), 1965; M.N. (Florida), 1966; Ph.D. (North Texas State University), 1984. Since 1976.

PAMELA JEAN FRABLE, *Assistant Professor*. B.A. (Univ of Chicago), 1976; N.D. (Case Western Reserve Univ), 1982. Since 2000.

CHRISTINE GARZA, *Lecturer*. Diploma (Carraway Methodist Hospital), 1973; B.S.N. (Florida International Univ), 1975; M.S. (Texas Woman's), 1976; Ph.D. (North Texas State University), 1986. Certified Medical-Surgical Nurse. Since 2000.

DIANE ACKALL HAWLEY, *Assistant Professor and Director*. B.S.N. (TCU), 1981; M.S. (Texas Woman's), 1988; Ph.D. (New Mexico State Univ), 1998. Clinical Nurse Specialist in Medical-Surgical Nursing. Since 1998.

RHONDA KEEN-PAYNE, *W. F. "Tex" and Pauline Curry Rankin Professor of Nursing and Dean of the College of Health and Human Sciences*. B.S.N. (TCU), 1978; M.N.Sc. (Arkansas), 1981; Ph.D. (Texas Woman's), 1985. Since 1982.

SUZY LOCKWOOD, *Instructor*. B.S.N. (TCU), 1983; M.S.N. (UT Arlington), 1994. Since 1997.

RITA MARTIN, *Lecturer*. B.S.N. (Baylor), 1974; M.S.N. (UT Austin), 1980. Certified Medical-Surgical Nurse. Since 2000.

DEBRA MCLACHLAN, *Lecturer*. Diploma (Quincy City Hospital School of Nursing), 1975; B.S.N. (Univ of New Hampshire), 1980; M.S.N. (Boston College), 1984. Adult Nurse Practitioner. Since 1997.

ALISON MORELAND, *Instructor*. B.S. (TCU), 1961; M.S. (Texas Woman's), 1980. Since 1994.

KRIS RIDDLESBERGER, *Lecturer*. B.E.S. (Univ of Missouri-Columbia), 1980; B.S.N. (TCU), 1985; M.S. (Texas Woman's), 1989; Ph.D. (Texas Woman's), 2000. Clinical Nurse Specialist. Since 1995.

SUSAN WEEKS, *Instructor*. B.S.N. (William Jewell College), 1983; M.S. (Texas Woman's), 1986. Clinical Nurse Specialist in Psych-Mental Health Nursing. Since 1994.

JONELL WELLS, *Assistant Professor*. B.S.N. (Univ of Central Arkansas), 1974; M.S.N. (Wichita State Univ), 1981; Ph.D. (Texas Woman's), 1998. Since 1998.

SUSAN WILSON, *Associate Professor*. B.S.N. (UTMB, Galveston), 1967; M.N. (Washington), 1970; Ph.D. (Texas A&M), 1985. Certified Family Nurse Practitioner. Since 1988.

ANNE L. LIND, *Emeritus Assistant Professor of Nursing*

CAROL A. STEPHENSON, *Emeritus Associate Professor of Nursing*

Communication Sciences and Disorders

LYNN K. FLAHIVE, *Instructor*. B.S. (Marquette), 1977; M.S. (Ibid.), 1978. Since 1991.

MARIE TERESA GONZALEZ, *Lecturer*. B.S. (Texas Woman's U.), 1976; M.S. (Ibid.), 1985. Since 1992.

JOAN S. KLECAN-AKER, *Professor*. B.S. (Middle Tennessee), 1968; M.A. (Memphis State), 1971; Ph.D. (Florida State), 1982. Since 1994.

JANET ROYER LANZA, *Instructor*. B.S. (TCU), 1975; M.S. (Ibid.), 1976. Since 1989.

HELEN A. McCAFFREY, *Professor*. B.A. (Trinity U.), 1974; M.S. (Oklahoma), 1976; Ph.D. (Texas-Austin), 1992. Since 1995.

WILLIAM J. RYAN, *Associate Professor and Chair of the Department*. B.S. (SUNY), 1965; M.S. (Purdue), 1969; Ph.D. (Ibid.), 1971. Since 1996.

CAROL H. SYMON, *Instructor*. B.S. (Peurdue), 1971; M.S. (Ibid) 1972. Since 2000.

JENNIFER BARBER WATSON, *Associate Professor*. B.S. (Northern Arizona), 1976; M.A. (Northwestern), 1979; Ph.D. (Ibid.), 1981. Since 1982.

Kinesiology

T. ROSS BAILEY, *Instructor*. B.S. (TCU), 1976; M.Ed. (Ibid), 1977. Since 1977.

CHRISTOPHER P. HALL, *Instructor*. B.S. (TCU), 1983; MLA (Ibid), 1989. Since 1984.

KRISTIN J. LAGE, *Instructor*. B.S. (TCU), 1989; M.S. (SUNY, Buffalo), 1993. Since 1993.

JOEL B. MITCHELL, *Associate Professor and Chair, Department of Kinesiology*. B.A. (Lewis and Clark), 1978; M.A. (Maryland), 1983; Ph.D. (Ball State), 1988. Since 1988.

CAROL J. POPE, *Associate Professor*. B.S.Ed. (Texas), 1975; M.A. (Texas Woman's U.), 1978; Ph.D. (Ibid.), 1985. Since 1989.

DEBORAH J. RHEA, *Assistant Professor*. B.S. (Texas, Arlington), 1980; M.Ed. (Houston) 1990; Ed.D. (Ibid.), 1995. Since 1999.

MEENA SHAH, *Assistant Professor*. B.X. (Robert Gordon's, Aberdeen, Scotland), 1982; Ph.D. (King's College, London, UK) 1986.

DAN L. SOUTHARD, *Professor*. B.A. (Buena Vista), 1969; M.A. (Iowa), 1977; Ph.D. (Ibid.), 1980. Since 1980.

DARRYN S. WILLOUGHBY, *Assistant Professor*. B.S. (Tarleton State), 1986; M.Ed. (Ibid.), 1989; Ph.D. (Texas A&M), 1993. Since 1999.

JODY WOTOWEY, *Instructor*. B.S. (St. Mary's of the Plains), 1991; M.S. (Texas, Tyler.), 1994; Since 1999.

Social Work

ALAN DETTLAFF, *Instructor*. B.S.S.W. (TCU) 1995; M.S.W. (UT Arlington) 1999. Since 2001.

TRACY DIETZ, *Associate Professor and chair of the department*. B.S. (Wisconsin-Platteville), 1973; M.S.S.W. (Wisconsin-Madison), 1986; Ph.D. (Ibid.), 1993. Since 1992.

DAVID A. JENKINS, *Associate Professor*. B.D. (Louisiana State), 1983; M.S.W. (Ibid.), 1988; Ph.D. (Florida State), 1992. Since 1991.

LINDA S. MOORE, *Professor and Associate Dean of the College of Health and Human Sciences*. B.A. (Eastern Col.), 1969; M.S.W. (Virginia Commonwealth), 1975; Ph.D. (Texas Woman's), 1994. Since 1977.

GAIL WALLACE, *Assistant Professor*. B.S.W. (UT Arlington), 1981; M.S.S.W. (Ibid.), 1982; Ph.D. (Texas Woman's), 1998. Since 1997.

College of Science and Engineering

Michael D. McCracken, Dean

Bonnie E. Melhart, Associate Dean and Director of Bachelor of General Studies Program

Armida M. Guzman, Assistant to the Dean

Biology

WAYNE J. BARCELLONA, *Associate Professor and Chair of the Department*. A.B. (Southern California), 1962; M.S. (Ibid.), 1965; Ph.D. (Ibid.), 1970. Since 1973.

JOSEPH C. BRITTON, *Professor*. B.A. (TCU), 1963; M.A. (Ibid.), 1965; Ph.D. (George Washington), 1970. Since 1971.

RUDOLF BRUN, *Professor*. B.A. (U. of Zurich), 1962; Ph.D. (U. of Basel), 1968. Since 1978.

ERNEST F. COUCH, *Associate Professor*. B.S. (Southern Methodist), 1959; M.A. (North Texas), 1962; Ph.D. (Tulane), 1967. Since 1967.

RAY W. DRENNER, *Professor*. B.A. (Kansas), 1972; Ph.D. (Ibid.), 1977. Since 1977.

GARY W. FERGUSON, *Professor*. B.S. (Tulane), 1963; M.S. (Texas Tech), 1965; Ph.D. (Michigan), 1969. Since 1974.

PHILIP S. HARTMAN, *Professor and Chair of Health Professions Advisory Committee*. B.S. (Iowa State), 1975; Ph.D. (Missouri), 1979. Since 1981.

JOHN D. HORNER, *Associate Professor*. B.S. (Louisiana State), 1979; M.S. (New Mexico), 1983; Ph.D. (Ibid.), 1987. Since 1990.

GAIL IRWIN JONES, *Lecturer*. B.A. (Radford U.), 1971; M.S. (TCU), 1979; Ph.D. (North Texas), 1992. Since 1997.

GLENN C. KROH, *Associate Professor*. Assoc. Degree (Pennsylvania State), 1962; B.S. (Ibid.), 1966; M.S. (Ibid.), 1970; Ph.D. (Michigan State), 1975. Since 1975.

MICHAEL D. McCracken, *Associate Professor and Dean of College of Science and Engineering*. B.S. Ed. (Texas Tech), 1963; M.S. (Ibid.), 1965; Ph.D. (Indiana), 1969. Since 1971.

LEO W. NEWLAND, *Professor and Director of Environmental Sciences Program*. B.S. (Texas A&M), 1964; M.S. (Wisconsin), 1965; Ph.D. (Ibid.), 1968. Since 1969.

ANDREW PAQUET, JR., *Associate Professor*. B.S. (New Mexico), 1967; M.S. (Ibid.), 1970; Ph.D. (Arizona), 1974. Since 1975.

Chemistry

JOHN G. ALBRIGHT, *Professor*. B.A. (Wichita State), 1956; Ph.D. (Wisconsin), 1962. Since 1966.

JOSEPH A. BOBICH, *Professor*. B.S. (Michigan), 1965; Ph.D. (UCLA), 1971. Since 1973.

JEFFERY L. COFFER, *Professor*. B.S. (Wofford), 1982; M.S. (Wisconsin-Milwaukee), 1985; Ph.D. (Ibid.), 1987. Since 1990.

C. DAVID GUTSCHE, *Robert A. Welch Professor*. B.A. (Oberlin), 1943; Ph.D. (Wisconsin), 1947. Since 1989.

TRACY A. HANNA, *Assistant Professor*. B.A. (Brown), 1988; Ph.D. (California-Berkeley), 1994. Since 1998.

DALE A. HUCKABY, *Professor*. B.S. (Louisiana State), 1966; Ph.D. (Rice), 1969. Since 1969.

DAVID E. MINTER, *Associate Professor*. B.S. (Stephen F. Austin), 1968; M.S. (Ibid.), 1970; Ph.D. (Texas-Austin), 1974. Since 1980.

JEAN-LUC G. MONTCHAMP, *Assistant Professor*. Diploma of Engineering in Chemistry (School of Industrial Chemistry in Lyon, France), 1989; Ph.D. (Purdue), 1992. Since 1998.

ROBERT H. NEILSON, *Professor and Chair of the Department*. B.S. (Carnegie-Mellon), 1969; Ph.D. (Duke), 1973. Since 1978.

MANFRED G. REINECKE, *Professor*. B.S. (Wisconsin), 1956; Ph.D. (California-Berkeley), 1960. Since 1964.

WILLIAM H. WATSON, JR., *Emeritus Professor and Green Emeritus Tutor*. B.A. (Rice), 1953; Ph.D. (Ibid.), 1958. Since 1957.

Computer Science

LISA J. BURNELL, *Assistant Professor*. B.A. (UT Arlington), 1980; MS. (Ibid.) 1990; Ph.D. (Ibid), 1995, Since 2001.

JAMES R. COMER, *Associate Professor*. B.S. (UT Arlington), 1971; M.S. (Ibid.), 1972; Ph.D. (Texas A&M), 1979. Since 1981.

BONNIE E. MELHART, *Associate Professor and Associate Dean of College of Science and Engineering*. B.A. (Wright State), 1972; M.S. (Southern Illinois), 1974; M.S. (California-Irvine), 1988; Ph.D. (Ibid.), 1990. Since 1990.

C. THOMAS NUTE, *Associate Professor*. B.A. (California - San Diego), 1968; M.S. (Texas A&M), 1970; Ph.D. (Ibid.), 1977. Since 1981.

L. DONNELL PAYNE, *Associate Professor*. B.S. (Sam Houston), 1973; M.S. (Ibid.), 1976; Ph.D. (UT-Arlington), 1988. Since 1988.

J. RICHARD RINEWALT, *Associate Professor and Chair of the Department*. B.S.E.E. (UT-Arlington), 1969; M.S.E.E. (Ibid.), 1971; Ph.D. (Illinois), 1976. Professional Engineer-Texas, 1982. Since 1986.

Engineering

ROBERT R. BITTLE, *Assistant Professor*. B.S. (Oklahoma State), 1980; M.S. (Purdue), 1983; Ph.D. (Iowa State), 1994. Since 1994.

EDWARD S. KOLESAR, *Professor and Holder of the W.A. "Tex" Moncrief Jr. Chair of Engineering*. B.S. (Akron), 1973; M.S. (Air Force Institute of Technology), 1978; Ph.D. (Texas-Austin), 1985. Professional Engineer-Texas. Since 1993.

ANDRE P. MAZZOLENI, *Associate Professor*. B.S.E.E. (Duke), 1983; M.S. (Wisconsin-Madison), 1989; M.S. (Ibid.), 1990; Ph.D. (Ibid.), 1992. Since 1992.

TRISTAN JORGE TAYAG, *Assistant Professor*. B.S.E.E. (Johns Hopkins), 1986; M.S.E. (Ibid.); 1987; Ph.D. (Virginia), 1991. Since 1997.

PATRICK L. WALTER, *Senior Design Lecturer*. B.S. (Penn State), 1965; M.S. (New Mexico), 1967; Ph.D. (Arizona State), 1978. Professional Engineer-New Mexico. Since 1995.

R. STEPHEN WEIS, *Professor*. B.S.E.E. (U. S. Naval Academy), 1979; M.S.E.E. (Georgia Tech), 1984; Ph.D. (ibid.), 1987. Since 1992.

WALTON E. WILLIAMSON, JR. *Professor and Chair of the Department*. B.S.M.E. (Stanford), 1966; M.S. (A.E.) (Texas), 1967; Ph.D. (A.E.) (ibid.), 1970. Since 1999.

Geology

JOHN A. BREYER, *Professor*. B.S. (Cincinnati), 1970; Ph.D. (Nebraska), 1974. Since 1984.

ARTHUR B. BUSBEY, *Associate Professor*. B.S. (UT Austin), 1974; M.A. (Ibid.), 1977; Ph.D. (Chicago), 1982. Since 1985.

R. NOWELL DONOVAN, *Charles B. Moncrief Professor*. B.Sc. (Newcastle), 1966; Ph. D. (Ibid.), 1972. Since 1986.

RICHARD E. HANSON, *Herndon Professor of Geology*. B.S. (Oklahoma State), 1975; M.S. (Ibid.), 1977; Ph.D. (Columbia), 1983. Since 1988.

KEN M. MORGAN, *Professor, Director of Center for Remote Sensing and Energy Research, and Chair of the Department*. B.S. (Indiana), 1973; M.S. (Arizona State), 1976; Ph.D. (Wisconsin), 1978. Since 1978.

LEO W. NEWLAND, *Professor and Director of Environmental Sciences Program*. B.S. (Texas A&M), 1964; M.S. (Wisconsin), 1966; Ph.D. (Ibid.), 1969. Since 1969.

MICHAEL C. SLATTERY, *Associate Professor*. B.A. (University of the Witwatersrand), 1988; M.S. (U. of Toronto), 1990; Ph.D. (Oxford), 1994. Since 1998.

Mathematics

DAVID F. ADDIS, *Associate Professor*. B.S. (Brown), 1964; M.S. (Rutgers), 1966; Ph.D. (Ibid.), 1970. Since 1970.

VICTOR A. BELFI, *Assistant Professor*. B.A. (Rice), 1965; Ph.D. (Ibid.), 1969. Since 1969.

CHARLES ROY COMBRINK, *Associate Professor*. B.S. (Southeastern State Col.), 1961; M.A. (Kansas), 1964; Ph.D. (Ibid.), 1966. Since 1966.

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MARY ANNE GORMAN, *Professor*. B.A. (North Texas), 1970; M.Ed. (Ibid.), 1974; Ph.D. (Texas Woman's U.), 1983. Since 1983.

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LARRY J. LOCKWOOD, *Professor of Finance*, Holder of the C.R. Williams Professor of Financial Services. B.S. (David Lipscomb Univ), 1975; M.A. (Western Kentucky), 1979; M.S. (Purdue), 1980; Ph.D. (Ibid.), 1982. Since 1994.

GEORGE S. LOW, *Associate Professor of Marketing*. B.A. (Brigham Young), 1982; M.B.A. (Western Ontario), 1988; Ph.D. (Colorado), 1994. Since 1996.

REBECCA A. LUCE, *Assistant Professor of Management*. B.A. (Kent State), 1972; M.A. (Ibid.), 1973; J.D. (Univ of Akron), 1982; Ph.D. (Michigan State), 2001. Since 2000.

ROBERT F. LUSCH, *Dean, M.J. Neeley School of Business*. B.S. Business Administration (Univ of Arizona), 1971; M.B.A. (Ibid.), 1972; Ph.D. Business Administration (Univ of Wisconsin), 1975. Since 2000.

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VASSIL MIHOV, *Assistant Professor of Finance*. B.A. (Graceland College), 1995; Ph.D. (Purdue), 2000. Since 2000.

STEVE MUELLER, *Assistant Professor of Management*. B.S. (Purdue), 1966; M.B.A. (UT Arlington), 1977; M.S. (UT Dallas), 1989; Ph.D. (Ibid.), 1994. Since 2000.

DONALD R. NICHOLS, *Professor of Accounting*. B.B.A. (North Texas State), 1963; M.B.A. (Ibid.), 1965; Ph.D. (Oklahoma), 1970. Since 1984.

GARY L. NICKELSON, *Instructor in Management*. B.A. (Texas Tech), 1969; J.D. (UT Austin), 1972. Since 1976.

LAWRENCE H. PETERS, *Professor of Management*. A.B. (Washington), 1968; M.S. (Southern Illinois), 1969; Ph.D. (Purdue), 1975. Since 1985.

ROGER C. PFAFFENBERGER, *Professor of Decision Sciences*. B.S. (California State), 1965; M.S. (Texas A&M), 1968; Ph.D. (Ibid.), 1971. Since 1978.

RANGA V. RAMASESH, *Associate Professor of Decision Sciences*. B.E. (Univ of Mysore), 1968; M.E. (Indian Institute of Science), 1970; M.B.A. (Rochester), 1982; Ph.D. (Pennsylvania State), 1988. Since 1988.

ROBERT T. RHODES, *Instructor of Management*. J.D. (Baylor), 1980; L.L.M. (Tulane), 1992. Since 1984. RENEE ROACH, *Instructor of E-Business*. B.S. (Arkansas State Univ), 1984; M.S. (Ibid.), 1986; M.B.A. (TCU), 1995. Since 1999.

MAURICIO RODRIGUEZ, *Associate Professor of Finance*. B.B.A. (George Washington Univ), 1988; M.B.A. (The American Univ), 1989; Ph.D. (Connecticut), 1994. Since 1994.

SHANNON SHIPP, *Associate Professor of Marketing*. B.S. (Tulsa), 1977; M.B.A. (Rensselaer), 1978; Ph.D. (Minnesota), 1990. Since 1988.

MEENU SINGH, *Assistant Professor of E-Business*. B.E. (Rangoon Institute of Technology), 1970; M.S. (Western Illinois Univ), 1984; M.S. (Ibid.), 1989; Ph.D. (Univ of Kentucky), 2000. Since 2000.

GREGORY K. STEPHENS, *Associate Professor of Management and Chair*, Department of Management. B.S. (Brigham Young), 1982; M.B.A. (Ibid.), 1984; Ph.D. (California-Irvine), 1992. Since 1990.

CHANDRA SUBRAMANIAM, *Assistant Professor of Accounting*. B.S. (Malaysia), 1977; B.A.CCT (Minnesota-Duluth), 1984; M.B.A. (Ibid.), 1984; Ph.D. (Minnesota), 1993. Since 1992.

ROBERT L. VIGELAND, *Professor of Accounting and Chair*, Department of Accounting. B.S. (Lehigh), 1971; M.Ph. (Columbia), 1976; Ph.D. (Ibid.), 1977. Since 1989.

ANDREW C. WAISBURD, *Assistant Professor of Finance*. B.S. (Cornell), 1993; M.S. (Indiana Univ), 1998; Ph.D. (Ibid.), 2000. Since 2000.

MARCIA WEIDENMEIR, *Assistant Professor of Accounting*. B.B.A. (College of William and Mary), 1989; M.B.A. (UT Austin), 1991; Ph.D. (Ibid.), 2000. Since 2001.

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ZACH G. ZACHARIA, *Assistant Professor of Marketing*. B.S. (Calgary), 1985; M.B.A. (Alberta), 1993; Ph.D. (Tennessee), 2001. Since 2001.

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CATHY C. BLOCK, *Professor*. B.S. (Lamar), 1970; M.S. (North Texas), 1974; Ph.D. (Wisconsin-Madison), 1976. Since 1977.

CAROL BOLLINGER, *Director of Teacher Certification*, B.S. (Ouachita Baptist), 1971; M.S. (Ibid.) 1972. Since 1999.

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NANCY MEADOWS, *Associate Professor*. B.A. (Texas), 1972; M.Ed. (Ibid.), 1973; Ed.D. (Washington), 1988. Since 1991.

ETTA MILLER, *Associate Professor*. B.A. (Roosevelt), 1960; M.A. (Chicago), 1966; Ed.D. (SUNY-Albany), 1974. Since 1972.

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SHARON REYNOLDS, *Professor*. B.S. (Arizona), 1964; M.S. (Southern Illinois), 1965; M.A. (Texas Woman's), 1976; Ph.D. (Ibid.), 1983. Since 1987.

DONAL M. SACKEN, *Professor*. B.A. (Texas), 1970; J.D. (Ibid.), 1973; Ph.D. (Georgia), 1977. Since 1991.

CECILIA SILVA, *Associate Professor*. B.A. (Ohio State), 1975; M.A. (California State-Los Angeles), 1982; Ph.D. (USC), 1990. Since 1995.

RANAE STETSON, *Assistant Professor*, B.S. (Nevada-Las Vegas), 1982; M.Ed. (Ibid.), 1987; Ed.D. (Houston), 1991. Since 1996.

ELIZABETH R. TAYLOR, *Assistant Professor*, B.S. (Abilene Christian), 1975; M.A. (Sul Ross), 1979; Ph.D. (St. Mary's), 1993. Since 1998.

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Management Program (TCU), 1986; M.S. (Tarleton) 1995. Since 1995.

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Judy Alter, B.A., M.S., Ph.D. -- Director

Tracy Row, B.A., M.A. -- Editor

University Advancement

Bronson C. Davis, B.A., M.Ed. -- Vice Chancellor

Ann Loudon, B.A., MLA. -- Director of Principal Gifts

David R. Murph, B.A., M.Div., Ph.D. -- Director of Church Relations

Constituent Programs

Roby V. Key, B.S., M.S., Ed.D. -- Assistant Vice Chancellor

Michelle Amos, B.S. -- Director of Reunion Giving

Gwen Notestine, B.A. -- Director of Phonathon & Annual Fund Officer

Caroly Dalton, B.A. -- Annual Fund Officer

Marcia Masenda, B.A. -- Annual Fund Officer

Catherine Reagan, B.S. -- Annual Fund Officer

Davis Babb, B.S. -- Director of Athletic Giving

Hal Roach, B.B.A. -- Director of Frog Club

Mark Mourer, B.S. -- Assistant Director of Frog Club

Kristi Hoban, B.S., -- M.S. Director of Alumni Relations

Judy Clark, B.S.N. -- Assistant Director of Alumni Relations

Jeff Crane, B.S. -- Assistant Director of Alumni Relations

Greg Trevino, B.S. -- Assistant Director of Alumni Relations

Jennifer Cox, B.A. -- Special Events Coordinator

Advancement Services

Nancy Petruso, B.A. M.A. -- Assistant Vice Chancellor

Alice Carter, B.A., M.A. -- Research Officer

Andrea Heitz, B.A., M.S. -- Research Officer

Virginia Schmidt, B.A. -- Research Officer

Lisa Winter, B.S. -- Director of Development

Information Services

Cheryl Gray, B.A. Gift Processing Manager

Dorothy Morris -- Administrative Services Manager

Yvonne Mann, B.B.A. -- Technical Services Manager

Sandra Tuomey, B.S. -- Director of Donor Relations

Erin Bender, B.S. -- Scholarship/Stewardship Coordinator

Nancy Madsen, B.A. -- Stewardship Coordinator

Leadership Gifts

Michael Mattson, B.A. -- Deputy Director/Director of Planned Giving

Dennis Alexander, B.S. -- Director of Corporate/Foundation Giving

Adam Baggs, B.A., M.P.A. -- Leadership Gifts Officer

Melinda Moyer, B.B.A. -- Leadership Gifts Officer

Steve Savage, B.S. -- Leadership Gifts Officer

DeVonna Tinney, B.B.A. -- Leadership Gifts Officer

Catherine Neece, B.B.A. -- Senior Associate

William L. Adams Writing Center

Harry Antrim -- Instructional Staff

Jeanette G. Harris, B.A., M.A., Ed.D -- Director

David Kuhne, B.A., M.F.A., Ph.D -- Associate Director

Margaret-Rose Marek, B.S., M.A. -- Instructional Staff

Marie Schein -- Instructional Staff

Steven Sherwood, B.S., M.F.A. -- Assistant Director

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Finances

[Tuition and Fees](#)[Payment](#)[Refunds](#)

An independent church-related institution of higher education, Texas Christian University is chartered as a private non-profit corporation financed by gifts from alumni and friends, by endowment earnings, and by tuition and fees. The University receives no direct support from the state or federal government.

Tuition and fees are set at a level consistent with the educational services the University provides, and a large program of scholarships and financial aid helps some 60 percent of the students with their educational costs each year. Information about the financial aid program follows in this section of the Bulletin and more details are available from the Office of Scholarships and Student Financial Aid.

Tuition and Fees

Tuition and fees at Texas Christian University are usually set in the spring to be effective with Term I of the following summer session. Current tuition and fee schedules are available from:

Office of Admissions
TCU Box 297013
Fort Worth, TX 76129
(817) 257-7490

Financial Services
TCU Box 297011
Fort Worth, TX 76129
(817) 257-7834

Residential Services
TCU Box 297360
Fort Worth, TX 76129
(817) 257-7865

Payment

Texas Christian University has a monthly billing cycle. Payment in full for each semester's charges is due no later than the due date specified on the first statement on which the charges for the semester appear. If full payment is not made, an optional monthly payment plan is available. A minimum payment of 25% of total semester charges is due in each monthly installment. No advance notice is required to participate in the payment plan option. However, finance charges will be assessed monthly on unpaid balances under the payment plan. More detailed information about the payment plan option is available from the Assistant Director of Financial Services, Student Services.

Payment deadlines must be met or the student may be denied advance or current registration. The ability to register in subsequent semesters may be denied if the student account is in arrears.

Transcripts will not be released nor will a degree be awarded unless the student has satisfied all financial obligations to the University, including loans made through the University.

Miscellaneous Charges. University Store purchases, library and parking fines, health insurance, health center services and medications, parking permits and finance charges are billed monthly.

A finance charge is assessed monthly on billed items not paid by the stated due date. This applies to all accounts regardless of payment plan participation. More detailed information is available from the Assistant Director of Financial Services, Student Services.

Students Receiving Financial Aid may participate in the payment plan option. The minimum amount due on the statement should be the total semester amount due less any financial aid awarded (except work/ study, which is paid directly to the student during the semester).

Refunds

Tuition. For a fall or spring semester, a student who withdraws from the university on or before the fifth class day may receive a 100 percent tuition refund. If withdrawal from the university occurs on or before the tenth class day, a 75 percent tuition refund is made. A 50 percent tuition refund is made upon withdrawal from the university on or before the 15th class day, and a 25 percent tuition refund is made if withdrawal is made on or before the 20th class day.

Students initially enrolled or reenrolled after spring 2001 semester. For a fall or spring semester, a student who initially enrolls for 12-18 hours but drops to less than 12 hours on or before the fifth class day will be refunded the difference between the tuition portion of the semester fee and the applicable hourly tuition amount for the reduced

number of hours. A student who initially enrolls for 12-18 hours but drops to less than 12 hours after the fifth class day will not receive a refund of any portion of the semester fee.

For a fall or spring semester, a student who withdraws from a class on or before the fifth class day may receive a 100 percent tuition refund for the class if the student initially enrolled for less than 12 hours and remains enrolled for less than 12 hours at the end of the fifth class day. If withdrawal from the class occurs on or before the tenth class day, a 75 percent tuition refund is made. A 50 percent tuition refund is made upon withdrawal from the class on or before the 15th class day, and a 25 percent tuition refund is made if withdrawal is made on or before the 20th class day.

Students enrolled as of spring 2001 semester and maintaining continuous enrollment. For a fall or spring semester, a student who withdraws from a class on or before the fifth class day may receive a 100 percent tuition refund. If withdrawal from a class occurs on or before the tenth class day, a 75 percent tuition refund is made. A 50 percent tuition refund is made upon withdrawal from a class on or before the 15th class day, and a 25 percent tuition refund is made if withdrawal is made on or before the 20th class day.

Return of Federal Financial Aid. A student who withdraws from the University before the 60% point in the enrollment period (summer, fall, or spring) may have to return a prorated portion of the financial aid he or she received or that TCU received on his or her behalf. Detailed information about the federal policy on the 'Return of Title IV Funds' is available in the financial aid office.

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Texas Christian University provides an extensive, individually designed financial aid program. There are certain principles that guide the administration of the various programs administered by the TCU Office of Scholarships and Student Financial Aid. First, financing a university education is a joint venture between the family and TCU. Second, eligibility for Title IV federal financial assistance, TCU-funded, and state financial aid programs will be based upon information on the Free Application for Federal Student Aid (FAFSA) as provided by the family. Third, academic scholarships will be based upon the academic achievement of the students. Fourth, those who have excelled academically will be given the largest share of TCU-funded dollars.

Applicants for assistance must be admitted to the University before aid is committed. Those students qualifying for academic scholarships will be reviewed by the Academic Scholarship Committee and notified of the results in March or November depending upon the date of entrance to the University.

Applicants for financial assistance programs must submit the FAFSA no later than March 15 for fall entry and September 1 for spring entry. These dates ensure that this information will arrive at TCU prior to the deadline of May 1 and November 1, respectively. The FAFSA can be obtained from TCU, high school guidance offices, or in the case of transfer students, other college financial aid offices. Financial assistance files completed after May 1 or November 1 will be reviewed; however, there may be a reduction in the aid offering due to budget limitations. (Deadlines for Ranch Management applicants, athletes, and fine arts performance majors may be extended due to University recruitment practices and for transfer students whose admission is pending due to the availability of final transcripts.) In addition to the FAFSA, all individuals requesting aid other than academic scholarships who are selected for verification will be required to submit a copy of the parents' and student's federal income tax return and a verification worksheet to substantiate the application. Additional documents may be required in individual cases.

Students generally receive aid from a variety of sources. Scholarships, federal and state grants, work, and/or loans are combined or "packaged" to form the financial assistance award. Approximately 60 percent of the current TCU student body is receiving financial assistance. Questions regarding the University's aid program may be directed to: Director of Scholarships and Student Financial Aid, Texas Christian University, TCU Box 297012, Fort Worth, Texas 76129, (817) 257-7858.

General Policies for All Programs

1. Students may receive more than one TCU funded award. However, the annual aggregate of the combined awards may not exceed the value of full tuition for the hours enrolled up to 36 credit hours. Institutional funds may only be applied to tuition costs unless specifically designated as Room and Board Grants. Note: With the exception of the Pell Grant, most federal and state grant programs are also limited to paying tuition costs.
2. Any aid granted by the University may be withdrawn at any time for unsatisfactory conduct.
3. If invited to participate in the Honors Program, scholarship recipients are encouraged to do so.
4. All students receiving financial aid from sources outside the University must notify the Office of Scholarships and Student Financial Aid of the amount and source of such aid.
5. Most financial aid awards are granted for one year and may be renewed if the recipient meets required stipulations. All reapplications and required documents must be received prior to May 1 to ensure funding.
6. Maximum duration of TCU funded awards will be eight semesters or a total of 128 TCU semester hours of undergraduate study, whichever occurs first.
7. Students who receive financial eligibility-based assistance through TCU may not receive funds from any additional source which will exceed their eligibility. Any student who has been "over-awarded" will have his or her awards reduced by the Office of Scholarships and Student Financial Aid so that all aid received will comply with federal and state guidelines. When possible, this reduction takes place in either the employment or loan programs.
8. TCU funded assistance is restricted to tuition costs for first-degree undergraduates. (Exceptions are made for Ranch Management, Piano Certificate, or Artist Diploma programs and for recipients of Alumni half-tuition, City of Fort Worth Grant, and Professional/Personal Development Grant.)

9. Academic scholarships may only be applied to tuition costs. Students receiving awards from other sources that are restricted to tuition charges must choose which award(s) to accept in the event these funds exceed tuition.

10. In recognition of the time demand as a condition of these awards, students receiving Band, Orchestra, or Choral grants may be eligible for a ninth or tenth semester of funding. To be eligible, the recipient must be in a program requiring more than 128 hours for a baccalaureate degree and be recommended by both the ensemble director and academic dean and be approved by the Director of Scholarships and Student Financial Aid.

11. A student must register for at least 12 semester hours to receive TCU funded financial assistance (other than programs designated for part-time students). However, students registering for less than 12 but at least 6 semester hours will be considered for all state and federal programs administered by the Office of Scholarships and Student Financial Aid. Additionally, academic scholarship renewal requires successful completion of at least 12 hours per semester and 27 semester hours of "letter grade" credits each academic year (fall/spring).

12. Students must maintain the requirements outlined in the Undergraduate Student Financial Aid Statement of Satisfactory Academic Progress in order to apply for and receive financial aid.

13. With the exception of TCU International Summer Study programs, grant assistance is generally not available during the summer terms.

14. Graduating seniors in their last semester may register as part-time students. Aid will be offered on a pro rata basis. The student must register for at least 6 hours of credit.

15. Students participating in the TCU London Center and TCU sponsored exchange programs are eligible for all TCU administered aid. Students participating in other study abroad programs are eligible for state and federal financial assistance.

Academic Scholarships

TCU rewards academic achievement. The following list of awards is designed to recognize entering students who have excelled academically. In order for a student to compete for an academic award, freshman applicants must complete the application for admission and submit SAT/ACT scores by January 15. Transfer student applicants must be admitted by May 15 for the fall semester and November 1 for the spring semester. These awards are based solely on academic performance without regard to the family's financial condition as evidenced by the FAFSA.

Freshman Awards

Applicants who meet the January 15 and November 1 (spring entry) admission deadline are automatically considered for these awards. In order to compete, a student must have a minimum score of SAT 1230/ACT 28 and rank in the top 15% of their high school class. The academic record and activities outside the classroom are reviewed by a committee, which determines the most qualified applicants.

There are specific renewal requirements common to all academic awards. They are:

1. Successful completion of 27 "letter grade" hours each academic year (fall and spring). Note: Summer courses do not satisfy the requirement.
2. A TCU cumulative GPA of 3.0 is required at the conclusion of the freshman year. Thereafter, a 3.25 TCU cumulative GPA is required at the conclusion of each spring semester.
3. Pass/No Credit courses will not count toward satisfying requirements. Courses required for the degree in which letter grades are not available may be counted toward fulfilling the 27-hour requirement.
4. F grade, W or Q, I, AU, NR, CR, Advanced Placement (AP), College Level Examination Program (CLEP), and College Board Achievement Tests in Foreign Languages (ACH) will not count toward satisfying requirements.
5. Duration of freshman awards is 8 semesters or 128 TCU semester hours, whichever occurs first.

Chancellor Scholarship

Amount: Full tuition for up to 18 hours per semester for up to 8 undergraduate semesters. Total value in excess of \$60,000.

Deans Scholarship

Amount: \$6,500 per year for up to 8 undergraduate semesters. Total value \$26,000.

Faculty Scholarship

Amount: \$4,500 per year for up to 8 undergraduate semesters. Total value \$18,000.

TCU Scholarship

Amount: \$2,500 to \$3,000 per year for up to 8 undergraduate semesters. Total value \$10,000 to \$12,000.

Valedictorian Scholarship

Amount: \$3,000 per year for up to 8 undergraduate semesters. Total value \$12,000.

Special Note: Candidates who do not receive a higher TCU academic award will be eligible for this scholarship upon written certification from the high school that they are ranked the highest in their class.

Salutatorian Scholarship

Amount: \$2,000 per year for up to 8 undergraduate semesters. Total Value \$8,000.

Special Note Candidates who do not receive a higher TCU academic award will be eligible for this scholarship upon written certification from the high school that they are ranked second highest in the class.

Distinguished Scholar Award for National Merit Finalists

Amount: \$4,000 per year for up to 8 undergraduate semesters. Total value \$16,000.

Special Note: Scholars must be so designated as finalist by The National Merit Scholarship Corporation. If the student's credentials equal those receiving a higher award, the National Merit award will increase to a higher amount.

National Achievement Finalist Scholarship

Amount: \$4,000 per year for up to 8 undergraduate semesters. Total value \$16,000.

Special Note: Scholars must be so designated as finalist by The National Merit Scholarship Corporation. If the student's credentials equal those receiving a higher award, the National Achievement award will increase to the higher amount.

National Hispanic Finalist Scholarship

Amount: \$4,000 per year for up to 8 undergraduate semesters. Total value \$16,000.

Special Note: Scholars must be so designated as finalist by The College Board. If the student's credentials equal those receiving a higher award, the National Hispanic award will increase to the higher amount.

TCU Emerging Leader Award

Amount: \$1,500 per year for up to 8 undergraduate semesters. Total value \$6,000.

Special Note: This special recognition is awarded to students who are not receiving any other merit-based award, but who have demonstrated significant potential through academic achievement, community involvement and leadership traits. Like all awards, selection is competitive and meeting minimums does not ensure selection. Renewal is based upon certification of participation within the University's leadership programs.

Transfer Awards

Transfer scholarships are highly competitive. Candidates must present a minimum cumulative college GPA of 3.25 and at least 27 hours of transferable course work. Other factors that will be considered are strength of curriculum, GPA earned during the last 30 hours of course work, communication skills, and extra-curricular activities. Renewal of scholarships is based on the successful completion of at least 27 hours of letter-grade course work at TCU during the academic year (Fall and Spring Terms). A TCU cumulative GPA of 3.25 is required at the conclusion of the Spring Term.

Transfer Chancellor Scholarship

Amount: Full Tuition for up to 18 hours per semester for up to 4 undergraduate semesters.

Total value in excess of \$30,000.

Special Note: Candidates must also, by time of TCU enrollment, have completed either their associate's degree from a community/junior college, or at least 64 transferable hours of senior/junior college course work.

Transfer Deans Scholarship

Amount: \$6,500 per year for up to 6 undergraduate semesters. Total value \$19,500.

Transfer Faculty Scholarship

Amount: \$4,500 per year for up to 6 undergraduate semesters. Total value \$13,500.

Transfer TCU Scholarship

Amount: \$2,300 to \$3,000 per year for up to 6 undergraduate semesters. Total value \$6,900 to \$9,000.

Phi Theta Kappa Alumni Scholarship Amount \$1,500 per year for up to 6 undergraduate semesters. Total value of \$4,500.

Special Note: Active PTK membership is also a pre-requisite for this TCU-sponsored award.

TCJC/TCU Cornerstone Scholarship

Amount: \$5,000 per year for up to 4 undergraduate semesters. Total value \$10,000.

Special Note: This scholarship is awarded to select top Tarrant County College Cornerstone Scholars. Candidates must have completed the program at TCJC with two years full-time course work or an Associate's Degree. Recipients must enroll in the TCU Honors Program. Meeting minimums does not ensure selection.

Sponsored Scholarships, Outside Awards

Individuals, foundations, and other agencies place scholarships with TCU. These are awarded by the University through its regular channels in keeping with the standards and/or the conditions stipulated by the donor. Qualified students are considered for these scholarships on the basis of the TCU admissions application. In addition, financial assistance is offered by a number of corporations, foundations, and other organizations, which grant them directly to the student, who may then select the institution where the award is to be used. High school principals and counselors usually have information concerning such awards.

Performance Awards

TCU offers talent-based awards. The recipients of these awards are recommended by the individual department(s) and the awards may or may not be based in part upon the results of the FAFSA.

Athletic Grant-in-Aid. Grants-in-aid for intercollegiate athletes are granted in accordance with the policies of the National Collegiate Athletic Association and the USA Athletic Conference; however, athletes who apply for state or federal grants or for other TCU financial assistance programs must meet the standards for regular financial assistance.

Nordan Fine Arts Scholarship. These awards are made to exceptionally talented students in art, ballet/modern dance, music, and theatre. They hold a value of up to \$28,000 over a four-year period for undergraduate students. The awards are renewable each year subject to the recipient fulfilling expectations. For more information contact: Dean, College of Fine Arts, TCU Box 298000 or Dean, College of Communication, TCU Box 298040, Fort Worth, Texas 76129.

Band Awards. Funds are available to some members of the Horned Frog Band. The amount of the award will depend upon talent and availability of other aid. Awards are made on recommendation of the Director of Bands after an audition. Awards may be renewed.

Orchestra and Choral Awards. Funds are available to some members of the University Orchestra and Choral Programs. The amount of the awards depends upon talent and availability of other aid. Awards are made on recommendation of the Director of the Orchestra and the Director of the Choir after an audition. Awards may be renewed.

Church-Related Programs

Beasley Foundation Grants. These grants are for members of the Christian Church (Disciples of Christ) and are made available through the Theodore and Beulah Beasley Foundation, Inc. They are based on the results of the FAFSA, academic achievement, and leadership potential. To be eligible, a student must rank in the top 25% of his/her high school class or have a minimum SAT 950/ACT 23 or a 3.0 high school grade point average, or a 2.5 cumulative transfer grade point average. The amount of assistance depends on the results of the FAFSA and availability of other aid. Most awards range from \$1,000 to \$2,500. Consideration for renewal is based upon successful completion of at least 24 hours and achievement of a minimum TCU cumulative GPA of 2.5.

Church Vocation Grant/Loan. Through the cooperation of the Christian Church (Disciples of Christ), TCU is able to award financial assistance to students, regardless of denomination, preparing to become ordained clergy, church musicians, or directors of religious education in a full-time church vocation affiliated with a church denomination. These awards will be in an amount not to exceed one-half tuition for up to 18 hours per semester. The minister and the board (or governing body) of the applicant's home congregation must certify the applicant as a member in good standing and as a candidate for full-time church-related work. In addition, a letter of recommendation from an appropriate church official is required, along with an essay from the candidate reflecting on the individual's theological development and commitment to a career in the church. This certification should be received by TCU prior to May 1 for the fall semester and November 1 for the spring semester.

Prior to May 1 each year, all recipients will re-certify their intention to enter a full-time church vocation and present evidence of their progress toward that goal. The home congregation, the TCU Scholarship Committee and the Department of Religion will review the re-certification. Award decisions will be based on several factors including academic record, applicant's essay and letter of recommendation. Candidates who are members of the Christian Church (Disciples of Christ) will be given preference. Financial eligibility as demonstrated by the FAFSA will be considered although it will not be an absolute prerequisite for receiving an award.

Recipients of a church vocation grant/loan must enroll in an undergraduate program leading to a baccalaureate degree from TCU. They are required to major or minor in Religion or major in church music. Minimum renewal requirements are a 2.5 TCU cumulative GPA and successful completion of at least 24 semester hours during the academic year. Recipients are required to sign a promissory note which indicates that should circumstances change and they not enter a full-time church vocation, this award will be repaid to TCU as a loan, plus interest of 8% for students who entered in the fall of 1983 or later. Recipients who do complete their preparation and go into church vocations will have this obligation reduced at the rate of 20% per year and at the end of five years will have completely removed the obligation. It is the responsibility of each recipient to advise the Office of Scholarships and Student Financial Aid of the full-time church vocation work he or she is doing in order to receive cancellation of this obligation. Applications for church vocation awards may be obtained from the Director of Scholarships and Student

Financial Aid at TCU.

Christian Youth Fellowship (CYF Grant). Through the cooperation of the Christian Church (Disciples of Christ), TCU is able to offer tuition assistance to regional officers of the Christian Youth Fellowship. These awards will be in an amount not to exceed one-half tuition for up to 18 hours per semester and is renewable for eight semesters providing the student meets the criteria for financial aid satisfactory academic progress. Additionally, a TCU cumulative 2.5 GPA is required for renewal.

Minister and Minister's Dependent Grant. Through funds provided by the Christian Churches of Texas, New Mexico and Louisiana, partial-tuition grants are available to certain categories of "closely related" students attending TCU. Included are:

1. spouses of full-time students of Brite Divinity School, the graduate seminary;
2. unmarried youths under 23 years of age who are dependent children of Christian Church ministers in full-time active service (including missionaries) and youths of Juliette Fowler Home (including employees of the Home);
3. spouses of full-time Christian Church (Disciples of Christ) ministers and
4. full-time Christian Church (Disciples of Christ) ministers who wish to continue their education on a part-time basis in the undergraduate program.

Students enrolled full-time in the regular undergraduate program are entitled to one-half tuition grants for up to 18 hours per semester. Applications must be made by May 1 each year.

Federal Grant Programs

Eligibility for the following programs is based upon receipt and evaluation of the FAFSA. The FAFSA must be submitted no later than March 15 for fall entry and September 1 for spring entry. These dates ensure that this information will arrive at TCU prior to the deadline of May 1 and November 1, respectively. These programs are subject to the provisions stated in General Policies, listed earlier in this section of the Bulletin, as well as specific programmatic requirements as defined.

Federal Pell Grant. This is a federally funded grant for undergraduate students only. The maximum amount of the grant is established by the U.S. Department of Education on an annual basis. Grants range from \$200 to \$3,750 depending on federal allocations and eligibility.

Federal Supplemental Educational Opportunity Grant (SEOG). The average SEOG award at TCU is approximately \$400 per academic year. Eligibility extends to completion of the first undergraduate degree. All SEOG awards are dependent on the funding levels approved by federal government appropriations and awards to the institutions.

State and Institutional Grant Programs

Eligibility for the following programs is based upon receipt and evaluation of the FAFSA. The FAFSA must be submitted no later than March 15 for fall entry and September 1 for spring entry. These dates ensure that this information will arrive at TCU prior to the deadline of May 1 and November 1, respectively. These programs are subject to the provisions stated in General Policies, listed earlier in this section of the Bulletin, as well as specific programmatic requirements as defined.

TCU Grant. Students with financial eligibility are considered for participation in this program. The results of the FAFSA, class rank and SAT/ACT are reviewed. The award is based upon the quality of the entire applicant pool. Renewal is based upon results of the FAFSA and a minimum TCU cumulative GPA of 2.5.

Middle Income Assistance Program. Awards vary, generally between \$500 and \$2,550.

Tuition Equalization Grant (TEG). The State of Texas sponsors a program to help equalize the cost of tuition between independent universities and the state public institutions. TCU participates in this program. To qualify, a student must:

1. be a Texas resident as defined by the Texas Higher Education Coordinating Board;
2. establish financial eligibility as evidenced by the FAFSA;
3. not be the recipient of an athletic scholarship during the semester the student is receiving the TEG;
4. not be enrolled in a theological or religious degree program;
5. provide results of a processed FAFSA no later than May 1 for fall and November 1 for spring.

Leveraging Educational Assistance Partnership (LEAP). LEAP may be combined with the TEG to assist undergraduates who have established additional eligibility through the FAFSA. The number awarded and the amount of the award are dependent upon the availability of funds provided by the federal government.

TEXAS Grant Program. The state of Texas sponsors a program to provide a grant of money to enable academically prepared, eligible students to attend public and private nonprofit institutions of higher education in Texas. TCU participates in this program. To qualify, a student must:

1. be a Texas resident as defined by the Texas Higher Education Coordinating Board;
2. establish financial eligibility as evidenced by the FAFSA;
3. graduate from a public or accredited private high school in Texas no earlier than Fall 1998 or receive an Associates Degree in May 2001 or later;
4. complete the recommended or advanced high school curriculum or its equivalent;
5. not be convicted of a felony or a crime involving a controlled substance.

Programs for Non-Traditional Students

Responding to the needs of several types of part-time, adult and non-traditional students, TCU offers the following programs. Information and applications may be obtained by contacting the Office of Scholarships and Student Financial Aid, Sadler Hall 108, telephone (817) 257-7858. Students receiving assistance through these programs must maintain the standards set forth in the Undergraduate Student Financial Aid Statement of Satisfactory Academic Progress outlined elsewhere in this Undergraduate Studies Bulletin.

Personal/Professional Development Grant. Awards are available to qualified part-time, independent students at least 22 years of age. These first-come, first-served grants are available to students who often do not qualify for other forms of financial assistance. With the exception of Pell Grants and educational loans, these grants may not be combined with other TCU-administered aid.

Alumni Half-Tuition. Persons with TCU degrees are eligible to take additional undergraduate courses, except for performance music, at half-tuition. Funds for this program are limited and some restrictions apply. A student may not be receiving tuition costs from any other source with the exception of educational loans and may not combine this award with other financial aid administered by TCU. A student concurrently enrolled in a graduate degree program at TCU may not combine this award with aid through a Graduate Department. Readmission to the University as a non-degree student is available through the Office of Extended Education. For admission as a degree-seeking student contact the Office of Admissions. This assistance is awarded on a funds and space available basis to students who register on the second day of late registration. Applications, which may be completed in advance, are available in the Office of Scholarships and Student Financial Aid, Sadler Hall 108.

City of Fort Worth Grant. City of Fort Worth employees are eligible to receive tuition assistance in accordance with a cooperative agreement between TCU and the City of Fort Worth.

Employment Programs

Federal Work-Study Program (FWS). This federally funded program provides jobs for students who have financial eligibility as evidenced by the FAFSA and who wish to earn a part of their educational expenses. Students employed through this program must be capable of maintaining good standing in their course of study while employed. This program will also be used in combination with other types of financial aid to package awards. Job placement for FWS students is handled through the Career Services Office. Community service opportunities, including the America Reads program, are available either on or off campus. Student employees are paid by check every two weeks for actual hours worked.

University Student Employment. TCU offers a number of student jobs through the various departments on campus. Eligibility is not necessarily related to the FAFSA.

Employment in the Fort Worth Area. Students may also find employment in the Fort Worth area. Business establishments adjacent to the campus frequently employ TCU students. Other business enterprises in more distant areas of the community also employ TCU students who have means of transportation to and from the job. Employment opportunities in the area are particularly advantageous to students who are pursuing certain career fields where on-the-job training may be helpful. The Career Services Office provides assistance in helping students locate these types of employment.

Residence Hall Assistants. There are several staff positions for upper-class students as Resident Assistants in each residence hall. Required are leadership ability, an appreciation for the University's educational philosophy, and a concern for other students' needs. Applications should be made to the Office of Residential Services. Dates for applications are announced each spring.

Student Loan Programs

Loans must be repaid and require the signing of a promissory note. There are several types of loans available to students attending TCU.

Federal Carl Perkins Student Loan (formerly National Direct Student Loan, NDSL). TCU is the lender. Eligibility is determined by the FAFSA. This program has a 5% per year interest rate. No payment of principal or interest is required nor does the interest accrue until one ceases to be a half-time student (normally carrying 6 semester hours). Repayment begins nine months after one is no longer enrolled at least half-time. One may prepay (early payment) at any time while incurring no additional charge. Normal payment is a minimum of \$40 per month over a period of up to ten years. A signed promissory note is required.

Nursing Student Loan (NSL) TCU is the lender. Eligibility is determined by the FAFSA. This program has a 5% per

year interest rate. No payment of interest or principal is required nor does the interest accrue until one ceases to be at least a half-time student (normally carrying 6 semester hours). Repayment begins nine months after one is no longer enrolled at least half-time. Normal repayment is a minimum of \$15 per month over a period of up to ten years. Applicants must sign a promissory note in Sadler Hall Room 108 during the first five days of classes or the loan may be cancelled.

Federal Stafford Student Loan (FSSL). Formerly Guaranteed Student Loan (GSL). Eligibility is determined by the FAFSA. TCU is not the lender. The applicant may choose any bank, savings and loan association, credit union, or other traditional lender that participates in the student loan program. The Office of Scholarships and Student Financial Aid maintains a list of lenders that are used by a number of TCU students and that provide a satisfactory level of service to students. For new borrowers, the interest rate is a variable rate, which will never exceed 8.25% annually. Borrowers with an outstanding loan balance prior to July 1, 1994, should review their disclosure statements for applicable interest rate information. Normally, the repayment period for the loan will be ten years. The federal government pays the interest during the period of at least half-time enrollment and during the six-month grace period.

Undergraduate students may borrow up to \$2,625 during the first year of study, \$3,500 during the second year of study, and \$5,500 per year for subsequent years of study to a maximum of \$23,000. Repayment begins six months after one is no longer enrolled at least half-time. The lender will deduct a federally mandated origination fee up to 4% from the proceeds of the loan at the time of disbursement.

Borrowers may not participate in this program and the Hinson-Hazlewood Stafford Student Loan Program during the same loan period.

Unsubsidized Federal Stafford Student Loan. The FAFSA is required. Eligibility is determined by subtracting other forms of aid from the TCU 'Estimated Cost of Attendance' as defined by federal law. Terms and interest rates are the same as for the FSSL with the following exceptions: interest on the Unsubsidized FSSL must be paid monthly, quarterly, or be added into the principal amount of the loan.

Dependent undergraduate students may borrow up to the following maximums by combining FSSL with the Unsubsidized Federal Stafford Loan: \$2,625 during the first year of study, \$3,500 per year during the second year of study, and \$5,500 per year for subsequent years of study to a maximum of \$23,000.

Independent undergraduate students may borrow up to the following maximums by combining FSSL with the Unsubsidized Federal Stafford Student Loan: \$6,625 during the first year of study, \$7,500 during the second year of study, and \$10,500 per year for subsequent years of study to a maximum of \$46,000.

Hinson-Hazlewood Stafford Student Loan. The lender is the Texas Higher Education Coordinating Board. This loan is available to Texas residents who have demonstrated financial eligibility through completion of the FAFSA and are enrolled at least half-time. The yearly loan maximums are identical to the Federal Stafford Student Loan Program. For continuing borrowers, the interest rate is 7% per year. For new borrowers, the interest rate is a variable rate, which caps at 7% per year. Repayment begins following a six to nine month grace period after the student is no longer enrolled. Minimum monthly payment is \$50.

Borrowers may not participate in this loan program and the Federal Stafford Student Loan program during the same loan period.

Hinson-Hazlewood Unsubsidized Stafford Student Loan. The lender is the Texas Higher Education Coordinating Board. The loan is available to Texas residents. The eligibility and interest payment requirements are the same as those for the Unsubsidized Federal Stafford Student Loan. The interest rate is 7% per year for continuing borrowers and a variable rate which caps at 7% for new borrowers.

Borrowers may not participate in this loan program and the Unsubsidized Federal Stafford Student Loan program during the same loan period.

Hinson-Hazlewood College Access Loan (CAL). The lender is the Texas Higher Education Coordinating Board. This loan is for Texas residents or recipients of competitive academic scholarships of at least \$500 who are enrolled at least half-time and requires completion of the FAFSA. A loan may be up to \$7,500 per year to a maximum of \$37,500. This program has a 9% simple interest rate and repayment begins six months after the student ceases to be enrolled at least half-time.

Federal Parent Loan For Undergraduate Students (PLUS). TCU is not your lender. A parent of an undergraduate student may borrow an amount up to the 'estimated cost of attendance' as defined by federal law minus other forms of financial aid. The program has a variable interest rate, which for new borrowers has a 9% cap. Borrowers with an outstanding loan balance prior to July 1, 1994, should review their disclosure statements for applicable interest rate information. Repayment of principal and interest begins approximately 60 days following disbursement and allows the borrower up to ten years in repayment.

Etta Newby Loan. TCU is the lender. This program requires Texas residency with preference given to Fort Worth high school graduates. A FAFSA must be filed. Applicants must have at least a 2.5 overall grade point average. Freshmen must have at least a 950 SAT/23 ACT. The maximum borrowing is \$2,000 per year, \$8,000 aggregate. There is no interest charged; however, recipients are expected (not required) to make contributions to the fund after the debt is repaid. Repayment begins one month after the student graduates or ceases to be at least a half-time student at TCU. Funds are limited.

Emergency Loans. TCU has additional funds provided by friends and alumni to be used in emergency situations. Loans are short term and must be repaid during the same academic year. Loan applications are reviewed by a loan committee.

Other Financial Assistance Programs

Tandy Grant. Charles Tandy established a trust fund in 1975 for the purpose of underwriting grants for employees of the Tandy Corporation and their lineal descendants (i.e., children and grandchildren.) The dollar amount of the grants varies from year to year, depending upon the number of applicants and the amount available from the fund. Students may apply for the minimum grant simply by completing the application form, which may be obtained in the TCU Office of Scholarships and Student Financial Aid. A FAFSA is required in order to be considered for more than the minimum grant. This award is subject to the General Policies of All Programs as outlined elsewhere in this Bulletin.

International Student Awards. A limited number of awards are available for international students based upon financial need and/or merit. The award amounts vary. Awards are subject to the General Policies of All Programs and the Undergraduate Student Financial Aid Statement of Satisfactory Academic Progress.

Summer International Study Grant. A limited number of grants are available for continuing TCU students in degree seeking programs. The award amounts vary. Students must file a FAFSA for the academic year preceding the summer international study to be considered. Awards are subject to the General Policies of All Programs and the Undergraduate Student Financial Aid Statement of Satisfactory Academic Progress.

ROTC Scholarship Programs. The U.S. Army and Air Force defray some or all expenses for tuition and fees, provide a textbook allowance, and pay \$150 per month to highly qualified young persons selected to participate in the ROTC College Scholarship Program. Successful completion of the ROTC course and all academic requirements for a bachelor's degree qualifies participants for an officer's commission in the Air Force or Army. A service obligation is incurred by those commissioned through this program. Awards are available to entering freshmen as well as to current TCU students.

Four-year and Three-year Advance Designee ROTC Scholarship winners are eligible to compete for a limited number of ROTC activity awards. To be considered, the student must meet the scholarship deadline (January 15) and the financial aid deadline (May 1). Inquiries should be made directly to the Professor of Military Science (Army) or the Professor of Aerospace Studies (Air Force) at TCU.

Veterans Administration (V.A.) The Office of the Registrar will assist individuals eligible for veteran educational assistance benefits.

Vocational Rehabilitation. The Texas Rehabilitation Commission (TRC) offers assistance for tuition and non-refundable fees to students who have certain disabling conditions provided their vocational objectives have been approved by a TRC counselor. Examples of such conditions include orthopedic deformities, emotional disorders, diabetes, epilepsy, and heart conditions. Other services are also available to assist the handicapped student to become employable. Application for such service should be made at Texas Rehabilitation Commission, Fort Worth District Office.

Undergraduate Student Financial Aid Statement of Satisfactory Academic Progress

All students must maintain certain requirements to receive financial aid. Credit hours attempted, credit hours completed and TCU grade point average are reviewed in June at the conclusion of each academic year to determine whether satisfactory progress is being maintained. Additionally, a student on academic warning or academic probation will be reviewed at the conclusion of each academic semester. (See Sections I, II, III.)

The following statement outlines the requirements for satisfactory progress and how those requirements are monitored. Enrollment status is determined on the final day of the 100% refund period.

Section I-Full-Time Undergraduate Student (12+ hours/semester):

- A. Complete and receive academic credit for at least 24 hours annually. (See Section V.)
- B. Maintain a TCU grade point average (GPA) of at least 2.0 on hours completed.
- C. Not be on academic probation.

Section II-3/4-Time Undergraduate Student (9-11 hours/semester):

- A. Complete and receive academic credit for at least 6 hours per semester.
- B. Maintain a TCU grade point average of at least 2.0 on hours completed.
- C. Not be on academic probation.

Section III-1/2-Time Undergraduate Student (6-8 hours/semester)

- A. Complete and receive academic credit for 50% of the number of hours for which enrolled. (See Section V.)
- B. Maintain a TCU cumulative grade point average of at least 2.0 on hours completed.

C. Not be on academic probation.

Section IV-Less Than Half-Time Undergraduate Student (1-5 hours/semester)

A. Complete and receive academic credit for all courses for which enrolled. (See Section V.)

B. Maintain a TCU cumulative grade point average of at least 2.0 on the hours completed.

C. Not be on academic probation.

Section V-Criteria Used to Evaluate Grades

A. The following will be counted as credits completed: A through D grades, and P.

B. The following will not be considered as credits completed: F grade, W or Q, I, and

AU; Repeated Courses; Advanced Placement (AP); College Level Examination Program (CLEP); College Board Achievement Tests in Foreign Languages (ACH).

C. Repeated courses will not be counted as credits completed unless the student previously received a grade of F in the course or a grade of D in a course in which a grade of C or higher is required for degree completion. A student affected by either of these situations must notify the Office of Scholarships and Student Financial Aid for an individual review.

Section VI-Schedule of Completion of Degree Requirements - Full-Time Student

Satisfactory completion of academic work for receipt of financial aid is also measured in annual increments beginning with the fall semester.

A student who completes fewer than the required number of hours for any increment may attend summer school to re-establish eligibility for financial aid for the following semester. *Aid may then be awarded on a funds-available basis.* If intending to transfer work to TCU, the individual's academic dean must approve the course work as applying toward a TCU degree. Full-time students will not be allowed more than five years of financial assistance.

Section VII-Schedule of Completion of Degree Requirements: Part-Time Student

A student who has registered as a part-time student (11 semester hours or fewer) in at least two of the last four semesters, excluding summer school, will be allowed a total of six years of financial assistance. For those students whose academic career has consistently been part-time, an extension of this time limit is available based on an individual review.

Section VIII: Financial Assistance Probation

A student will be expected to maintain satisfactory academic progress (TCU cumulative GPA) as defined in Section(s) I, II, and III while in attendance. If a student does not progress at the required rate, he/she will be placed on financial aid probation. Should the student not obtain the required elements to remove himself/herself from probation or if the student is placed on academic probation or continued on academic probation a second time, the student will then be placed on financial assistance suspension (see Section VIII).

Section IX: Financial Assistance Suspension

Financial assistance suspension is the loss of aid for a specific period. The student will not be allowed to participate in any university, state or federal programs, including all educational loan programs. A student will remain on financial aid suspension until he/she is removed from academic probation.

Section X: Appeals Procedure

If a student is denied financial aid because of lack of satisfactory academic progress, he/she may appeal the denial of assistance. The student must make the appeal in writing to the Scholarship Advisory Committee. The Scholarship Advisory Committee will meet in mid-July and mid-August to review appeals for the fall semester. The Committee will meet in early January to review appeals for the fall semester. Appeals not received in writing with supporting documentation by August 1 for the fall semester and January 6 for the spring semester will not be accepted. Appeals must be submitted by July 1 for the July meeting, August 1 for the August meeting, and January 6 for the January meeting. Appeals not received in writing with supporting documentation by the deadline will not be accepted. The student will be notified of the decision as soon as possible after the Committee meets.

Section XI: Reinstatement of Aid

If the appeal is not approved or if a student does not appeal, one of the following conditions must be satisfied before the student is eligible to receive aid again:

A student must attend TCU without the benefit of financial aid two full semesters during the regular academic year. In addition to maintaining the grade point average, the student must also satisfy the requirements of the "Schedule of Degree Requirements" (see Sections VI and VII) before aid is reinstated.

or

A student can cease enrollment at TCU for two full semesters during the regular academic year. Assistance will be reinstated for one semester upon the student's re-entrance. Renewal of aid for the next semester will be based upon compliance with Sections I, II and III with the exception of subsection A on each section.

Section XII

If an appeal or summer school work makes a student eligible for aid for the following year, the student will be considered for all aid for which he/she is eligible and for which funds are still available on the date eligibility is reinstated.

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The Honors Program

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The Honors Program holds as its central purpose and philosophy the stimulation and encouragement of academic activity at the highest level. It strives to bring together dedicated faculty and highly motivated students who share a commitment to the finest qualities of scholarship. Through collaboration with each school and college of the University, the Honors Program provides opportunities for the intellectual growth and fulfillment of students in all disciplines as well as of the many faculty who share a commitment to these ideals.

The Honors Program strives to meet its goals through its varied curriculum and the collegial nature of its co-curricular activities. The curriculum provides opportunities for in-depth study and research in the student's chosen discipline and also offers a variety of interdisciplinary programs intended to provide breadth of scope and perspective in the tradition of a liberal arts education.

Co-curricular functions such as the Fall Escape are designed to foster that intellectual stimulation which is achieved only through out-of-class interaction among scholars from all components of the University. The celebration of Honors Week each spring provides an opportunity to promote and recognize academic achievement across the campus.

Admission

Freshmen. Admission of incoming freshmen to the Honors Program is by invitation. The TCU Honors Council sets the invitational standards for each incoming class, based on SAT or ACT scores and high school transcripts. Invitations are sent out in early April to high school seniors who have been accepted to TCU and meet these standards. Highly motivated students with excellent records that fall slightly below the invitational criteria are also encouraged to seek invitation to the Program by contacting the Director.

Transfers. Transfer students are eligible to join the Honors Program if they have achieved a 3.40 GPA in all previous college work. (For students with fewer than 24 hours, high school transcripts and SAT or ACT scores will also be evaluated.) Transfer students must meet all Honors Program curriculum requirements, including the Lower Division Requirements listed below. However, they are invited to request that selected courses taken at other institutions be applied toward Honors Program requirements at TCU. Approval of such requests will be at the discretion of the Director of the Honors Program and no more than 9 hours may be applied.

Current TCU Students. Any current TCU student who has both a TCU cumulative and an overall cumulative GPA of 3.40 or higher is eligible to join the Honors Program. Students who enter the Program after they have matriculated at TCU must meet all Lower Division Requirements listed below. Interested students are encouraged to contact the Director of the Honors Program.

Requirements

Lower Division Requirements

All Honors students must complete *either* the Honors Civilizations Track *or* the Honors Intellectual Traditions Track to fulfill the Lower Division Requirements.

Honors Civilizations Track (15 hours)

Students who elect this track will take two related courses (6 hours) selected from the several pairs offered in which various elements of a particular culture or civilization will be traced. The purpose is to allow students to develop an understanding of the art, literature, music, science and/or other facets of that culture or civilization.

The remaining nine hours of this track of Lower Division Honors work must be taken from the Honors sections of first- and second-year level courses offered in departments throughout the University. These Honors sections provide an additional measure of sophistication and challenge and are taught by faculty members selected for their commitment to high academic standards and dedication to motivating good students. Because Honors sections generally are smaller than other similar courses, they are frequently the arenas for more interactive teaching methods.

Honors Intellectual Traditions Track. (15 hours) Students who take the 3-semester, 9-hour Honors Intellectual Traditions sequence are strongly encouraged to begin their freshman year with an Honors Freshman Seminar in the fall semester. Honors Intellectual Traditions begins in the fall semester of the freshman year and continues until the spring of the sophomore year. Three additional hours in an Honors section of their own choosing are also required.

Upper Division Requirements

Honors students who have completed the sophomore year with a GPA of 3.40 or higher and have fulfilled the Lower Division Requirements are recognized as Associate Honors Scholars and are invited to participate in Upper

Division Honors, pursuing programs leading to degrees awarded with Departmental Honors and/or University Honors.

Departmental Honors. Departmental Honors involves intense study in the student's chosen major, typically consisting of a junior or senior level seminar and a Senior Honors Project. This project may be presented in several forms, for instance, a paper reflecting original research or creative study, a portfolio or original composition in literature or one of the fine arts, or a documented performance in the arts. In the fall semester of the senior year, a student pursuing Departmental Honors chooses a professor to supervise the project who together with two additional faculty members form the student's project committee. These three faculty members work closely with the student and during the spring semester approve the work as being worthy of the Departmental Honors distinction. Most departments in the University have programs leading to Departmental Honors. For a listing of all such departments and for detailed information concerning the form of the Senior Honors Project, please contact the Honors Program Office.

University Honors. University Honors encourages interdisciplinary thought during the junior and senior years. In small seminar settings, students explore questions that have challenged thinkers through the centuries: What is the nature of values, of society, of the universe? What does it mean to be human? Requirements for graduation with University Honors are (1) proficiency in a foreign language at the sophomore level and (2) satisfactory completion of the four interdisciplinary Honors Colloquia, HCOL 40023, 40033, 40043, and either HCOL 40013 or HNRS 40103. Students may, if space is available, take one or more of the Colloquia even if they elect not to pursue the full course of study leading to University Honors.

Additional Requirements

Enrollment in Honors Courses. All freshman and sophomore Honors students must enroll in at least one Honors course each semester until they have completed their Lower Division Requirements.

GPA Requirements. To remain in the Honors Program, students must achieve a 3.00 TCU cumulative GPA at the end of the freshman year and a 3.40 TCU cumulative GPA at the end of the sophomore year. Students must have both a TCU cumulative GPA and an overall cumulative GPA of 3.50 to graduate with Honors Program distinctions.

Pass/No Credit Policy. Courses to fulfill Honors Program requirements may not be taken on a Pass/No Credit basis.

Graduation with Honors

A student is recognized as having attained Departmental and/or University Honors during the graduation ceremonies, and his or her diploma and transcript indicate that the degree was awarded with Honors distinctions. Such Honors are conferred by the Honors Program on the basis of the student's having a GPA equal to or greater than 3.50 with at least 58 semester hours of academic work having been completed at TCU (exclusive of credit by examination), and the student's having completed the stated criteria for Departmental and/or University Honors.

The following is a complete list of courses offered by this department. Go to Class Search to see which courses are being taught this semester.

Courses of Instruction

Honors Intellectual Traditions

Honors Intellectual Traditions is an interdisciplinary, team-taught, 9-hour, 3-semester course relating history, religion, literature, philosophy, art, and the natural and social sciences. By relying on many of the great books and art works of Western civilization, this course provides students with a challenging introduction to the ideas and images that have shaped our culture. Honors Intellectual Traditions apportions its 9 interdisciplinary hours in three courses:

HHIT 10113. Explores the question of purpose or teleology among the most provocative thinkers in Western history, especially in philosophy, religion, science, literature and art.

HHIT 20123. *Prerequisite: HHIT 10113.* Continuing the exploration of provocative thinkers and artists, this semester's readings examine the notion of order.

HHIT 20133. *Prerequisites: HHIT 10113, 20123.* Extends the interdisciplinary investigation of Western culture as it struggles with the concept of change.

On completing the 9 hours of HHIT 10113, 20123, and 20133, students will receive credit in the Explorations component of the University Curriculum Requirements as follows: 3 hours of Physical/Life Sciences (non-lab), 3 hours of Critical Inquiry, and 3 hours of Historical Studies (non-US). Students who do not finish all three semesters will receive elective academic credit for the number of hours completed.

Honors Colloquia

HCOL 40013. The Nature of the Universe. An examination of interdisciplinary aspects of physical and natural science; the submicroscopic world and the cosmos; cosmology; developments in modern biological and genetic research; mathematics and logic; the nature of scientific inquiry and our understanding of the physical world.

HCOL 40023. On Human Nature. An examination of the development of our self-understanding, the origins of human culture and the study of contemporary culture as it affects the individual.

HCOL 40033. The Nature of Values. An examination of contemporary value systems through the study of certain

intrinsic values as revealed in a variety of readings, thought patterns and human creations.

HCOL 40043. The Nature of Society. An examination of the structure, functions, and processes of our social, political, and economic institutions.

HNRS 40103. Origins. An interdisciplinary course addressing the origins of time, order, change, the universe, earth, man, and human cultures, involving cooperative interaction of faculty from anthropology, biology, and geology.

Other Courses

HSPR 40970. Honors Special Projects. An Honors student interested in undertaking special independent study may, with appropriate permission, register for HSPR 40970 for 1 to 6 hours of credit. This may be utilized as a summer reading course or free elective. Under special circumstances, it may be used in lieu of a Departmental Honors seminar or an Honors Colloquium to fulfill requirements for Departmental or University Honors.

For further information. Contact the Honors Program, Sadler Hall 207, Texas Christian University, TCU Box 297022, Fort Worth, TX 76129; Telephone: (817) 257-7125; Fax: (817) 257-6987; E-mail: Honors@tcu.edu.

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Student Affairs Services and Opportunities

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The Division of Student Affairs at TCU ascribes to and supports the stated philosophy, goals and objectives of the University. As an integral part of TCU, the Division places specific and intentional emphasis on providing opportunities for students to grow and develop within this context. TCU offers a rich learning environment, and through the university experience, students engage in an intensive process of intellectual, personal, moral and social development. The Division holds a special but not exclusive responsibility to assure that the co-curricular learning experiences of students are of high quality, are directed to the development of students, and meet both institutional and individual student needs.

The Division complements the academic mission of TCU. Through programs, activities, and services, the Division strives to assure that graduates are prepared to assume roles as productive citizens. Therefore, there is an emphasis on leadership, the ability to accept responsibility and to behave responsibly, understanding the global economy and a diverse society, developing opportunities for critical thinking and application of classroom learning, and preparing students for life transitions.

The following units and departments comprise the Division of Student Affairs: Residential Services (Housing and Residence Life, Dining Service, Identification Card Center); Health Services (Health Center, Counseling Center, Psychological Services, Health Education); Campus Life (Judicial Affairs, Student Activities, Student Center, Fraternity and Sorority Affairs, International Students); Student Development Services (Intercultural Education and Services, New Student Orientation, Leadership Development, Women's Programs, Alcohol and Drug Education, Recreational Sports); and Campus Police (Security, Crime Prevention and Parking). The Vice Chancellor for Student Affairs provides leadership for the Division.

Residential Services

Living in a TCU residence hall is an integral part of the TCU experience. Residence hall students make new friends, get involved in campus activities, and discover opportunities for personal and intellectual growth. Residence halls are conveniently located on the campus, and the halls provide a comfortable room that a student can call "home" while at TCU.

A majority of the undergraduate students at TCU live on campus. Through academic, cultural, intramural, and social activities, students within each hall determine the hall's character. Participation in these activities assists in the student's adjustment and development within a residential setting.

Residence hall rooms are designed for student comfort and are used for study as well as sleeping and socializing. All accommodations are air-conditioned. Most rooms are designed for double occupancy. The basic student room contains a bed, a desk and chair, a chest, and a closet for each student. Each room is also equipped with access to the Internet, TCU Cable Television, and telephone services. Students are encouraged to add decorative items to personalize their surroundings.

The residence hall office is a primary resource on campus. The Hall Director, a live-in professional who administers the hall, serves as an adviser to students. Each hall has Resident Assistants (RAs) who are sensitive to student needs and alert to student concerns. The hall staff knows the many University resources and can help students find needed assistance.

Residence hall programs at TCU assume that the most productive learning environment extends into all areas of a student's life. All residence halls offer a broad range of programs, which may include social programs, physical activities, career information, study skills, personal management skills, spiritual involvement, and self-help aids. Programs are designed to meet the unique interests of the student population in a particular residence hall. Student involvement enhances the creation of a distinctive hall environment.

Residence Requirement. All freshman students (defined as students with less than 24 earned credit hours) under 21 and enrolled for nine or more semester hours are required to live in a residence hall unless they are married, divorced, or live with parents. Students enrolled for fewer than nine hours may live in a residence hall only with special permission from Residential Services. Housing contracts apply to the entire academic year. Short-term housing contracts for the fall semester are accepted only from graduating seniors. Students over 25 will be housed

by special permission only on a space available basis.

Housing Reservations. Newly admitted students will generally receive information about housing two to three weeks after notification of admission. A signed/dated payment coupon (which indicates review of the Residence Hall and Dining Service Contract) and the housing deposit must be returned to establish an assignment priority date. The priority date is the day the signed/dated payment coupon and the housing deposit are received by the University. Students are assigned to housing based upon their established priority date.

Continuing or returning students should make housing reservations each spring for the following fall. This reservation period has two phases: (1) for students continuing in a same hall and (2) for students wishing to change halls. A housing deposit and a signed/dated payment coupon are required to confirm a reservation for a continuing student. Continuing students who fail to reserve a room by the announced date will lose their priority for housing.

The housing deposit is credited to the student's University account immediately, thereby immediately applied as credit for University charges as billed. Upon submission, the Housing Deposit is subject to the schedules associated with Pre-Residence Contract Cancellation Charges as outlined in the contract.

Students receiving full financial aid may request to have the Housing Deposit waived by completing appropriate waiver forms available from Residential Services. Any student receiving a Housing Deposit Waiver who cancels his or her housing reservation will be charged a Housing Deposit Waiver Cancellation Charge in the same manner as if the Housing Deposit had been paid and according to the schedules for Contract Cancellation Charges outlined in the contract.

Any student who terminates his or her contract prior to occupancy will be credited or charged (as appropriate) as outlined in the Contract Cancellation Charges portion of the contract.

A current resident who is eligible to live off campus and wishes to terminate a housing agreement for the final semester of the contract must notify Residential Services in writing. Contract Cancellation Charges will be imposed according to the schedules outlined in the contract.

Any student who terminates his or her contract subsequent to occupancy and after an established date must give written notification, including a statement of reasons for termination, to Residential Services. Contract termination subsequent to occupancy will result in housing charges for the full semester. The student may appeal the charges. Each case will be considered independently.

Housing Preferences. While consideration is given to all preferences for hall, room, and roommate, the University assigns accommodations according to the availability of residence hall space. The right to make reassignments is reserved by the University. The University makes room assignments without regard to race, creed, religion, or national origin.

Private Rooms. An additional fee is charged for single rooms and for double rooms occupied by one person. First semester freshmen are not eligible for private rooms. Private rooms are assigned on the basis of priority determined by classification and other criteria established by Residential Services. After the first day of classes, students living alone in a double occupancy room must either pay for the private room or participate in the consolidation process with other residents in a similar situation. The University guarantees the private accommodations for one semester only, but students with private rooms in the fall semester are given priority to continue their private accommodations for the spring semester.

Other housing information and current regulations are distributed to students at the beginning of each semester. Detailed housing information may be viewed at www.rlh.tcu.edu/rlh/

Student ID Card

Your TCU ID Card is your access key to many University resources. It is permanent and may be used as long as you are enrolled at TCU. If at any time you have any questions or problems with your ID Card, contact the ID Card Center in the Student Center, Room 221 or phone (817) 257-7856.

How it works. Your ID is a computerized plastic card, bearing your photo and TCU ID number, with a magnetic stripe on the back. Each time the card is inserted in a card reader, the data encoded in the magnetic stripe is electronically scanned and sent back to a central computer for verification. The system then transmits whether the card is valid and the transaction accepted.

Where to use your card. You will use your card for: Dining Services, TCU Book Store send home charges, copying in the Library and Frog Prints, entry into the Rickel Building, Health Center services, athletic event admission, admission to many TCU events, voting in student elections, and to verify identity if requested by TCU Police. In some residence halls your card is used for: door access, laundry, and soda and snack vending machines.

Lost or Stolen. Card owners are responsible for reporting lost or stolen cards PROMPTLY, to assure that no one else uses your card. Report lost or stolen cards to The ID Card Center (Student Center, room 221, (817) 257-7856), TCU Police (257-7777), or any dining services area cashier. Until one of these agencies has been notified, you are responsible for any purchases with your card. There is a replacement charge of \$10.00 for a lost or stolen card.

Please remember. The ID Card remains the property of the University at all times and any abuse of the card could result in loss of privileges. Your card should be in your possession at all times and must be surrendered upon the request of any University official. Upon leaving the University, you must turn in your ID card to your Hall Director or RA, a Fraternity Hall Director, the Dean of Campus Life, or the University ID Card Center.

Dining Service

Good atmosphere, tasty food and a fair price are the goal of TCU Dining Services. Flexible dining hours, convenient locations and a variety of services, including nutritional counseling and catering are available. Dining plans are offered to meet the demands of a student's busy schedule.

Dining service plans are available to all TCU students; however, students living in a university residence hall must purchase one of the dining plans. All TCU dining plans permit students to purchase items individually rather than purchasing a predetermined number of meals. Since these plans are not traditional board plans, there is no cost for missed meals. Students may choose from a wide assortment of food offerings at each meal and the cost of items will be deducted from the student's prepaid dining service account. The amount spent for each meal depends solely on the choices made.

Dining service plans are not designed to cover all of a student's dining cost during a semester.

It is difficult to determine what the actual expenditures will be because individual eating patterns and tastes differ. Some students may need to supplement the originally purchased plan. Additions to a dining service account may be made at any time during the semester. At the end of each semester, refunds of unused funds that have been added to the account will be credited to the student's university account.

Job conflicts and certain academic conflicts (Senior Nursing, Senior Fashion Merchandising, Ranch Management, Student Teaching) may enable students to reduce their dining service plan up to one-half of the minimum requirement. Requests for waivers should be submitted in writing prior to October 1 in fall or February 20 in the spring.

Cash may be used at any time at any of the dining facilities. Dining Service programs are subject to change in accordance with student needs and desires. Questions regarding dining service issues should be directed to TCU Dining Services in the Department of Residential Services.

Student Development Services

The purpose of Student Development Services is to assist each TCU student in achieving his or her potential. The unit provides programs for particular student populations; coordinates leadership education, training and development for the campus community; develops mentoring opportunities for students, faculty and staff; and encourages wellness through physical activity and responsible decisions regarding alcohol and other drugs. The main Student Development Services office is located in Student Center 220. The telephone number is (817) 257-7855.

Commuter Student Services

The Office of Commuter Student Services was created to ensure commuter students remain closely connected to TCU. Through this office we provide a centralized information center that effectively addresses the needs of commuter students. Services include limited free locker rentals, a commuter student on-line newsletter, access to networked computers, and programming events which include a commuter student movie night and our annual commuter student bowling party. For more information, call (817) 257-8555.

Mentoring Programs

TCU Mentoring Programs encompass two levels of experience: underclass students have the opportunity to be mentored by a more experienced student or a member of the faculty, staff or Fort Worth community, while upper-class students may have the chance to become mentors themselves, either within the TCU student body or with younger students in the community. Mentoring relationships are structured in such a way that both the mentor and mentee benefit.

In addition to these individual-mentoring opportunities, a network of "mentors at large" exists for the entire campus. Campus Mentors is a model program created by TCU, designed to improve the well being of young people through existing resources within the institution. This program surveys the student body to find out the "natural helpers" to whom students turn in times of need. Students, faculty and staff identified as Campus Mentors are invited to attend special training opportunities throughout the year.

Intercultural Education & Services

The mission of the Office of Intercultural Education & Services is to promote intercultural awareness and respect for diversity as well as provide students of diverse backgrounds with the resources necessary to transition into college life to succeed on campus and beyond. The Office provides support, guidance and encouragement to TCU students through a variety of services: individual and group advising; student programming; diversity training; educational and technological support; and community involvement. If you would like further information, please contact Darron Turner or Cyndi Campoy at (817) 257-7855 or send e-mail to d.turner@tuc.edu or c.campoy@tcu.edu.

Women's Resource Center

The TCU Women's Resource Center provides a forum on campus for addressing issues that are especially significant for all women. The Center encourages dialogue among students, faculty, and staff. We are committed to programming that invites participation by the broader Fort Worth community. The Women's Resource Center at Texas Christian University calls attention to how our private and public lives intersect within the university and society.

Each year the WRC hosts and collaborates with curricular and co-curricular units on a variety of programming. They vary depending on interest and need. Annual programs that are either hosted or co-sponsored by the Women's Resource Center are: TCU LEAPS - all campus community service day, International Women's Day Celebration - March 8th, and the annual Women's Symposium - scheduled during Women's History month.

To receive more information regarding current programming or to become involved in the WRC contact Marcy L. Paul, Program Coordinator, Women's Resource Center at 817-257-7855.

Allies

Allies of gay, lesbian, bisexual, and transgender students is an informal network of faculty and staff. This group provides individual support to those students on campus and educational advocacy to the entire campus community. The function of Allies is to be available for individual meetings with GLBT students or those who have questions related to sexual orientation with the gay community. Also, an Ally can provide a supportive, confidential place for GLBT students to go on campus. An Ally can recommend facilitators for group programming on the TCU campus related to sexual orientation and the gay community and act as liaisons to the GLBT communities in the Metroplex. Allies is also the support network for eQ Alliance.

Previously known as TCU Triangle, eQ Alliance is the gay, lesbian, bisexual, transgender, and straight student organization. This student group seeks to foster awareness and understanding of the rights and concerns regarding gender and sexual identity. eQ Alliance meets weekly as a student group to share ideas and discourse with faculty, staff, and community members. To receive more information regarding Allies or eQ Alliance, contact Marcy L. Paul, Program Coordinator, Women's Resource Center at 817-257-7855.

New Student Programs

Frog Camp

Frog Camp is a 3-5 day experiential retreat that immerses new students in TCU history and traditions, helps them establish new friendships, and guides them acquiring the skills they need to be successful in college. Each new Horned Frog becomes a part of a small "Frog Group" of no more than 15 students. Along with upper class students and a member of the faculty or staff, Frog Group members will find out what it means to be Horned Frogs and along the way, forge lasting bonds and friendships!

While each of the camps offers a different emphasis, all of the camps will afford campers the same set of core experiences. These common activities are what make Frog Camp a powerful event. The camps differ in scheduled dates, location of camp, and the type of challenge each Frog Group will face. For example, our "Alpine" camp groups encounter some high-adventure activities in the Rocky Mountains. "Resolana" camp groups will experience community service and the great outdoors of the Southwest United States. Our "Challenge" camp groups participate in a team building challenge course, and our "Quest" camp groups work on a community outreach project. And for those students interested in investigating their new home away from home, Frog Camp "Casa Nueva" explores all the history, culture, and excitement that Fort Worth has to offer. A variety of activities including the Frog Camp Luau, Spirit Sessions, Frog Group Discussions, and even a campfire (complete with marshmallow roasting) all ensure that students will have the know-how and friendships they need to make the most of their college years.

Regardless of the camp a student chooses to attend, he or she will leave with a sense of what it means to be a "Horned Frog" and a new set of close friends.

For more information, please call (817) 257-7855, e-mail Carrie Zimmerman at c.zimmerman2@tcu.edu or visit the Student Development Services office in SC 220.

New Student Orientation

The New Student Orientation program is designed to assist students with the transition to university life by providing essential information to help students meet new and continuing students, faculty, and staff. While at Orientation, students meet with an academic advisor and register for the first semester of classes. Each summer there are several sessions from which to choose, with a special session designed for transfer students. There is also a one-and-a-half-day session in January for all new students. New Student Orientation is required for all freshmen. Though orientation is optional for transfer students, it is strongly encouraged.

Transfer Student Services

Upon admission to the University, transfer students are invited to special sessions of Frog Camp and New Student Orientation. Once they arrive, transfers are provided special support services and programs to meet their individual needs.

In addition to these programs, there are other co-curricular opportunities to help new students connect to the TCU community. These include upper-class student "Vanguards" providing a welcome to campus during the traditional Howdy Week, and a unique Bridging the Gap summer program designed to provide special support for the transition to college. In addition, many programs for freshmen are carried out in the residence halls, while the office of Commuter Student Services provides a centralized information and resource center for students who plan to live off campus. Because TCU has an institutional commitment to new students both in and out of the classroom, curricular programs and services such as personal advising and the Adams Writing Center are highlighted in the

Academic Services section of this catalog.

TCU Leadership Center

The TCU Leadership Center offers two outstanding co-curricular leadership programs. These programs are flexible enough to meet the diverse needs of today's students as well as comprehensive enough to ensure a thorough exposure to contemporary leadership topics.

Campus Leadership Forum is designed for students who have a tight personal schedule but would still like to be involved in a quality student leadership program. Organizational involvement, nationally recognized speakers, a community leader dinner, and a student leadership development conference are the highlights of Campus Leadership Forum.

Leadership development classes are designed for students who are interested in dedicating more time and energy to their growth as a leader. The classes offered include: the Chancellor's Leadership Program, Foundations of Leadership, Responsible Citizenship, Community Action, Global Leadership, Ethical Leadership and the Senior Seminar. The leadership classes integrate leadership skills classes, campus and community service opportunities, international experiences, and an annual leadership conference into a comprehensive leadership development program.

Students who complete all components of either Campus Leadership Forum or leadership development classes qualify for the TCU Leadership Center Record. *The Record* is a co-curricular transcript that verifies a student's leadership development activities to potential employers or graduate schools. This is a valuable service available only to students involved in Leadership Center programs.

The TCU Leadership Center acts as a clearinghouse for programs, information and resources related to leadership development and training. Students may take advantage of an extensive leadership library and video collection, or inquire as to campus training resources. The Center also participates in various campus scholarship and leadership award programs designed to support leadership development at TCU.

Additionally, the TCU Leadership Center participates in offering students both for-credit and co-curricular international experiences including Leadership London, a summer international leadership experience through which students may earn academic credit, The Mexico Leadership Exchange Program, through which student leaders at TCU are paired with student leaders at Universidad de las Americas in Puebla, Mexico, and the TCU Study Abroad Program.

For more information call (817) 257-7855 or come by the Leadership Center in SC 220.

Wellness Programs

Alcohol and Drug Education

The TCU Alcohol and Drug Education (ADE) Center is based on a philosophy of student development incorporating personal and community wellness. The Center promotes healthy life-styles and responsible decisions through programs, training and alternative activities. Through the organization Students Reaching Out, the Center encourages students to develop a sense of responsibility for selves, for others, and for their university by assuming leadership in setting behavioral norms for the campus community.

The staff includes a Licensed Professional Counselor, who provides confidential assessments and short-term counseling, as well as experts in programming and training. Programs that are available for academic classes, residence halls, and other student groups include Adult Children of Alcoholics, Women and Alcohol, Drinking and Driving, The Campus Social Scene, Dating Under the Influence, Drugs and Athletic Performance, and How to Help a Friend. An extensive Wellness Resource Library containing books, journals and videotapes is maintained in the ADE Center, 230 Rickel Building.

Students who violate the University's alcohol policy are required to attend an initial one-on-one interview with a professionally trained counselor followed by an educational session administered through the Alcohol and Drug Education Center. The content of the sessions focuses on accurate information on alcohol and other drugs, guidelines for responsible decision-making with regard to alcohol use, and strategies for helping others who may have problems. Students who receive a second violation attend a more comprehensive educational program.

Anyone interested in services available through the Alcohol and Drug Education Center is encouraged to visit the office or call (817) 257-7100.

Recreational Sports and the Rickel Building

The purpose of the Recreational Sports Program is to provide a comprehensive array of competitive and recreational sport and fitness activities designed to meet the diverse needs of TCU students, faculty, staff, and other members of the University community. Through the programs, facilities, and activities listed here, recreational sports provide opportunities for individuals to participate in self-directed recreational activities and team sports, to develop lifetime sports skills, and to develop and maintain a measure of physical fitness. Recreational sports also promote healthy life-styles, contribute to developing participant organization and leadership skills, social and emotional fitness, and assist in creating a desirable campus environment designed to stimulate, promote, and enhance the academic mission of the University.

The Rickel Building for Health, Physical Education, and Recreation is an all-purpose recreation center. It includes three gymnasiums, a swimming pool, a diving well, ten racquetball courts, three aerobic dance studios, a cardio center, complete weight training facilities, and locker rooms. Adjacent to the building are two sand volleyball courts and nine

tennis courts for student, faculty, and staff use. For building hours, call (817) 257-7947.

The Intramural Sports Program offers a variety of structured tournaments ranging from traditional activities such as flag football, softball, basketball, and soccer to nontraditional events such as floor hockey, putt-putt golf, inner-tube waterpolo, and ultimate frisbee. Open to all students, faculty, and staff, most sports offer men's, women's and coed divisions.

The Frog Fit Program offers a wide variety of fitness opportunities for everyone in the University community. Over twenty classes per week, including aerobics, step aerobics, water aerobics, personal training, swim conditioning, and adult fitness, are available.

Sports clubs at TCU are recognized student organizations that are created and administered by students for the purpose of furthering a common interest in a specific sport or sports-related activity. Sports clubs may have a competitive, recreational, instructional, or social focus. Participation is strictly voluntary. Clubs that are currently active on the TCU campus include men's and women's lacrosse, men's volleyball, High Adventure (outdoor recreation), rugby, Tae Kwon Do, roller hockey, rifle, water polo, and ultimate frisbee.

The TCU Challenge Course is an innovative facility that uses high and low elements to create an outdoor adventure experience. Programs are designed to combine risk, challenge, physical activity, cognitive stimulation, courage, support, decision making, and fun into a unique experience that promotes group development and individual growth.

University Ministries

University Ministries is the visible focus for an ecumenical and inclusive ministry with students, faculty and staff. These ministries of worship, care for persons, social justice, fellowship, nurture and other dimensions seek to integrate matters of faith into the routine life and work of the University. The offices are on the first floor of the Student Center and are a gathering place for a full range of programs, services and ministries that enable respect for diverse beliefs.

Through direct involvement in campus organizations, residence halls, campus-wide events, or through personal interaction, University Ministries seeks to provide opportunities for ethical choice and to assist members of the TCU community to examine the implications of faith in our lives. University Chapel, held each Wednesday at noon during the regular University session, is a weekly opportunity to celebrate the ecumenical spirit of the Christian faith. Roman Catholic Mass is held weekly on Sunday evenings. A wide variety of study, retreats, fellowship, service, and care of persons is available through several denominational ministries as well as through the ecumenical expression of the Uniting Campus Ministries.

Many people find themselves in need of temporary or on-going pastoral care assistance to resolve personal, interpersonal, family, or other concerns. Strict confidentiality is maintained for these services and provided without charge.

Students, faculty and staff are urged to discover a local congregation for the important aspects of life in a gathered community of faith. Students of all creeds and faiths are welcome at TCU and in the programs of University Ministries. Direct assistance is provided in expressing individual traditions as well as making contact with community churches, temples, synagogues, mosques and congregations.

Community Service

Resting at the foundation of well-planned responses to the needs and problems in any community is the good will of individuals who are asked to offer their time and talent in a voluntary manner. TCU faculty, staff, and students are involved in doing community service and have a variety of support programs and resources to enhance the quality of that work. Doing service is important, but only half of the experience; there remains the necessity to assess the meaning and the result of the work. A workbook is available for all groups and individuals at TCU to help in planning, doing, and reflecting upon their service opportunities. Information is available for over 300 service delivery agencies in Tarrant County. Assistance is provided in identifying appropriate community service for short-term as well as long-term service (for a summer, a semester, or several years). Long-term service experiences are provided through governmental, private, and church related agencies. Resources and a Community Service Coordinator are available to assist individuals and organizations interested in the variety of service opportunities in the office of University Ministries, (817) 257-7830.

Whether done on a one time or regular basis, students at TCU are annually performing more than 50,000 hours of service in the community. Additionally, students serve on a committee to provide coordination, training, developing, tracking, and evaluation of community service on behalf of the entire TCU community. This is the charge of **TCU CAN (Community Action Network)**. This group of students works with all student organizations with a national network (Campus Outreach Opportunity League) of similar organizations on other campuses to improve the quality of community service at TCU. An annual service event, seeks to provide students with an introductory encounter with community service and an annual "Spill the Beans" campaign seeks to secure information on service accomplished across the campus. Each spring an award is given for the most outstanding example of community service by an organization and by an individual. Several student organizations make service their primary purpose. Some of those include: Alpha Phi Omega, Amnesty International, Best Buddies, Circle K, Habitat for Humanity, Hunger Week, TCU AIDS Care Team. Organizations and individuals are welcome to join or work with each of these TCU organizations.

Health Services

Located west of Colby Hall, the Brown-Lupton Health Center consists of an outpatient clinic providing ambulatory care for the various needs of TCU students.

During the fall and spring semesters emergency care is provided 8 a.m. to 9 p.m., Monday through Friday. Outpatient clinic hours are 9 a.m. - 11:30 a.m. and 1 p.m. - 4:30 p.m., Monday through Friday.

A dedicated, well-qualified staff of physicians, nurses and ancillary personnel provides convenient and economical medical services. Health Center facilities and services are available to undergraduate students taking 6 or more semester hours and to full time graduate students. Other students, spouses, and dependents of students are not eligible for care at the Health Center.

Medical History/Immunizations. Students attending TCU for the first time must complete a Medical History form including a record of immunizations before registration can be completed. All entering students born after 1957 are required to have had two doses of measles (Rubeola) vaccine after 12 months of age or provide proper verification that they have had the disease. The immunization must have been received after January 1, 1968, to be effective. In addition, within the 12 months prior to entering TCU, a Mantoux/TB Skin Test is required of all entering students.

Required Health Insurance

All undergraduate students carrying nine or more semester hours are REQUIRED to have health and accident insurance coverage. Each undergraduate student registered in the University will be enrolled in the plan offered by TCU and will be billed for that plan. If a student has adequate health insurance through another plan, the student may request a waiver from participation in the plan offered by TCU. If the waiver is granted, the student will be disenrolled from the plan offered by TCU. Students majoring in nursing must have health and accident insurance coverage at any time they are enrolled in a clinical course regardless of the number of semester hours carried.

The plan offered by TCU provides major medical coverage at a reasonable cost. Detailed information about the University offered plan is available at the Health Center.

If adequate coverage is provided by a family/individual plan and the student chooses to request a waiver from the University's-offered plan, a waiver form must be filed by the due date at the beginning of EACH FALL semester. Students entering in the spring semester must file a waiver prior to the start of that semester. The due date is published in the Student Calendar/Handbook, the student newspaper and in direct mailings to students. Once filed the waiver remains in effect for that academic year. Failure to file a waiver by the due date will result in the student being automatically enrolled in and billed for the University-offered student health insurance.

The student health insurance offered by the University is also available on an enrollment basis to undergraduates carrying less than nine hours and to graduate students. Information and enrollment forms can be obtained at the Health Center.

Non-immigrant international students, graduate and undergraduate, are required to have health insurance. These students must make requests for waiver consideration through the International Student Services.

The Counseling Center

The Counseling Center provides psychological and psychiatric evaluation services for students on a short-term basis. Students requiring long-term services will be referred to professionals off campus. The staff includes a full time psychiatric medical director, 2 clinical psychologists, and 2 licensed professional counselors. Services are provided confidentially.

Services provided focus on helping students cope with personal concerns as they engage in their academic, social and personal activities. Typical student needs and concerns include learning to study more effectively, resolving interpersonal conflicts, managing stress, coping with loneliness, and handling feelings of depression, anxiety and other emotional crises.

Psychiatric medication management, individual, and group counseling services are available to assist students. In addition, presentations are made to residence halls, classes, and campus organizations on a wide variety of topics in mental health.

The Assessment Program of the Counseling Center helps students learn more about their aptitudes, achievements, interests, values, and personality. In cooperation with other campus departments, services are also available to students related to learning disabilities. The College-Level Examination Program (CLEP) and national tests for admission to graduate schools are administered by the Counseling Center.

Career Services

Career Exploration and Job Search Advising

Career Services helps students and alumni identify and attain career goals. While students may use the services anytime during their academic experience, the freshman year is an excellent time to begin exploring career options. Individual counseling sessions and inventories evaluate interests, skills, experiences and values and match those to potential occupations. Computer resources and printed material in the career library provide opportunities to explore the identified occupations.

As students approach their job or internship search, the Career Services staff teaches them effective job search strategies and techniques through individual advising sessions, videotaped mock interviews, resume critiques and workshops.

Job Search Assistance

Job Listings. Over 50,000 summer, part-time, internship and full-time professional job vacancies are listed with Career Services each year and are available on a password-protected site on the World Wide Web.

Resume Database. TCU uses on-line technology that allows students to register with Career Services while producing high quality professional resumes. The resumes are included in a searchable database and on password-protected Web Resume Books that can be accessed by employers via the WWW. Thousands of resumes are electronically transmitted to employers who request this service annually.

On-campus Interviews. Each fall and spring semester, employers come to TCU to interview graduating seniors in all majors for full-time positions after graduation and sophomores and juniors for internship positions. Students must be registered with Career Services in order to participate in these interviews that are scheduled using the WWW.

On-Campus Student Employment

TCU employs thousands of students in almost every department on campus. Career Services assists students in locating on-campus jobs that match their class schedules and skills. All on-campus jobs are listed on the web page, and students who are seeking a position on campus should come to Career Services to learn about openings and to process required paperwork.

Transitional Programs

Making the transition from TCU to the world of work or graduate school is challenging to students. Career Services presents programming for juniors and seniors to help them prepare for this transition. *Junior Jumpstart*, a one-day retreat held each spring offers advice to juniors to help them prepare for the job search or graduate school applications during their senior year. Topics include resume preparation, the job or graduate school interview, the graduate school application process, job search strategies and the etiquette of a business lunch. Seniors are offered the opportunity to spend a weekend at an area hotel during *Senior Conference* in January. Workshops and general sessions focus on succeeding in life after TCU with sessions on surviving the first year on the job or in graduate school, budgeting an entry-level salary, wardrobe planning, teamwork in the workplace, peer advice from recent graduates and training in the etiquette of a formal dining experience.

For more information or to use Career Services at TCU, come to the Student Center Annex, call 817 257-7860 or visit the Career Services pages on the TCU web site.

Automobile Regulations

All students, faculty and staff who operate a motor vehicle on University property must register that vehicle with TCU Police Department. The annual Registration fees are specified in the University Parking and Regulations brochure. All fees are payable in the Controller's Office.

Any student who complies with parking and traffic regulations may operate a motor vehicle on campus. The University does not assume any liability concerning the protection of the motor vehicle or any responsibility for providing special parking places near a student's residence hall.

Illegally parked vehicles may be ticketed, immobilized, or towed by the TCU Campus Police Department. Fines are payable at the Controller's Office. Continued parking offenses may lead to a suspension of campus driving and parking privileges and may also result in disciplinary action by the University. Whenever it is necessary to move an illegally parked vehicle, it will be towed by an independent wrecker operator to the wrecker's storage area. The owner of the vehicle will be responsible for the wrecker fee and storage plus the fine for the traffic violation.

Campus Police

TCU Police Officers are commissioned by authority of the Board of Trustees of Texas Christian University and are certified as peace officers by the State of Texas to provide protection for personnel and property on campus. The Campus Police are in service 24 hours a day, seven days a week, and the Campus Police dispatcher can be contacted at any time by telephone, Area Code (817) 257-7777. The office is located at 3025 Lubbock.

TCU Police Programs

Student Escort Program (Froggie Five-O)

The TCU Police Department administers a student escort program, Froggie Five-O, which operates between the hours of 7:30 p.m. and 12:30 a.m. throughout the school year. Froggie Five-O escorts drive golf carts to all areas of the campus and can offer student transportation between academic buildings and residence halls. Students may request an escort by using any of the 25 emergency telephones located on campus or by calling the University Police at (817) 257-7777. Uniformed security guards are offered 24 hours a day.

Campus Crime Watch

These programs are of a neighborhood watch nature with the TCU campus being the neighborhood. Meetings for the programs are open to all students, faculty, staff, and friends. The TCUPD Crime prevention specialist hosts the meetings and provides speakers on subjects of interest to campus community members.

Crime Prevention

Crime and other services are offered by TCUPD and the Fort Worth Police Department's Community Service Office and include: Sexual Assault/Acquaintance Rape Prevention, Personal Awareness/Campus Alcohol Police Information, Campus Crime Watch Meetings, Crime Prevention Surveys for Home and Business, "Operation ID: Property Identification System, Auto Theft Prevention (Window Etching) and, Vehicle "Jump Starts" (Due to possible problems with electric locks, TCUPD is unable to provide vehicle unlocking services).

RAD Systems

RAD stands for Rape Aggression Defense system. The program has been offered on the TCU campus for several years. RAD teaches women defensive concepts and techniques against various types of assault by utilizing easy, effective, and proven self-defense/martial arts tactics. RAD provides effective options by teaching women to take an active role in their own self-defense and psychological well being. The RAD program was developed for and is offered to females.

Lost and Found

The Campus Police is the official lost and found office. Articles lost or found should be reported as soon as possible to help the office in returning property to the rightful owner.

Waiver of Responsibility

The University takes reasonable steps to protect people and property on the campus. However, it is impossible to provide protection that is 100 percent effective and the University does not accept responsibility for bodily injury, theft or damage to personal property occurring on the campus. Students are encouraged to assure that their own insurance coverage is adequate.

Campus Life

The Dean of Campus Life and staff are available to advise students and make referrals to appropriate campus resources. The Dean's office processes official university absences for faculty and verifies serious illness of family emergencies for students. All the Campus Life staff advise activities and organizations, and consult with student leaders, plan workshops, retreats, and other campus-wide and organizational events. The Dean is also the Sexual Harassment Officer of the University and is available to confidentially resolve any harassment situations. The office is located in Sadler 101 and the telephone number is (817) 257-7926.

Student Organizations and Activities

One hundred seventy (170) student organizations are available for student involvement. Academic and honorary groups, special interest groups, student activities programming, student government, political organizations, sports clubs, religious and service groups, and national fraternities and sororities are types of TCU campus organizations. This wide range of organizations is provided to expand new interests, enhance the academic experience, develop leadership skills, and meet new friends. All student involvement programs challenge individuals to practice new skills. It is important to learn to set policy, make decisions, lead, and follow others. In essence, student organizations are about leadership that TCU believes can be taught in classes and refined by experience.

International Student Services

Approximately 350 international students from 70 countries attend TCU. The International Student Association includes U.S. students who are interested in social and cultural programs to broaden understanding of global views while making friends with students from around the world. The international student staff advises international student programming and provides support for individual international students. A special international student orientation is provided both fall and spring semesters in addition to regular TCU orientation. The International Friendship Program involving Fort Worth community participants is coordinated through the International Student Services Office. The office is located in Student Center 111. The telephone number is (817) 257-7292.

Fraternity and Sorority Affairs

Eleven national sororities and eleven national fraternities are recognized on the campus. The Panhellenic and Interfraternity Council (IFC) are the governing councils for sororities and fraternities. Membership in fraternities and sororities is a mutually selective process and a Rush Book is published each June and mailed to all new TCU students. Additional rush and intake information is available in the director's office. This office is located in the Student Center, room 111. The telephone number is (817) 257-7281.

Brown-Lupton Student Center

The Brown-Lupton Student Center is the hub of student activities on campus. The food services areas (main cafeteria, Pizza Hut Express and snack bar), ballroom and meeting rooms, and several university student affairs offices are located here. A reading room, programming and lounge space are also available for student use. Many entertainment and educational program events and conferences are held in the Student Center throughout the year. As a service to the TCU community, a variety of ticket discounts to Fort Worth/Dallas area attractions and theaters are available at the Information Desk from 8 a.m. to 5 p.m. The office telephone number is (817) 257-7927.

Judicial Affairs

Students who enroll in TCU are obliged to conduct themselves in a manner that is compatible with the University's

function as an educational institution. Each student is expected to be fully acquainted with all published policies, rules, and regulations of the University and will be held responsible for compliance with them. Students are also expected to comply with all federal, state, and local laws. This principle extends to conduct off campus that is likely to have an adverse effect on the University or on the educational process of any student. Students may be held accountable by TCU and by police agencies for the same instance of misconduct.

Reported violations of the Code of Student Conduct are investigated and resolved by staff members in the Division of Student Affairs under the general supervision and direction of the Office of Campus Life. Violations of the Code are subject to a wide range of disciplinary action.

Specific examples of misconduct for which students may be subject to disciplinary action include, but are not limited to, the following:

1. Infliction of bodily or emotional harm.
2. Hazing.
3. Destruction of property.
4. Use, storage, or possession of weapons or dangerous devices.
5. Tampering with safety equipment and arson.
6. Dishonest conduct.
7. Theft/unauthorized use of property.
8. Unauthorized or abusive use of computer equipment, programs, or data.
9. Failure to comply with University authority.
10. The use, production, distribution, sale or possession of drugs in a manner contrary to university policy or prohibited under Texas law. (See *Drug Abuse Policy* for complete details.)
11. The use, production, distribution, sale or possession of alcohol in a manner contrary to university policy or prohibited under Texas law. (See *Alcohol Policy* for details.)
12. Unauthorized entrance to or presence in or on University premises.
13. Disorderly conduct that interferes with or obstructs University-authorized activities.
14. Commission of local, state, or federal criminal offenses.
15. Violation of other published or announced university rules or regulations.
16. Activities that jeopardize building security for any or all residents/students.
17. Behaviors that endanger the well being of any or all residents/students.
18. Causing excessive noise, having guests of the opposite sex in a student room during non-visitation hours, keeping or bringing pets or other animals inside a residence hall, and smoking in any residence hall other than a student room are prohibited.
19. Acts that harm or otherwise negatively affect the appearance of residence hall building exteriors, interiors, or furnishings by failing to exercise reasonable care or in specific acts of vandalism are prohibited.
20. Any act that violates the academic integrity of the institution is considered academic misconduct. (See Academic Conduct Policy)

A complete Code of Student Conduct, including judicial process is available in the Student Handbook and the office of the Dean of Campus Life.

The Bill of Student Rights and the Code of Student Conduct are printed in the Student Handbook. These documents guide the student discipline and grievance processes.

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Student Policies

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[University Judicial System](#)

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Bill of Student Rights and Responsibilities

(Officially approved Spring 1977)

The purpose of this document is to enumerate the essential provisions of the student's rights and freedoms, together with the corresponding responsibilities which the student assumes while enrolled at Texas Christian University. It is understood by all persons concerned that the rights and responsibilities enumerated herein are to be exercised within the framework of the philosophies and objectives of TCU. If need for clarification arises, the University Judicial System shall be used to interpret the philosophies and objectives of the University.

Section I. Freedom of Access to Higher Education

- A. The University shall be open to all applicants regardless of race, religion, sex, age or national origin who are qualified according to its admission requirements.
- B. The appropriate facilities and services of the University shall be available to its enrolled students.
- C. Each student has the responsibility to meet all of his/her financial obligations to the University.
- D. Each student has the responsibility to observe the regulations of the University.

Section II. Classroom Expression

- A. Any student who is in good standing with the University has the right to register for and attend any class (course) for which he has met the prerequisites as stated in the official University catalog and which is open to further enrollment.
- B. Freedom of discussion and expression of views relevant to a course shall be protected.
- C. Students are responsible for meeting the stated requirements of any class for which they are enrolled.
- D. Students have the right to academic evaluations which are neither prejudiced nor capricious and which are based on stated class requirements.

Section III. Student Records

- A. The confidential status of student records including information about student views, beliefs and political association shall be protected. The term "confidential" means the ethical, moral, and legal responsibility not to divulge information of a personal nature that has been obtained in the course of a professional relationship except:
 - 1. When necessary to prevent an individual's serious injury to himself and/or to another person;
 - 2. For use by members of the faculty and administration when necessary to carry on the internal operations of the University;
 - 3. When a parent or guardian has legal access to such records;
 - 4. When ordered by a court of competent jurisdiction to release such information.
- B. No entry may be made on a student's official transcript without notification to the student.
- C. Access to the University record is guaranteed to each student, subject only to applicable state and federal laws and reasonable University regulations as to time, place, and supervision.
- D. Entries relating to student's race and religion may be solicited but shall not become part of the student's official transcript.
- E. Within a maximum of five years from the date of an individual's termination from the University, a routine destruction of his/her disciplinary records shall be accomplished.
- F. The student has the responsibility to give full, accurate and complete information for all official records required by the University.

University Judicial System

Preamble

This Judicial system is intended to provide an orderly system for adjudication of disputes arising under the Bill of Rights and for the just resolution of grievances based on actions of University employees or groups recognized by the University. A grievance is defined as any dispute or difference concerning the interpretation or enforcement of any provision of University regulations, policy procedures or state or federal law.

I. Boards of Original Jurisdiction

A. The University committees enumerated below shall serve as quasi-judicial boards of original jurisdiction.

1. The Student Organizations Committee shall hear cases involving student organizations officially recognized or approved by the Committee. It shall have the authority to delegate responsibility for judicial hearings to other student groups (such as the Panhellenic Council, the Interfraternity Council, etc.) but no dispute (case) handled by one of these groups can be appealed to the University Court until a ruling has been made by the Student Organizations Committee itself. Cases may be brought by University staff members, officers of student organizations under the jurisdiction of the Committee or by individual students who charge that their rights have been violated by such organizations.

2. The Student Publications Committee shall hear cases involving University sponsored student publications, e.g., *The Daily Skiff* and *Image*. Cases may be brought by University staff members, student editors or editors or writers and individual students who think their rights have been violated by the press. The Committee shall also hear cases involving controversy over such questions as compliance with the Canons of Responsible Journalism and FCC Regulations and the standards of taste in the University community.

3. The Public Presentations Committee shall hear cases regarding controversies in the areas of speakers, films, theatre, dance and art exhibitions to be presented by student organizations. Judgments concerning the appropriateness of a presentation (as defined in the Student Bill of Rights) will be made by this committee. Cases may be brought by University staff members, by student organizations that sponsor public presentations, or by individual students who charge their rights are violated by such presentations.

4. The Academic Appeals Committee shall hear cases brought to it by students who are appealing a specific grade or who have been accused of cheating on examinations, plagiarism, or other academic dishonesty. Controversies in this area may only be brought to the Committee after regular channels of department and college have been used.

5. The Traffic Appeals Committee shall hear cases involving disputes over the enforcement of University traffic regulations. Cases may be brought by students, faculty or administrators.

6. The Student Conduct Committee hears appeals from individual students who have been disciplined by the Office of the Dean of Campus Life. It also may have discipline cases referred directly to it by the Office of the Dean of Campus Life.

7. The Student Grievance Committee shall hear cases brought to it by students when such cases do not fall within the jurisdiction of the other quasi-judicial committees listed above. Individuals are expected to resolve grievances informally whenever possible, before appealing to this committee.

B. All quasi-judicial committees must have both student and faculty members.

II. University Court

A. The Court shall have the authority to hear appeals from the quasi-judicial committees listed herein, only under conditions when: (1) the dispute involves an alleged violation of the Bill of Student Rights; and (2) the board of original jurisdiction made procedural errors. If new evidence has become available since the original hearing, the case shall be referred back to the board of original jurisdiction. The Court itself will, by majority vote, determine which cases it will hear.

B. Under conditions when a case will be heard by the University Court, the Court shall have injunctive power to stay, for a maximum of 10 school days or until a University Court hearing can be held, whichever comes sooner, implementation of policies and decisions of University committees, administrative officers, faculty members and student organizations which may violate the Student Bill of Rights.

C. In cases of dispute over jurisdiction, the Court will determine which quasi-judicial committee will have authority over a particular case.

D. The Court shall be composed of four faculty members appointed by the Faculty Senate, four students appointed by the president of the House of Student Representatives with the approval of the House and three administrators appointed by the Chancellor.

E. Members shall be appointed in April for terms beginning in June and ending in May. Temporary appointments may be made by the respective bodies for summer if regular appointees are not able to serve.

F. The Court shall be free to select its own chairperson.

G. The University Court shall annually review and report to the ratifying bodies upon the quasi-judicial procedures and functions of the University Committees.

H. Records of University Court proceedings shall be kept on file for at least five years as a guide for precedent; however, the confidentiality of participants must be protected by the administrator to whom the records are entrusted.

III. The Chancellor

A. Because the ultimate institutional responsibility has been delegated to the Chancellor by the Board of Trustees, he/she retains the right to reverse any decision of the University Judicial System. The Chancellor may delegate this authority to an appropriate vice chancellor.

IV. Judicial Procedures

A. Each quasi-judicial committee and the University Court shall determine its own hearing procedures, provided these procedures meet accepted "fair play" standards.

B. Each quasi-judicial committee and the University Court must observe rules of procedure which include the following "fair play" rights:

1. The right to be informed in writing of the charges and the possible punishment.
2. The right to have at least three school days in which to prepare a defense to refute the charges.
3. The right to a hearing which should elicit information from both sides. If possible, the accused shall be able to face his accuser(s) and have the right to be advised by legal or other counsel.
4. The right to be furnished a list of names of accusers and witnesses and a statement of facts they testified to, if the accused does not face his accusers. However, because of the close proximity in which students live and interact on campus, it is sometimes necessary to protect the anonymity of a witness or accuser. In such cases the Dean of Campus Life may verify the identity of a witness and accept a written statement from him/her without revealing the name of the witness or accuser to the accused.
5. The right to present oral or written testimony.
6. The right to remain silent about any incident in which he/she is a suspect. No form of harassment shall be used by an institutional representative to coerce admissions of guilt.
7. The right to be advised in writing of the results of the hearing.
8. The right to receive a transcript or tape recording of the proceedings, at the individual's own expense, provided this is requested 24 hours before the hearing.

V. Student Affairs

A. Campus Expression

1. Students shall be free to examine and discuss all questions of interest to them and to express opinions publicly and privately.
2. Students have the right to assemble freely and peaceably.
3. Students shall be free to support or protest causes by orderly means.
4. Students have the right to be interviewed on campus for any position for which they meet the qualifications specified by any prospective employer permitted to recruit on campus by the University.
5. Student organizations officially recognized by the University shall be allowed to invite and hear speakers of their choosing. Speaker presentations shall be conducted in a manner consistent with an academic community and consistent with the philosophy and objectives of Texas Christian University. Student organizations have the right to present "entertainment" productions. (As used in this document, entertainment refers to films, theatre, dance, music and art exhibitions.) All productions shall be conducted in a manner consistent with an academic community and consistent with the philosophy and objectives of Texas Christian University.

B. Campus Organizations

1. Organizations consistent with the philosophies and objectives of TCU shall be recognized by the University Committee on Student Organizations for any lawful purpose upon submission of a constitution and a list of current officers.
2. Membership lists are confidential and solely for the use of the organization except that they may be solicited for internal use by the University Committee on Student Organizations.
3. Campus organizations, including those affiliated with an extramural organization, shall be open to qualified students without respect to race, creed or national origin. Religious qualifications may be required by organizations whose aims are primarily sectarian.
4. Campus organizations shall have use of appropriate University facilities for their group activities, subject to such regulations as are required for scheduling meeting times, places and payment of any required fees.
5. No individual, group or organization may use the University name without the expressed authorization of the

University except to identify University affiliation. University approval or disapproval of any organization's policy may not be stated or implied by that organization.

C. Student Communication Media

1. The student communication media shall be free of censorship. The editor and managers shall be free to develop their own editorial policies and methods of news coverage within the framework of the philosophies and objectives of the University. (The term "censorship" in reference to student communications media means any attempt to threaten or coerce any editor, manager, or staff member of a student-run publication or broadcast station in order to prevent the dissemination of any factual account or the expression of any opinion, or generally, to hinder the free flow of ideas.)

2. The editorial freedom entails a responsibility to observe the Canons of Responsible Journalism and applicable regulations of the Federal Communications Commission, to avoid the publication of libelous and other unlawful statements and to show regard for the standards of taste of the University.

D. Student Governance

1. The role and responsibilities of recognized governing bodies composed primarily of students shall be delineated in the constitutions and by-laws of the respective organizations. Actions of student government within the areas of its jurisdiction shall be reviewed only through orderly and prescribed procedures.

2. In the formulation of University policy, students are entitled to a participatory function.

E. Student Rooms and Property

1. Students have the right to be free from unreasonable search and seizure by University personnel and during the process of search and/or seizure the safety of personal effects will be protected.

2. A student's room shall not be occupied during the term of a housing contract by anyone other than the student without written consent from the student.

3. The student, by moving into a University residence hall, acknowledges his responsibility to abide by the terms of the housing contract.

VI. Disciplinary Sanctions

A. University disciplinary sanctions shall be imposed upon a student only in accordance with the provisions of a written officially adopted and published Code of Student Conduct.

B. When charged with a violation of the Code of Student Conduct, students shall have procedural "Fair Play" rights.

C. Students formally charged with violating University regulations shall be informed of their "fair play" rights in writing.

D. Students shall have the right to appeal any disciplinary sanction within the provisions of the University judicial system.

E. Students are responsible for answering honestly any questions posed to them in disciplinary hearings unless the individual claims the right to remain silent on the basis of possible self-incrimination.

VII. Equal Opportunity

Texas Christian University does not discriminate on the basis of personal status, individual characteristics of group affiliation, including but not limited to classes protected under federal and state law.

VIII. Unremunerated Rights and Responsibilities

The preceding enumeration of rights and responsibilities shall not be construed to be all-inclusive for students in their capacity as members of the student body or as citizens of the community at large.

IX. Judicial System

Any controversies which may arise in connection with rights and responsibilities of students outlined in this document shall be adjudicated according to the University Judicial System.

X. Amendments

Amendment to the Bill of Rights and Responsibilities may be proposed only by the House of Student Representatives, the Faculty Senate or the TCU Chancellor. When proposed, amendments shall be referred to a special committee by a majority vote of the House of Student Representatives or the Faculty Senate, or at the request of the Chancellor. The Committee shall consist of three members appointed by the President of the House of Student Representatives, three members appointed by the Chairman of the Faculty Senate and three members appointed by the Chancellor. When the Committee recommends an amendment to the Bill of Student Rights and Responsibilities, it will require an affirmative vote of a majority of the Texas Christian University students voting in a campus-wide election and a majority of the faculty voting in a faculty election, upon recommendations by a majority of the House of Student Representatives and the Faculty Senate, and by approval of the Chancellor.

XI. Ratification

Ratification of this statement shall be by affirmative vote of a majority of the Texas Christian University students voting in a campus-wide election and a majority of the faculty voting in a faculty election, upon recommendation by a majority of the Student House of Representatives and the Faculty Senate, and by approval of the Chancellor.

Student Grievance Procedure

The University has established both informal and formal procedures which a student may follow when presenting grievances. A grievance is defined as any dispute or difference concerning the interpretation or enforcement of any provision of University regulations, policies or procedures or state or federal laws applicable on the campus. Administrators, faculty and students are encouraged in all instances to resolve grievances informally, and as promptly as possible. However, formal procedures may be followed when needed.

Detailed information about the University Judicial System is given in the Student Handbook, available at the beginning of each fall semester. Individuals who have additional questions about how to gain access to the system may contact the office of the Dean of Campus Life.

Alcohol Use Policy

TCU has the responsibility of maintaining an educational environment conducive to academic achievement and at the same time helping young people grow into mature and responsible adults. Though each individual ultimately must decide whether or not to use alcoholic beverages, the University through its Board of Trustees has determined what practices will be permitted on campus.

Students should be aware that the legal drinking age in the State of Texas is 21 years. Texas Christian University will conform to the state law and also has further specific regulations to govern the use, sale and possession of alcoholic beverages on the property of the University.

Students who choose to drink, either on or off the campus, are expected to handle alcohol responsibly and conform to the laws of this state. Violation of state law, city ordinance or University regulations will be considered grounds for disciplinary action.

Except for certain specified areas in University residence halls approved by the Vice Chancellor for Student Affairs, and for specific events authorized by the Chancellor or Provost in the Dee J. Kelly Alumni and Visitors Center or other buildings, the consumption, sale or use of alcoholic beverages is prohibited on the campus. The consumption of alcohol is permissible for persons of legal drinking age in parking lots immediately adjacent to Amon Carter Stadium from two hours before until two hours after TCU home football games. Alcohol is not permitted in the Stadium at any time.

Residents of legal age (21 years) and over may possess and consume alcoholic beverages in their rooms or in the rooms of other students 21 years of age or older. The consumption of alcoholic beverages is prohibited in hallways, stairways, elevators, lobbies, lounges, recreation areas, restrooms, and all other areas of the residence hall. Students' rooms may not be used as an "open bar" but may be used for private gatherings with no more than six guests.

The purchase or sale of alcoholic beverages is prohibited everywhere on the campus. Furthermore, no person may provide any alcoholic beverages to any person less than 21 years of age. The University also prohibits the use or possession of alcoholic beverages in all instructional settings including those remote to the campus.

Information about specific penalties imposed for violation of alcohol use policies may be obtained from the Dean of Campus Life or the Office of Residential Services.

Drug Abuse Policy

Students enrolled in TCU are subject to disciplinary action for the possession, manufacture, use, sale or distribution (by either sale or gift) of any quantity of any prescription drug or controlled substance or for being under the influence of any prescription drug or controlled substance, except for the use of an over-the-counter medication or for the prescribed use of medication in accordance with the instructions of a licensed physician. Controlled substances include, but are not limited to, marijuana, cocaine, cocaine derivatives, heroin, amphetamines, barbiturates, LSD, PCP, and substances typically known as "designer drugs" such as "ecstasy" or "eve." Possession of paraphernalia associated with the use, possession or manufacture of a prescription drug or controlled substance is also prohibited.

The minimum penalty for a first-time violation of the Drug Abuse Policy for use or possession of a prescription drug or controlled substance will be disciplinary probation for a full year, and a requirement for participation in a drug abuse education and/or treatment program. Any student who violates the Drug Abuse Policy for use or possession of a prescription drug or controlled substance for a second time will be suspended from the University for at least one year. Possession of drug paraphernalia will subject a student to the same penalties as those imposed for use and possession of a prescription drug or controlled substance.

The penalty for a violation of the Drug Abuse Policy for sale, distribution, or manufacture of a prescription drug or controlled substance will be permanent expulsion from the University. A student who voluntarily seeks help for drug or alcohol abuse is not subject to disciplinary action; in fact, University officials will do everything they can to assist the student in obtaining appropriate treatment. If the student continues to use drugs, then he/she does become subject to disciplinary action.

Legal Sanctions for Illegal Use of Alcohol and Other Drugs

In accordance with federal regulations the following information is provided for all students. In addition to sanctions imposed by the University for violation of the Alcohol Use Policy and the Drug Abuse Policy, a student may be subject to regulations of civil authorities. Various local, state and federal regulations prohibit the illegal use, possession and distribution of illicit drugs and alcohol. Penalties for violation of such statutes vary depending on the type of drug, the amount of the drug involved, the type of violation, and in the case of alcohol, the age of the persons involved. Detailed descriptions of legal penalties are available in the Office of Alcohol and Drug Education, the Dean of Campus Life Office, and in the office of Residential Services.

The University reserves the right to refer students to court authorities for any behavior that is in violation of the law regardless of any sanctions imposed by the University.

Health Risks Associated with Substance Abuse

Abuse of alcohol and drugs has been shown to cause serious health problems including:

Alcohol. Frequent or heavy use of alcoholic beverages can result in brain damage; cirrhosis of the liver; cancer of the liver; cancer of the mouth, throat and pancreas; stomach ulcers; heart damage; lowered sex hormone production; and lowered immunity to infections and disease.

Alcohol use by pregnant women can also cause birth defects, lowered birth weight and/or mental retardation in children.

The use of alcohol is involved in half of all traffic related deaths and permanent disabilities. Alcoholism can lead to family dysfunction and violence. Alcoholics are six or more times as likely to commit suicide as non-alcoholics.

Drugs. The use of illegal drugs, including but not limited to marijuana, cocaine, heroin, crack, amphetamines, psychedelics and so called "designer drugs" has been shown to result in physical and mental disorders.

Lung damage (including lung cancer), lowered immunity to disease, memory loss, depression, flashbacks, lowered production of sex hormones, birth defects, low birth weight infants and severe psychological disorders may result from the use of drugs. These drugs are highly addictive, both physically and psychologically. The body builds a tolerance to such drugs so that larger and more frequent doses are required to satisfy the need for the drug.

Academic Conduct Policy

An academic community requires the highest standards of honor and integrity in all of its participants if it is to fulfill its missions. In such a community faculty, students, and staff are expected to maintain high standards of academic conduct. The purpose of this policy is to make all aware of these expectations. Additionally, the policy outlines some, but not all, of the situations which can arise that violate these standards. Further, the policy sets forth a set of procedures, characterized by a "sense of fair play," which will be used when these standards are violated. In this spirit, definitions of academic misconduct are listed below. These are not meant to be exhaustive.

Academic misconduct.

Any act that violates the spirit of the academic conduct policy is considered academic misconduct. Specific examples include, but are not limited to:

A. Cheating. Includes, but is not limited to:

1. Copying from another student's test paper, laboratory report, other report, or computer files and listings.
2. Using in any academic exercise or academic setting, material and/or devices not authorized by the person in charge of the test.
3. Collaborating with or seeking aid from another student during an academic exercise without the permission of the person in charge of the exercise.
4. Knowingly using, buying, selling, stealing, transporting, or soliciting in its entirety or in part, the contents of a test or other assignment unauthorized for release.
5. Substituting for another student, or permitting another student to substitute for oneself, in a manner that leads to misrepresentation of either or both students work.

B. Plagiarism. The appropriation, theft, purchase, or obtaining by any means another's work, and the unacknowledged submission or incorporation of that work as one's own offered for credit. Appropriation includes the quoting or paraphrasing of another's work without giving credit therefore.

C. Collusion. The unauthorized collaboration with another in preparing work offered for credit.

D. Abuse of resource materials. Mutilating, destroying, concealing, or stealing such materials.

E. Computer misuse. Unauthorized or illegal use of computer software or hardware through the TCU Computer Center or through any programs, terminals, or freestanding computers owned, leased, or operated by TCU or any of its academic units for the purpose of affecting the academic standing of a student.

F. Fabrication and falsification. Unauthorized alteration or invention of any information or citation in an academic exercise. Falsification involves altering information for use in any academic exercise. Fabrication involves inventing or counterfeiting information for use in any academic exercise.

G. Multiple submission. The submission by the same individual of substantial portions of the same academic work (including oral reports) for credit more than once in the same or another class without authorization.

H. Complicity in academic misconduct. Helping another to commit an act of academic misconduct.

I. Bearing false witness. Knowingly and falsely accusing another student of academic misconduct.

Sanctions. Sanctions will be imposed for acts of academic misconduct. Students may obtain a complete copy of the Academic Conduct Policy in the offices of all the academic deans, the Dean of Campus Life, the Vice Chancellor of Academic Affairs, and the Vice Chancellor of Student Affairs.

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Mission, Vision and Values

MISSION

TCU educates individuals to think and act as ethical leaders and responsible citizens in the global community.

VISION

Our vision is to be a prominent private university recognized for our global perspective, our diverse and supportive learning community, our commitment to research and creative discovery, and our emphasis on leadership development.

VALUES

TCU values academic achievement, personal freedom and integrity, the dignity and respect of the individual, and a heritage of inclusiveness, tolerance and service.

Our Heritage, Philosophy and Goals

Texas Christian University, founded in 1873, has grown from a small school on the cattle frontier to a major center of independent higher education in a dynamic city. As agents of change in our time as our predecessors were in theirs, we—faculty, staff, students, and trustees—are united in striving for the constant improvement of the University.

A community dedicated to learning, the University affirms its commitment to rationality, objectivity, diversity, freedom of inquiry, creativity, and civility. TCU is committed as well to the preservation, appraisal, and transmission of knowledge and wisdom and to the discovery of new ideas and knowledge by which the understanding of truth may be extended or corrected.

An independent and self-governing institution, TCU attests that a representative democracy provides the context within which free inquiry may best be protected and encouraged; and the University acknowledges that independent higher education can thrive only in an economic system which prompts and rewards individual initiative. TCU has an historical and intentional connection with a religious body, the Christian Church (Disciples of Christ), that embraces pluralism, rejects sectarian narrowness, encourages a reasoned faith, and affirms the rights of informed individual conscience in religious preference. The University welcomes students, faculty and staff of all religious faiths and takes pride in the diversity of its academic community.

Much of the knowledge students seek is related to their specific career goals. The University, however, regards as essential the advancement and communication of general knowledge which enables students to understand the past, to comprehend the natural and social order, to search for the good and the beautiful, and to integrate knowledge into significant wholes.

Education fosters the capacity for rational decision-making, creative thinking and expression, and responsible living. Though knowledge may be treated as ethically neutral, we believe that questions of value are vital and that the exploration of the moral and religious dimensions of human existence is basic to the love of wisdom. At the center of the educational endeavor are people. Affirming the incalculable worth of each individual, TCU seeks to be a caring community, encouraging close working relationships among all members of the University and challenging students, faculty and staff alike to high achievement. In such a setting, the enhancement of mental, physical and spiritual gifts contributes to the integration of the self and to the enrichment of the community and humankind.

TCU provides undergraduate and graduate instruction in a vital and inviting residential setting for learning and living.

We intend to maintain and establish only undergraduate and graduate programs that are aimed toward excellence, the well-being of students and the wholeness of the University. We believe there must be a general compatibility among the values and daily practices of the University and its several units.

Among our many goals are the following:

- To conduct curricular and co-curricular activities designed to fulfill the mission and vision of the University.
- To foster undergraduate and graduate studies of excellent quality.
- To provide faculty and staff of high qualification and dedication.
- To expect and encourage excellent teaching and fruitful creativity and research.
- To preserve and contribute to knowledge by aiding in its organization, storage, retrieval, and dispersal; and to use appropriate technology to this end.
- To employ admission, advising, and retention policies that will enable qualified and dedicated students to enter and to pursue successfully their collegiate work.
- To provide a variety of support services that will enhance the educational experience of all students.
- To promote the development of mature individuals who respect others, who cherish a free and just society, and who are prepared to act as responsible citizens, literate, broadly informed, self-educating, appreciative of arts and of the fruitful uses of leisure, and capable of both entering and changing careers.
- To support co-curricular as well as curricular opportunities for an informed understanding of religious tradition.
- To contribute to the quality of life, work and leisure of citizens in the surrounding metropolitan area through regular instructional programs, continuing education, cultural and intellectual events, research, and through

- participation of faculty and staff in civic, religious, and other affairs;
- To earn the growing support from those who share the conviction that strong, independent institutions of higher learning are necessary to the continuation of a free society.

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Material Resources

[Chairs and Professorships](#)
[Named Lectureships](#)
[Research and Departmental Funds](#)
[Endowed Scholarships](#)

Through the generous gifts and bequests of friends over the years, the University has accumulated endowment funds with a market value nearing 1 billion dollars.

A significant portion of this is the result of a magnificent gift by Mrs. Mary Coutts Burnett in 1923. The Burnett Fund makes up a major portion of the University's endowment.

Another large portion of the University endowment was made available through the bequest of the late Milton E. Daniel of Breckenridge, who was chairman of the Board of Trustees at the time of his death in 1958. His entire estate was left in trust to the University.

Bequests by B.M. and Frances Britain of Amarillo, brought more than \$15 million to the University's endowment in 1991-92.

Fully endowed chairs, several professorships, lectureships and many endowed scholarships have been contributed by individuals, charitable foundations, and churches.

Chairs and Professorships

A named academic position may be created by an endowed amount consistent with recently adopted guidelines.

The Abell-Hanger Professorship of Gerontological Nursing was endowed for the Harris College of Nursing as the result of a challenge grant offered by Mrs. George T. Abell '26 and the Abell-Hanger Foundation. The holder of the professorship will be named.

The William L. and Betty F. Adams Chair of Education was established in the School of Education by an endowment from Mr. and Mrs. William L. Adams. The chairholder is William F. Tate.

The Charles F. and Alann P. Bedford Professorship of International Business was established through a bequest gift from Dr. Alann P. Bedford, who was awarded the honorary Doctor of Laws degree in 1973. She was a TCU Trustee 1975-1988. This position aids the Neeley School in emphasizing the increasingly global nature of business. The holder of the professorship is William C. Moncrief III.

The John Biggs Professorship in Ranch Management was established from a gift from the E. Paul and Helen Buck Waggoner Foundation in 1992. The holder of the professorship is James E. Link.

The A.A. Bradford Chair of Religion was established by Mrs. L.K. Helen Bradford, in memory of her husband, A.A. "Jack" Bradford, an alumnus and trustee of TCU. The holder of the chair is David M. Gunn.

The I. Wylie and Elizabeth M. Briscoe Professorship of New Testament was established in Brite Divinity School in honor of the Briscoes. The holder of the professorship is M. Eugene Boring.

The Harold Glen Brown Lecturer in Pastoral Ministry was established in Brite Divinity School by Mr. and Mrs. Robert M. Leibrock of Midland, Texas. This position is held by Bryan G. Feille.

The Herman Brown Chair of Political Science was created through an endowment grant by The Brown Foundation, Inc. of Houston to recognize distinguished achievement in the field of political science. The chair is held by Donald W. Jackson.

The Burnett Ranches Endowed Professorship in Ranch Management was established in 1990 by the Anne Burnett and Charles Tandy Foundation. The holder of the professorship is Kerry L. Cornelius.

Cecil H. and Ida Green Distinguished Emeritus Tutor was funded by an endowment from Drs. Cecil H. and Ida Green. This position provides an opportunity to name an emeritus tutor from among the ranks of TCU's emeritus faculty on a year-to-year basis. The position is held by Gary L. Tate of the English Department and William H. Watson of the Chemistry Department.

Cecil H. and Ida Green Honors Chair, established by Drs. Cecil H. and Ida Green of Dallas, enables the University to bring to its campus many nationally known visiting scholars, scientists, writers and other career persons on a rotating appointment program.

The Harold D. and Imogene Herndon Professorship of Geology was contributed by Dr. and Mrs. Herndon in 1978. The holder of the professorship is Richard E. Hanson.

The Harold D. and Imogene Herndon Professorship of Music. Established in 1978 by a gift from Dr. and Mrs. Herndon, the professorship is held by John Owings.

The Lyndon B. Johnson Chair of United States History was created through an endowment grant by The

Brown Foundation, Inc. of Houston to honor the late president of the United States and to recognize distinguished achievement in the field of U.S. history. The position is presently held by Mark T. Gilderhus.

The Kay and Velma Kimbell Chair of Art History was established through an endowment grant by the Kimbell Art Foundation in 1994. The chair is held by Mark E. Thistlethwaite.

The Addie Levy Professorship of Literature was created through a bequest of Mr. Dan A. Levy. The annual income from the trust fund is used to provide this professorship of world literature. The holder of the professorship is Linda K. Hughes.

The Robert and Maria Lowdon Chair of Business Administration was established by an endowment from Robert and Maria Lowdon to bring to the M. J. Neeley School of Business a nationally prominent scholar in the field of business. The chair is held by Christopher B. Barry.

Alberta H. and Harold L. Lunger Professorship of Spiritual Resources and Disciplines honors two lifelong ministers and teachers. Alberta Lunger was the first woman to be awarded an honorary Doctor of Divinity degree by TCU. Harold Lunger was Professor of Christian Ethics in Brite Divinity School 1956-1977. The holder of the professorship is Susan J. White.

The Charles B. Moncrief Chair of Geology was established by Mr. and Mrs. W.A. Moncrief, Jr., in honor of their son, Charlie Moncrief '72, in 1984. The chair is held by R. Nowell Donovan.

The W.A. "Tex" Moncrief, Jr., Founding Chair of Engineering was established in 1991 by Mr. and Mrs. Moncrief. The holder of this position is Edward S. Kolesar, Jr.

The W.A. "Tex" Moncrief, Jr. Chair of Physics was also established by Mr. and Mrs. Moncrief in late 1984. The chair is held by C.A. Quarles.

The M.J. Neeley Professorship of Marketing was established in 1981 to advance and strengthen the marketing program in the Neeley School of Business. The professorship is held by Charles W. Lamb, Jr.

The M.J. Neeley Research Professorship of Management, established by M. J. Neeley in 1981, further broadens the management orientation in the business school. The professorship is held by Stuart A. Youngblood.

The Neville G. Penrose Chair of Latin American Studies was established in 1985 by an anonymous gift to honor Dr. Penrose's interest in Latin American/United States relations. The holder of the chair is Ralph Lee Woodward, Jr.

The John William and Helen Stubbs Potter Professorship of Mathematics was established by a gift from Deedie Potter Rose and Rusty Rose in honor of Mrs. Rose's parents. The holder of the professorship is Robert S. Doran.

The Lillian Radford Chair of Rhetoric and Composition was established by a gift from the Rupert Radford Estate Trust and a grant from the National Endowment for the Humanities. The holder of this position is Richard L. Enos.

The W.F. "Tex" and Pauline Curry Rankin Professorship of Nursing was established at Harris College of Nursing by W.F. "Tex" and Pauline Curry Rankin. The holder of the professorship is Rhonda Keen-Payne.

The Rosalyn and Manny Rosenthal Chair of Judaic Studies was created by a gift from E.M. "Manny" Rosenthal and his wife Roz in 1997. When funding is complete in 2001, the endowment will support a chairholder who will serve as a faculty member in Brite Divinity School and direct teaching and research in Jewish Studies for Brite and TCU.

The Saul B. Sells Chair of Psychology was established by a bequest of the late Dr. Sells, who founded TCU's original Institute of Behavioral Research in 1962. The position is held by D. Dwayne Simpson.

The Lorraine Sherley Professorship of Literature was created through a bequest by Dr. Lorraine Sherley, a former professor in TCU's English Department. The professorship was established in 1984 and is held by Sharon Harris.

The Southwestern Exposition and Livestock Show Professorship in Ranch Management was established in 1998 by the Southwestern Exposition and Livestock Show. The holder of the professorship is Gary L. Wilson.

The Granville and Erlene Walker Professorship in Homiletics was established in 1991 in honor of the ministries of Granville and Erlene Walker. The professorship is held by Joseph R. Jeter, Jr.

The John F. Weatherly Professorship of New Testament was established in 1959 through an endowment gift by the A.D. Weatherly family. The position is currently held by Ronald B. Flowers.

The Robert A. Welch Chair of Chemistry was established by The Robert A. Welch Foundation of Houston to recognize distinguished achievement in the field of chemistry. The chair is held by C. David Gutsche.

The Eunice and James L. West Chair of American Enterprise was initiated by their 1980 gift. The chair provides the holder with the opportunity to communicate-through teaching, public outreach and research-an accurate and objective understanding of the purposes, functions and operations of American business organizations. The chair is held by David W. Cravens.

The C.R. Williams Professorship of Financial Services was established by the family of C.R. Williams to bring an outstanding scholar in the financial services area to the M.J. Neeley School of Business. The post is held by Larry J.

Lockwood.

Named Lectureships

The following named lectureships, either annually funded or endowed, have been established:

The Earl E. Dyess Lectureship in Marketing was established by Jack Blanton, Jr., in honor of his father-in-law.

The Frost Foundation Lectureship for Global Issues was established by the Denver-based Frost Foundation. This endowed lectureship provides for a series of speakers of international stature who can discuss, from personal or professional experience, topics related to preparing students and faculty members to live and work in a global society.

The JoAnn Houston Outstanding Contemporary Lecture Series honors JoAnn Houston, a School of Education staff member and longtime educator who died in 1995. Memorial gifts from family and friends and additional funding by the University established this endowed lecture series. The School of Education coordinates bringing to campus outstanding educational thinkers on contemporary concerns.

The McFadin Lectures are supported annually from the McFadin Fund.

The Joseph Morgan Physics Lectureship is funded by the generosity of alumni and friends of the Physics Department at TCU. It was created in memory of Dr. Joseph Morgan, an honored teacher and noted author who drew regional and national attention to the University.

The W.F. "Tex" and Pauline Curry Rankin Lectureship in Nursing was established in 1998. This endowed lectureship brings to campus national leaders in interdisciplinary areas related to health and nursing.

The Ann L. Rhodes Fund for Theatre Guest Artists was established in 1997 by Ann L. Rhodes to bring to the campus nationally and internationally known theatre artists who are expected to enhance the theatre program by sharing their knowledge and experiences with students.

The Ruth Evelyn Sanders Memorial Lectureship was established in 1994 through a bequest gift by Dr. Ruth Evelyn Sanders, TCU '39 and longtime educator. A chemistry major at TCU, Dr. Sanders directed that her gift establish a lectureship in that discipline.

The Oreon E. Scott Lectures, funded by the Oreon E. Scott Foundation, provide for an outstanding lecturer on "Crucial Current, National, and International Issues from the Christian Point of View."

The Nancy Quarles Stuck Art History Lecture Fund is provided by Mrs. Hosmer B. Stuck of Fort Worth. One of TCU's first recipients of a bachelor's degree in art history, Nancy Stuck directed her gift to that discipline. When funding is complete, this fund will help expand the scope of the Art History Program.

The Wells Sermons are financed by the East Dallas Christian Church honoring its former minister, Dr. L.N.D. Wells.

Research and Departmental Funds

The Carl T. and May Anna Anderson Fund for Geology was established by Mr. and Mrs. Anderson '41 '41 to provide budget support for the Department of Geology. This endowed fund is used to provide scholarship assistance, instructional equipment purchases, reference materials, field trips, and for support of the instructional budget.

The Robert and Jerita Buschman Fund for Theatre was established by Mr. and Mrs. Robert Buschman to provide budget support for the Theatre Department and especially for theatre production activities.

The Hosmer B. Stuck Fund for Business Research was established in memory of Mr. Stuck '41 by his widow to finance research projects of faculty members in the M.J. Neeley School of Business.

Endowed Scholarships

Only the annual interest is used on endowed scholarships; the principal of the fund is held in permanent trust. The scholarships are administered by the Scholarship and Financial Aid Office unless stated otherwise.

Abell-Hanger Foundation Scholarship

Abilene Ex-Students Chapter Scholarship

Tom and Bea Alexander Scholarship

Samuel Alvarez Memorial Scholarship

Harvey Anderson Scholarship in Music

L. D. Anderson Memorial Ministerial Scholarship

M. D. Anderson Foundation Nursing Scholarship

M. D. Anderson Foundation Scholarship for Pre-Medical Students

Bonnie Lee Arnett Memorial Scholarship
Jim A. Atchison Church Vocation Scholarship
Russell Alan Aycock Memorial Scholarship
Dr. and Mrs. Noel Bailey Special Education Scholarship
Brooke Dewey Baird Memorial Scholarship
Jesse Clyde and Thomas Wiley Ball Ministerial Scholarship
Mr. and Mrs. W. E. Bancroft Disciples Scholarship
Josephine Harrold Barnes Trust
Louis H. and Madlyn B. Barnett Fellowship
Edwin J. Barts Insurance Scholarship
Alan and Genelle Basye Scholarship
Hal and Nancy Bearden Scholarship
Theodore and Beulah Beasley Foundation Scholarship
Dorothy Mays Bell Graduate Scholarship for Speech Language Pathology
Edward A. Bell Scholarship
Happy Bell Scholarship
Heather Alter Bellomy Memorial Scholarship
Ethel Evans Bennett Scholarship
Bermont Family Undergraduate Jewish Scholarship
Elaine Salisbury and Stephen Bing Scholarship
Mr. and Mrs. William M. Blanks Memorial Scholarship
R. E. "Bob" Bolen Scholarship
Bonds Ranch Scholarship for Ranch Management
Bruce Lowell Boswell Scholarship
Ed and Margie Boswell Scholarship
Edith and V. W. Boswell Scholarship
Robin Elise Boyer Memorial Scholarship
Leon H. Brachman and Louis H. Barnett Scholarship
Minda and Malcolm Brachman Honors Study Abroad Scholarship
Mr. and Mrs. Soloman Brachman Scholarship
Nelson Louis Brackin Scholarship
Tom and Bess Braniff Scholarship
Buster Brannon Basketball Scholarship
Miss Jimmie Katherine Bratton Memorial Nursing Scholarship
Weldon Brigance Trust Scholarship
I. Wylie Briscoe Disciples Scholarship
I. Wylie and Elizabeth Briscoe Scholarship
Malcolm Samuel Briscoe Scholarship
Broiles Journalism Scholarship
Bill Brown Memorial Scholarship

Elmer A. Brown Athletic Training Scholarship
Walter E. Bryson Scholarship
Ross Buford Memorial Scholarship
Edmund W. and Elizabeth G. Burke Scholarship
Jim Hillard Camp Scholarship
Curtis K. Canter Memorial Scholarship
Lou Miller Canter Memorial Scholarship
Robert L. and Sallie Carlock Scholarship
Brion T. Carlson Scholarship
Gertrude Fears Castleberry Scholarship
Thornton Cecil Memorial Scholarship
Barney and Edyth A. Lacy Chapman Scholarship
I. B. Chapman, Sr., Scholarship
Shirley Gibson Chapman Scholarship
Floyd "Zeke" and Joan Gardner Chronister Scholarship
Addison Clark-Randolph Clark Ministerial Scholarship
Jerry P. and Martha C. Clark Geology Scholarship
Warren Clark Disciples Scholarship
Class of 1933 Scholarship
Class of 1967 Scholarship
Harriet V. Clay Scholarship
Betsy Clement Scholarship
Jack and June Clements Memorial Scholarship
Joe B. Cobb Memorial Scholarship
Mary Magee Cobb and Julia Magee Hartley Scholarship
Robert Glenn Coffin Music Scholarship
Bryant F. Collins Memorial Scholarship
Landon A. Colquitt Scholarship
Earl E. Combest Scholarship
E. Constantin, Jr. Scholarship
Mr. and Mrs. J. W. Conway Memorial Scholarship
Raymond H. and Stephen R. Copeland Scholarship
Kimberly Kash Ray Corona Scholarship
Corpus Christi Ex-Students Scholarship
Arthur H. Courtade Memorial Scholarship
Russell A. and Leila Park Cox Scholarship
Willie Craft Memorial Scholarship
Donald and Katherine Cram Scholarship
Laura Lee Crane Scholarship

Bill Crawford Athletic Scholarship
J. Malcolm and Kati Mai Crim Scholarship
Ann Cross Memorial Scholarship
C. C. and Mildred Cross Scholarship
DeRue Armstrong Curtis Memorial Scholarship
Curtis Family Scholarship
Melvin O. Dacus Memorial Performance Award in Musical Theatre
Dan Danciger Memorial Scholarship
Davidson Foundation Business Scholarship
C. J. "Red" Davidson Scholarship
John Perryman Davidson II Scholarship
Mr. and Mrs. William S. Davis Scholarship
George and Rachel Deahl Memorial Ministerial Scholarship
Roberta Smith Deason Scholarship
Dickinson Middle Income Scholarship
Scott Dike Memorial Scholarship
Robert Parker Dimmitt Memorial Scholarship
Nancy Savage Doherty Scholarship
Donovan-Knox Journalism Scholarship
James C. Dooley Memorial Scholarship
Sam Y. Dorfman Memorial Scholarship
Jeffrey B. Dudderar Memorial Scholarship
Minnie Cahill Dunn Scholarship
C. H. Dyar Memorial Scholarship
F. W. and Bessie A. Dye Scholarship
Frank B. and Vera Turbeville Edelbrock Scholarship
Ambrose Edens Scholarship
Ellwood Foundation Pre-Medical Scholarship
Mary Mitchell Engle Music Scholarship
Bonne Enlow Scholarship
Dr. and Mrs. M. E. Ensminger Scholarship in Ranch Management
Richard Michael Etnyre Scholarship
Leslie P. Evans Memorial Scholarship
W. A. Eyre and C. Johnson Scholarship
The Faculty/Staff Holiday Card Scholarship
Thomas Kinder Farris Scholarship
Mr. and Mrs. Johnnie P. Fears Scholarship
Fine Arts Guild and Foundation Scholarship
First Christian Church of Post, Texas, Disciples Scholarship
First Christian Church of San Angelo Disciples Scholarship

First Christian Church of Sherman Scholarship
Bess Fish Athletic Scholarship
Bess Fish Scholarship for Humanities
Bess Fish Scholarship for Nursing
Truett W. and Queenelle Flache Scholarship
Charles T. and Mary Lou Holstrom Floyd Scholarship
Fort Worth Star Telegram/George Dolan Memorial Scholarship
Tom and Iva Foster Scholarship
Bayard H. Friedman Scholarship Endowment for Tennis
William M. Fuller Ranch Management Scholarship
Mr. and Mrs. H. B. Fuqua Scholarship
Robert E. and Patty Gartman Scholarship
E. K. Gaylord Memorial Scholarship
David Gentry Memorial Ministerial Scholarship
Albert and Mamie George Scholarship
Thelma Stewart George Memorial Scholarship
Tom D. Gholson Scholarship
Jeanette and Arthur I. Ginsburg Scholarship
Marcus and Martine Ginsburg Scholarship
Charles Goodnight Scholarship
Ida M. Green Fellowship
Mr. and Mrs. W. H. Green Scholarship
Lollie S. Greene Scholarship
Greenville Christian Church Scholarship
Robert S. Grimes and Maud Fite Grimes Scholarship
Phyllis M. and John M. Grimland, Jr. Middle Income Scholarship
Hardy Grissom Memorial Scholarship
A. E. Grugett Memorial Scholarship
Lynn Swann Haag Memorial Scholarship
Hall Family Pre-Med Scholarship
Hallberg Foundation Scholarship
Cora Bivins Halsell Scholarship
Betty Hammack Memorial Scholarship
William J. Hammond Memorial Scholarship
Dick Hanley Memorial Scholarship
Granville Harrison Scholarship
Hoy B. Harrison Scholarship
John B. Hawley Memorial Scholarship
Sue Terrell Hawley Memorial Scholarship

Haywood Scholarship
Richard M. Hazlewood Loyalty Scholarship
William Randolph Hearst Endowed Scholarship
Danny Waggoner Hemlay Academic Achievement Award
Madeleine Hemley Music Scholarship
Luther A. Henderson Scholarship
Hendrick Home for Children Scholarship
Harvey and Elizabeth Herd Scholarship
Harold D. and Imogene Herndon Middle Income Scholarship
Willis G. Hewatt Scholarship
Hewatt-Rankin Pre-Med Scholarship
Larry D. Hickey Memorial Scholarship
R. Hunter Hill Scholarship
Charles R. Hoffman Scholarship in Jazz Studies
Ben Hogan Colonial Country Club Endowed Golf Scholarship
Holiday Greeting Fund
Hooks Family Memorial Scholarship
Charles and Mildred Horan Voice Scholarship
Dr. and Mrs. Jeff L. Horn Scholarship
Houston TCU Women's Club Scholarship
Josephine Terrell Hudson and Edward R. Hudson Scholarship
Mr. and Mrs. Charles C. Huff Memorial Ministerial Scholarship
Stephen B. and Lola Lollar Huff Scholarship
Dr. Simeon H. and Virginia Enloe Hulsey Scholarship
Robert D. and Marjorie E. Hunsucker Scholarship
A. R. and Anna Hunt Ministerial Scholarship
Keith Irwin Memorial Ranch Management Scholarship
Dana Louise Ivancevich Memorial Scholarship
Amy Miers Jackson Scholarship
J. I. and Nelda Jackson Scholarship
Jarvis-Love Bible Class Missionary Scholarship
Dan Jenkins Sportswriting Scholarship
Merlin Jenkins Memorial Scholarship
Mona Outlaw Johnson Scholarship
Herbert J. Jones Scholarship
Jesse H. Jones and Mary Gibbs Jones Scholarship
Millard B. Jumper III Memorial Scholarship
Melinda Mann Justice Memorial Scholarship
Joe and Sadie Keevil Disciples Scholarship
Noel L. Keith Memorial Scholarship

Dee J. Kelly Scholarship
Mr. and Mrs. Wilbur M. Kidd Scholarship
William P. and Elva Killingsworth Scholarship
Carl B. and Florence E. King Foundation Scholarship
Ruby Stoker Kirkpatrick Disciples Scholarship
Willard M. Kirkpatrick Memorial Disciples Scholarship
Lili Kraus Piano Scholarship
George W. Lacy, M.D., Memorial Scholarship
Herbert and Mamie LaGrone Teacher Education Student Leadership Scholarship
LaHood Family Scholarship
Landers Machine Company of Fort Worth Scholarship
Jane Langdon Music Scholarship
John W. Large Memorial Scholarship
Florina Adele Lasker Scholarship
W. Dewey Lawrence Scholarship
Lennox Foundation Scholarship
George F. and Mary L. Leone Scholarship
Jno. and Moreene Lillard Scholarship
Bob Lilly Scholarship
Lucy Harris Linn Nursing Scholarship
Chester P. and Faye Reeder Long Memorial Scholarship
G. Malcolm and Ann D. Louden Scholarship
Mary Sybert Clark Lovejoy Scholarship
Leo Mack Scholarship
Homer L. and Juliet Jane Magee Scholarship
Mabel I. Major Memorial Scholarship
Mabel I. Major and Rebecca W. Smith Lee Scholarship
Barbara Gardner Manly Scholarship
E. Claude Manning Scholarship
Kiersten M. Marshall Scholarship
Janford S. Mason Memorial Scholarship
Ada and "Mac" McArron Middle Income Scholarship
T. Smith McCorkle Memorial Scholarship
Ann Marie and Robert Neal McDonald Scholarship
Ella C. McFadden Scholarship
Ethel Verda McFarland Music Scholarship
Will McFarland Athletic Scholarship
Warren McKeever Memorial Scholarship
Moses B. McKnight Memorial Scholarship

Dr. Malcolm D. McLean Scholarship
Bruce McMillan, junior, Memorial Nursing Scholarship
McMillan-Shank Memorial Scholarship
R. M. and Atwood Means Scholarship
Jean and Frank Medanich Scholarship
Jack W. and Maurine Melcher Scholarship
Amos W. Melton Memorial Scholarship
Nancy C. Melton Scholarship
John L. Merrill Ranch Management Scholarship
Mrs. Leslie P. Merritt Memorial Scholarship
L. R. "Dutch" and Maggie Meyer Scholarship
Midland TCU Ex-Students Scholarship
Miller Brewing Company Scholarship
Maude Young Miller Memorial Scholarship
W. C. "Jack" Miller Memorial Scholarship
Robert W. and Frances L. Mitchell Scholarship
Lewis W. Mondy Scholarship
L.A.J. and Betty Monroe Endowed Basketball Scholarship
Ferdinand and Mary Herd Moore Ministerial Scholarship
Robert Maxey Moorman Memorial Scholarship
Robert and Alma Moreton Scholarship
Halford J. Morlan Scholarship
Brooks Morris Violin Scholarship
Charles "Lefty" and Judy A. Morris Scholarship
Irene Rae Morris Scholarship
Morris-Wolf Athletic Scholarship
Morris-Wolf Disciples Scholarship
Myrtie Ashley and John Thomas Morrison Scholarship
Osie B. Leifeste Musick Scholarship
Mr. and Mrs. Jack D. Mussett Disciples Scholarship
Judge John C. Myrick Ministerial Scholarship
Alice and M. J. Neeley Special Education Scholarship
Colonel Ben M. D. Newsom and Geraldine Starr Newsom Scholarship
A. C. Nicholson Scholarship
Nordan Fine Arts Scholarship
North Texas Steel Company Scholarship
Tommy Norwood Memorial Scholarship
Alice Taylor Nowlin Scholarship
Oaklawn Foundation Scholarship
T. Reed Oatman Scholarship

Wayland and Carolyn Oatman Scholarship
J. W. and Minnie O'Bannion Scholarship
David O'Brien Memorial Scholarship
M. C. Overton Scholarship
William Collier and Bernice Hodge Pate Scholarship
Jay W. and Bessie Paxton Nursing Scholarship
Doris Smith Penrose Memorial Scholarship
Perkinson Scholarship
Robert E. Peterson Memorial Scholarship
Petroleum Accountants Society of Fort Worth Scholarship
Charles and Bertie Sanders Pettit Scholarship
Steve Pieringer Memorial Scholarship
Vera Stephenson Pilcher Scholarship
L. A. Pires-York Rite Masonic Scholarship
Meredith Anne Pogson Scholarship
James W. Porter Scholarship
Sandra Scott Porter Scholarship
Rose Ella McCollum Porterfield and Austin L. Porterfield Scholarship
Linda Carol Possenti Memorial Scholarship
Leo Potishman Tennis Scholarship
Clayton L. and Jewel Carr Potter Scholarship
Marguerite Potter Memorial Scholarship
Pauline Polk Potts Memorial Scholarship
Lay and Mattie Powell Scholarship
William Elmo Powell Memorial Scholarship
David Preston Memorial Scholarship
Coma Lee and Margaret Q. Pribble Scholarship
Sue Beall and J. Maurice Price, Sr. Scholarship
Mrs. Opal Weatherly Purvines Scholarship
Don W. Rader, Jr. Memorial Scholarship
Rupert and Lillian Radford Scholarship
Catherine Haizlip Ragsdale Scholarship
Roger A. Ramsey Middle Income Scholarship
Ranch Management Alumni Scholarship
Polly Curry Rankin Nursing Scholarship
Mr. and Mrs. George A. Ratliff Scholarship
Ratliff-Bedford Memorial Scholarship
Mr. and Mrs. George A. Ray Ministerial Scholarship
Mr. and Mrs. D. A. "Pete" Redding Scholarship

Cecil D. Redford Memorial Scholarship
Redman Foundation Graduate Education Scholarship
Dave C. Reed Scholarship
Mabel Clark Reed Business Scholarship
Mabel Clark Reed Disciples Scholarship
Norman M. and Maureen Corder Reed Scholarship
H. Roy and Vaulta Reynolds Scholarship
Thelma Robinson Reynolds Scholarship
John V. Roach Scholarship
Phil Roach Scholarship
Dr. and Mrs. A. W. Roark and Mary Elizabeth Roark Scholarship
Joan Rogers Scholarship
Mr. and Mrs. Oscar S. Rosenberg Scholarship
Arch H. Rowan Memorial Scholarship
Stella S. Rowan Nursing Scholarship
Ryan Foundation Scholarship
Frances Sadler Scholarship
M. E. Sadler Scholarship
Robert Marne Sanford Scholarship
Santa Gertrudis Scholarship
Patricia D. Scearse Scholarship
Clarence and Kerry Scharbauer Scholarship
Kurt Alan Schember Memorial Scholarship
George T. Schmaling Memorial Scholarship
V. C. and Elisabeth Schorlemmer Disciples Scholarship
Jake M. Schrum Scholarship
R. J. Schumacher Accounting Scholarship
Gayle and Mary Beth Scott Scholarship
Scott-Rankin Geology Scholarship
Neil Sealy Memorial Scholarship
Mr. and Mrs. Charles R. Sherer Scholarship
Lorraine Sherley, Frederick Henderson Sherley and Quincy Coffman Sherley Scholarship
Wayne H. and Janet Largent Sherley Scholarship
Shipp Family Scholarship
William Everett and Eloise Norman Shipp Endowment for the Harris College of Nursing
Harry B. and Mabelle Short Scholarship
Sigma Theta Tau, Inc. Scholarship
Robert M. Singleton Memorial Scholarship
Mary Skipper Scholarship
Alice T. Smith Scholarship

Emily Guthrie Smith Scholarship
Lucy Smith Scholarship
Margaret K. Smith Memorial Scholarship
Rebecca W. Smith Scholarship
Wilma Miller Smith and Clarence B. Smith Scholarship
Florence Ware Snively Scholarship
Southwestern Company Scholarship
Southwestern Exposition and Livestock Show Scholarship
Ellis M. Sowell Scholarship
Marvolene Bowe Speed Scholarship
Alma W. O'Gorman Staples Nursing Scholarship
Helen Martha Steen Honorary Scholarship
Mr. and Mrs. Hamlett Stivers Memorial Scholarship
Strake Family Scholarship
E. P. Stuermer Family Scholarship for Disciples Scholarship
Lynell Burgess Suggs Memorial Scholarship
George C. and Sue W. Sumner Scholarship
Hatton Sumners Foundation Partial Tuition Grant
Hatton Sumners Foundation Washington Internship Scholarship
Mr. and Mrs. R. C. Sweeney Memorial Scholarship
Wilma Jean and George T. Tade Scholarship for Communication Sciences and Disorders
Dr. Robert and Kathryn Talbert Memorial Scholarship
Tandy Corporation Educational Scholarship
Charles T. Tandy Scholarship
TCU/Raymond Gafford Memorial Golf Scholarship
Jim and Maida Thokey Disciples Scholarship
Anna Belle P. Thomas International Students Music Fund
Wray and Sally Thompson Golf Scholarship
Carol Thornton Scholarship
Jeanette Tillett Scholarship
Martha Maples Timmerman Music Scholarship
Charles W. Tindall - Tandy Corporation Scholarship
T. E. Tomlinson Memorial Ministerial Scholarship
Wendall and Percine Towery Memorial Scholarship
Jim Trinkle Scholarship
Ethel G. Tucker Memorial Scholarship
Harriet Tubman-Texas American Bank Minority Scholarship
Glen and Elizabeth Turbeville Scholarship
Nancy B. Chambers Underwood Scholarship

USX Scholarship
James L. Utley Memorial Scholarship
Warren and Lulu Veale Memorial Scholarship
Don J. Ver Duin Memorial Scholarship
April M. Vieweg Memorial Scholarship
Mary Poteet Wagley Disciples Scholarship
Edward McShane and Mary Waits Scholarship
W. Earl and Louise Waldrop Scholarship
James A. and Susie V. Walker Scholarship
Jewell and Anna B. Wallace Scholarship
Mr. and Mrs. Clay Waller Ministerial Scholarship
George S. Walls, Sr. Scholarship
F. Howard and Mary D. Walsh Graduate Piano Scholarship
F. Howard Walsh, Jr. Middle Income Scholarship
Mr. and Mrs. F. Howard Walsh Scholarship
John B. Walton Scholarship
Sue and Logan Ware Scholarship
Bea Warren Nursing Scholarship
Paul and Ruth Wassenich Disciples Scholarship
W. R. Watt Memorial Scholarship
A. D. and Mozelle B. Weatherly Scholarship
Mr. and Mrs. James L. West Scholarship
Fred Whitaker Middle Income Scholarship
G. R. White Scholarship for Ranch Management
Wichita Falls Ex-Students Scholarship
Harry L. Wiggins Scholarship
Louise V. Wiggins Scholarship
Garner L. and Lula Leverett Wilde Scholarship
Arthur Willey Fund Scholarship
Dorothy and Arthur Willey Scholarship
Jay D. Williams Scholarship
Gretchen Minyard Williams and Liz Minyard Scholarship
Jim Willmon/Bill Rea Scholarship
Jo Brice Wilmeth, Jr. Scholarship
Michael M. Winesanker Scholarship
William M. and Hortense T. Winton Scholarship
B. B. Wolford Estate Scholarship
H. Fitzhugh Wolford Ministerial Scholarship
Woodland Christian Church Scholarship
Sam and Marie "Sissie" Woodson Memorial Scholarship

Mr. and Mrs. William M. Woods Scholarship

Hazel Tucker Woodward Scholarship

Ruby Lee Foster Wooten Scholarship

L. C. Wright Scholarship

Pete Wright Scholarship

Suzanne Elise Yarbrow Memorial Scholarship

Coy Young Memorial Scholarship

Youngblood-Proffer Scholarship

Samuel P. Ziegler Art Scholarship

Charles T. and Clara Shelton Zlatkovich Scholarship

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Memberships and Accreditations

[Among Other Memberships and Accreditations:](#)
[Program-related Memberships and Accreditations:](#)

Evidence of TCU's educational standards lies in its accreditations and memberships.

Throughout the higher education system, numerous examining bodies-boards, agencies, commissions-attest annually the credibility of a university's education program. These bodies review and assess the worthwhileness of an institution's offerings.

TCU is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award bachelor's, master's and doctoral degrees.

Phi Beta Kappa, the prestigious academic society in the liberal arts, approved TCU for membership in 1970. TCU is also approved for a chapter of Sigma Xi, the Scientific Research Society of North America.

Among Other Memberships and Accreditations:

Alliance for Higher Education
American Association of Collegiate Registrars and Admissions Officers
American Association of Higher Education
American Association of University Professors
American Association of University Women
American College Health Association
American College Personnel Association
American Council on Education
American Council of Learned Societies
Association of American Colleges
Association of College and University Housing Officers - International
Association of College and University Telecommunication Administrators
Association of College Unions International
Association of Continuing Higher Education
Association of Fraternity Advisors
Association of Graduate Liberal Studies Programs
Association of Higher Education Cable Television Administrators
Association of Student Judicial Affairs
Association of Texas Colleges and Universities
Association of Texas Graduate Schools
Board of Higher Education of the Christian Church
College Entrance Examination Board
College Placement Council
Consortium of College and University Media Centers
Council for the Advancement and Support of Education
Council of Church Boards of Education
Council of Graduate Schools of the U.S.
Council on International Educational Exchange

Fulbright Association

Independent Colleges and Universities of Texas Inc.

Institute of Asian Studies

Institute of European Studies

Institute of International Education

International Association for Continuing Education and Training

International Council of Fine Arts Deans

National Association of College Activities

National Association of College Admissions Counseling

National Association of Colleges and Employers

National Association of Foreign Advisors: Association of International Educators

National Association of Foreign Student Affairs

National Association of Independent Colleges and Universities

National Association of Student Financial Aid Administrators

National Association of Student Personnel Administrators

National Council of Educational Opportunity Associations

National Council of University Research Administrators

National Wellness Association

Network of Colleges and Universities Committed to the Elimination of Alcohol and Drug Abuse

Oak Ridge Associated Universities Inc.

Professional and Organization Development Network in Higher Education

Southern University Conference

Southwest Educational Development Laboratory

Texas Space Grant Consortium

Program-related Memberships and Accreditations:

Accreditation Board for Engineering and Technology (Department of Engineering) *

Accrediting Council on Education in Journalism and Mass Communication (Department of Journalism) *

American Assembly of Collegiate Schools of Business (M. J. Neeley School of Business, undergraduate and graduate programs and accounting) *

American Association of Colleges of Nursing (Harris College of Nursing) *

American Association of Colleges for Teacher Education (School of Education)

American Chemical Society (Department of Chemistry) *

American Mathematical Society

American Political Science Association (Department of Political Science)

American Speech-Language-Hearing Association (Department of Communication Sciences and Disorders) *

Association of Colleges and Schools of Education in State Universities and Land Grant Colleges and Affiliated Private Universities (School of Education)

Association of Departments of English (Department of English)

Association of Independent Liberal Arts Colleges for Teacher Education (School of Education)

Board of Nurse Examiners for the State of Texas (Harris School of Nursing) *

Commission on Accreditation for Allied Health Education Programs (Athletic Training Program) *

Commission on Accreditation/Approval for Dietetics Education of The American Dietetic Association (Coordinated Program in Dietetics, Didactic Program in Dietetics)

Commission on Collegiate Nursing Education (Harris School of Nursing) *

Computing Sciences Accreditation Board (Department of Computer Science) *

Council on Social Work Education (Department of Social Work) *

Foundation for Interior Design Education Research (Department of Design, Merchandising, and Textiles) *

Mathematical Association of America

Modern Language Association of America (Department of English)

National Association of Schools of Music (School of Music) *

Southern Association of Independent Schools (Starpoint School)

Texas Education Agency (School of Education) *

* *Accrediting Agency*

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Milestones of TCU History

1873

Founded as AddRan Male and Female College, Thorp Spring, Texas. Addison Clark, president (until 1899).

1889

Property given to the Christian Churches of Texas, name changed to AddRan Christian University; J. J. Jarvis president of the board (until 1895).

1895

Moved to Waco, Texas, December; Col. J. Z. Miller, president of board (until 1899).

1899

T. E. Shirley, president of board (until 1909).

1902

Named changed to Texas Christian University; E. V. Zollars, president (until 1906).

1906

Clinton Lockhart, president (until 1910).

1909

T. E. Tomlinson, president of board (until 1917).

1910

Main building at Waco destroyed by fire, March 22; the University moved to Fort Worth with classes in downtown buildings, September.

1911

Frederick Kershner, president (until 1915); school opened on present campus with Main Building, Jarvis and Goode Halls, September; first endowment received, \$25,000, from L. C. Brite.

1912

Fort Worth Medical College adopted as medical department; charter member of the Association of Texas Colleges.

1913

Original Clark Hall completed.

1914

Brite College of the Bible founded, Brite Hall erected.

1915

School of Law added, E. R. Cockrell, principal.

1916

E. M. Waits, president (until 1941); S. J. McFarland, president of the board (until 1927).

1918

Medical College closed due to rising costs.

1920

Endowment of \$300,000 attained; School of Law closed.

1921

Gymnasium building completed; recognition by and aid from General Education Board; elected to membership in the Association of American Colleges.

1922

Elected to membership in Southern Association of Colleges and Schools, including accreditation; became member of the Southwest Athletic Conference.

1923

Jubilee celebration of fiftieth anniversary; \$500,000 endowment achieved; the Mary Couets Burnett Trust received.

1925

Mary Couets Burnett Library opened.

1926

Graduate School organized, first fieldhouse built.

1927

Van Zandt Jarvis, president of board (until 1940).

1928

University placed on approved list of Association of American Universities.

1930

New stadium erected on West Campus; University placed on approved list of American Association of University Women.

1935

University became charter member of the Southern University Conference.

1936

Evening College made distinct administrative unit.

1938

School of Business organized.

1939

Silver anniversary of Brite College of the Bible celebrated.

1940

R. H. Foster, president of board (until 1941).

1941

M. E. Sadler, president (until 1959, when became chancellor until 1965); L. D. Anderson, president of board (until 1954); Brite College accredited by American Association of Theological Schools.

1942

Foster Dormitory completed.

1943

University reorganized into seven schools and colleges.

1946

Harris College of Nursing added as eighth academic unit.

1947

Tom Brown Dormitory, E. M. Waits Dormitory completed.

1948

Jubilee celebration of seventy-fifth anniversary of University; \$5,000,000 endowment achieved; stadium enlarged to 33,500 capacity.

1949

Ed Landreth Hall and auditorium (Fine Arts) completed.

1950

TCU Summer School in Mexico established at Monterrey Tech.

1952

Winton-Scott Hall of Science completed.

1953

Stadium enlarged to 37,000 capacity; old fieldhouse burned.

1954

Religion Center completed; Milton Daniel, chairman of board (until 1958).

1955

Brown-Lupton Student Center, Pete Wright Dormitory completed; Jarvis Dormitory renovated.

1956

TCU-Amon G. Carter Stadium expanded to 47,000 capacity. Ranch Management Program established.

1957

Dan D. Rogers Hall (School of Business) completed; Milton E. Daniel and Colby D. Hall Dormitories completed.

1958

Lorin A. Boswell, chairman of board (until 1969); estate of Milton E. Daniel left in trust to University; Mary Coutts Burnett Library enlarged; Sherley Dormitory completed, new Clark Dormitory built on site of Goode Hall; Bailey Building (old Brite Hall) renovated for School of Education.

1959

First Ph.D. programs approved; title of chief administrative officer changed from President to Chancellor.

1960

M. E. Sadler Hall (administration and classrooms) completed on site of original Clark Hall; first students enrolled in Ph.D. programs in physics and psychology.

1961

Dave Reed Hall (old Administration Building) rebuilt for classrooms, faculty offices, second cafeteria; sale of adjacent

Worth Hills Golf Course to the University approved by voters of the city.

1962

Daniel-Meyer Coliseum built, seating 7,166; Ph.D. programs in English and mathematics inaugurated; University elected to membership in College Entrance Examination Board and as a sponsor of the Oak Ridge Institute of Nuclear Studies; Computer Center put into operation; Institute of Behavioral Research established.

1963

Worth Hills Golf Course acquired for future expansion; Brown-Lupton Health Center completed; Ph.D. program in chemistry begun.

1964

Five residence halls and cafeteria completed on Worth Hills property.

1965

Ph.D. program in history inaugurated; endowment of over \$27,000,000 reached; Dr. M. E. Sadler retired as Chancellor (July 1); Dr. James M. Moudy elected Chancellor and inaugurated Nov. 19.

1966

Approved faculty leaves with pay; authorized creation of "The TCU Press;" received \$3.4 million matching grant from Sid W. Richardson Foundation toward construction of Science-Research Center.

1967

Named School of Business "M. J. Neeley School of Business;" began participation in TAGER (The Assn. for Graduate Education and Research in North Texas) TV network; approved formation of a Faculty Assembly and Senate; Brown-Lupton Student Center expanded.

1968

Adopted new academic calendar with fall term ending before Christmas; established Pastoral Care and Training Center.

1969

Dr. M. J. Neeley chairman of board (until 1972); approved "New Century" program and goal; Leo Potishman Tennis Center completed; Bellaire North and Princeton House apartments purchased for student housing.

1970

Completed Sid W. Richardson Physical Sciences Building, Annie Richardson Bass Building for Harris College of Nursing and Home Economics and a new living-learning residence hall (named during 1971-72 session for Dr. and Mrs. Solomon Brachman); Phi Beta Kappa Chapter established February 24.

1971

Completed Cyrus K. and Ann C. Rickel Health and Physical Education Building and new women's residence hall (named during 1972-73 session for Mary Lipscomb Wiggins); formed Centennial Commission to plan 100th year observance during 1973; Friends of the Texas Christian University Libraries organized January 28; Tom Brown Hall renovated and refurbished.

1972

Administration reorganized into two major areas: academic and support, each headed by a vice chancellor; Theodore P. Beasley elected chairman of board; Waits and Milton Daniel Halls renovated and refurbished.

1973

Celebrated centennial year; \$35 million achieved during New Century campaign for capital, operating and endowment funds; "Old Gym" remodeled for Division of Ballet, "Little Gym" as annex for Department of Art.

1974

William C. Conner elected chairman of board; Chancellor J. M. Moudy received grant from the Danforth Foundation for leave of absence during spring semester, Vice Chancellor and Provost Howard G. Wible named Acting Chancellor during that time.

1975

Miller Speech and Hearing Clinic building completed.

1976

Mary Potishman Lard Tennis Center completed for public and University use; third floor added to Annie Richardson Bass Building.

1977

Addison and Randolph Clark Society established to recognize donors of \$1,000 or more annually; Texas Growth Companies Endowment Fund established.

1978

Ground broken for J. M. Moudy Building for Visual Arts and Communication (dedicated March 26, 1982); new building for Starpoint School completed.

1979

Graduate program re-organized by school and college, replacing Graduate School; Bayard Friedman elected chairman of board; Martin-Moore Hall named; Dr. James M. Moudy retired as chancellor, succeeded on Sept. 5 by Dr. William E. Tucker (inaugurated April 16, 1980).

1980

Brite Divinity School passes \$7.5 million goal of its first fund-raising campaign; goal of \$10 million to expand library achieved.

1981

Library collection passes one million items; \$5 million endowment for financial aid received from Theodore and Beulah Beasley Foundation.

1982

The 40,000th graduate received a degree at summer commencement; addition almost doubling size of the library occupied (dedicated March 25, 1983).

1983

Endowment reaches and passes \$100 million for first time; appointments made to The 1990s Project: A Commission on TCU and the Future; Chancellor William E. Tucker elected to two-year term as moderator of the Christian Church (Disciples of Christ).

1984

Expansion of building for M. J. Neeley School of Business approved; suggestions received from The 1990s Project; football team gains national attention and plays in Bluebonnet Bowl.

1985

Limitations placed on freshman, transfer enrollments; duties of vice chancellor for administrative services and student affairs divided among two positions as fifth vice chancellor is added.

1986

Construction of new residence hall approved.

1987

Groundbreaking for Tandy Hall expansion of M.J. Neeley School of Business and Moncrief Hall, a new residence hall; School of Fine Arts re-named College of Fine Arts and Communication; new University Curriculum Requirements approved.

1988

Academic Services Center put into full operation; Moncrief Hall dedicated.

1989

Tandy Hall dedicated; endowment passes \$200 million.

1990

John Roach elected chairman of board; 50,000th graduate receives degree; more than \$3 million in gifts assure permanence of Ranch Management Program; priorities for academic initiatives in the 1990s include a program in engineering, stronger focus on Ph.D. programs, strengthened international study opportunities for faculty and students.

1991

Master plan for the physical campus completed and approved; central dining hall renovated for \$2.2 million.

1992

First freshmen admitted to new engineering program; Winthrop Rockefeller Building for Ranch Management completed (dedicated January, 1993); first "global theme semester" held and student exchange with Universidad de las Americas - Puebla approved; \$15 million bequest from estates of B.M. and Frances Britain received.

1993

Board of Trustees approve planning of a comprehensive fund-raising campaign, the first in a quarter century; endowment passes \$400 million.

1994

The Walsh Complex, a \$2.5 million expansion of the athletics weight training and rehabilitation center, is built; when the Southwest Conference acts to disband after 1995, TCU joins the Western Athletic Conference, then wins the SWC football co-championship and plays in Independence Bowl; The Next Frontier Campaign is publicly announced with a \$100 million goal, with \$61 million raised or committed during the "silent phase" of the five-year campaign.

1995

Ground is broken for the \$6 million Dee J. Kelly Alumni and Visitors Center (dedicated at Homecoming 1996); computer/information technology extended to all residence hall rooms; pre-enrollment "Frog Camp" becomes integral to freshman program.

1996

First class of engineering students awarded degrees; faculty expanded by ten primarily to enhance freshman seminar program; ground broken for \$11.5 million F. Howard and Mary D. Walsh Center for the Performing Arts; renewal/reconfiguration of residence halls approved.

1997

The combined TCU/Brite endowment exceeds \$750 million after completion of the five-year Next Frontier Campaign which raised more than \$126 million; Pete Wright Hall razed to make way for the Tom Brown/Pete Wright residential community, completed in 1998; the Department of Engineering receives accreditation; TCU establishes partnership with Columbia University to send students to Biosphere II.

1998

The Mary D. and F. Howard Walsh Center for Performing Arts dedicated; the TCU London Centre, the University's first permanent overseas facility, opens its doors to the first class of students in the fall; Chancellor William E. Tucker retires after 19 years of service, paving the way for the University's ninth chancellor, Michael R. Ferrari; the department of music renamed the School of Music and becomes one of the country's few all-Steinway schools. TCU defeats USC in the Sun Bowl, 28-19.

1999

Tom Brown/Pete Wright Residential Complex, housing upperclassmen in apartment style quarters, opens in January; work begins on the William E. and Jean Jones Tucker Technology Center; Commission on the Future of TCU kicks off in fall; Lowdon track is dedicated; ground is broken for 35,000 square-foot Justin Athletics Center; Frogs beat East Carolina 28-14 in the Mobile Alabama Bowl; Trustees approve an aggressive program to improve classroom technology and hire 21 new faculty.

2000

Schools and colleges reorganized from five to seven--AddRan College of Humanities and Social Sciences, M.J. Neeley School of Business, the College of Communication, the School of Education, the College of Fine Arts, the College of Health and Human Sciences, and the College of Science and Engineering; the James A. Ryffel Entrepreneurship Center establishe; TCU parents Steve and Sarah Smith donate \$10.5 million for an entrepreneurship facility, the largest private gift in University history; Brite's Leibrock Village dedicated; Running back LaDainian Tomlinson becomes the third Frog to run for the Heisman, placing 4th in the nation in the final vote and earning the Doak Walker Award; Frogs end with an 11-1 football season and go to their third consecutive bowl game.

2001

Spring closes the most successful athletics program in school history as the University leaves the WAC and joins Conference USA.