



2023-2024

Academic Graduate Catalog

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Academic Calendar

Fall 2023

Regular Session

Mon., Aug. 21	First Classes Meet
Mon., Sept. 4	Labor Day Holiday
<i>Fall Break:</i>	
Wed., Oct. 4	Fall Break. Classes Recess at 10 p.m.
Mon., Oct. 9	Fall Break Ends. Classes Resume at 8 a.m.
<i>Thanksgiving:</i>	
Fri., Nov. 17	Thanksgiving Holiday. Classes Recess at 10 p.m.
Mon., Nov. 27	Classes Resume from Holiday at 8 a.m.
Wed., Dec. 6	Last Day of Class for This Session
Thurs.-Fri., Dec. 7-8	Study Day
Mon.-Fri., Dec. 11-15	Final Exams Begin-See Final Exam Calendar On www.reg.tcu.edu
Sat., Dec. 16	Commencement Weekend

Intersession 2023

Regular Session

Mon., Dec. 18	First Day of Class
Fri., Jan 12	Last Day of Class

Spring 2024

Regular Session

Mon., Jan 15	Martin Luther King, Jr. Holiday
Tues., Jan 16	First Classes Meet
<i>Spring Refresh:</i>	
Fri., March 8	Classes Recess for Spring Refresh, 10:00 pm
Mon., March 18	Classes Resume after Spring Refresh, 8:00 am
<i>Good Friday Holiday:</i>	
Thur., March 28	Classes Recess for Good Friday Holiday 10:00 pm
Mon., April 1	Classes Resume, 8:00 am
Wed., May 1	Last Day of Class
Thurs.-Fri., May 2-3	Study Days
Mon.-Fri., May 6-10	Final Examinations

Summer 2024

Regular Session

Mon., Jan 15	Martin Luther King, Jr. Holiday
Tues., Jan 16	First Classes Meet
<i>Spring Refresh:</i>	
Fri., March 8	Classes Recess for Spring Refresh, 10:00 pm
Mon., March 18	Classes Resume after Spring Refresh, 8:00 am
<i>Good Friday Holiday:</i>	
Thur., March 28	Classes Recess for Good Friday Holiday 10:00 pm
Mon., April 1	Classes Resume, 8:00 am
Wed., May 1	Last Day of Class
Thurs.-Fri., May 2-3	Study Days
Mon.-Fri., May 6-10	Final Examinations

About TCU

Texas Christian University offers graduate education in numerous fields, ranging from the highly abstract to the applied and professional. Because graduate education should be a broadening experience as well as a deepening of knowledge gained from undergraduate programs, the University offers students many options for their graduate studies. But there is a common thread running through all programs - a commitment to excellence and, to the highest standards of scholarship in the disciplines and professions represented in the University.

TCU affords its graduate students many advantages: an excellent library; many outstanding research facilities and laboratories; broad-based computer services; an excellent atmosphere for learning; and, most importantly, the opportunity to study with an outstanding and dedicated faculty, many of whom are scholars of national and international reputation. In all of its graduate programs, TCU seeks to foster teaching, learning and research of the highest quality.

For applications and online information about graduate programs at TCU, see www.graduate.tcu.edu.

Mission, Vision and Values

Our Mission

The mission of Texas Christian University, a private comprehensive university, is **to educate individuals to think and act as ethical leaders and responsible citizens in the global community** through research and creative activities, scholarship, service, and programs of teaching and learning offered through the doctoral level.

Our Vision

To be a world-class, values-centered university.

Our Core Values

TCU Values:

- Academic and personal achievement.
- Intellectual inquiry and the creation of knowledge.
- Artistic and creative expression.
- A heritage of service in pursuit of the greater good.
- Personal freedom and integrity.
- The dignity of and respect for the individual.
- Active appreciation for the array of human experience and the potential of every human being.

Accreditation and Affiliations

Texas Christian University is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award baccalaureate, masters, and doctoral degrees. Questions about the accreditation of Texas Christian University may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, GA 30033-4097, by calling (404) 679-4500, or by using information available on SACSCOC's website

Other memberships and accreditation directly related to graduate study include:

- Southern University Conference
- Association of American Colleges
- National Association of Schools of Art and Design
- National Association of Schools of Music
- American Chemical Society
- Texas Education Agency
- International Association for Management Education
- American Speech-Language-Hearing Association
- Graduate Management Admissions Council
- The Association of Texas Graduate Schools

- Texas Board of Nurse Examiners
- Council of Graduate Schools
- Conference of Southern Graduate Schools
- Association of Texas Graduate Schools
- Commission on Collegiate Nursing Education
- Association to Advance Collegiate Schools of Business
- Accrediting Council on Education in Journalism and Mass Communication
- Association of Graduate Liberal Studies Program
- Council for Accreditation of Counseling and Related Educational Programs

Oak Ridge Associated Universities

Since 1962, students and faculty of Texas Christian University have benefited from its membership in Oak Ridge Associated Universities (ORAU). ORAU is a consortium of 98 colleges and universities and a contractor for the U.S. Department of Energy (DOE) located in Oak Ridge, Tennessee. ORAU works with its member institutions to help their students and faculty gain access to federal research facilities throughout the country; to keep its members informed about opportunities for fellowship, scholarship, and research appointments; and to organize research alliances among its members.

Through the Oak Ridge Institute for Science and Education (ORISE), the DOE facility that ORAU operates, undergraduates, graduates, post-graduates and faculty enjoy access to a multitude of opportunities for study and research. Students can participate in programs covering a wide variety of disciplines, including business, earth sciences, epidemiology, engineering, physics, geological sciences, pharmacology, ocean sciences, biomedical sciences, nuclear chemistry and mathematics. Appointment and program length range from one month to four years. Many of these programs are especially designed to increase the numbers of under-represented minority students pursuing degrees in science and engineering-related disciplines. A comprehensive listing of these programs and other opportunities, their disciplines, and details on locations and benefits can be found in the *ORISE Catalog of Education and Training Programs*, which is available at www.orau.gov/orise/educ.htm, or by calling either of the contacts below.

ORAU's Office of Partnership Development seeks opportunities for partnerships and alliances among ORAU's members, private industry and major federal facilities. Activities include faculty development programs, such as the Ralph E. Powe Junior Faculty Enhancement Awards, the Visiting Industrial Scholars Program, consortium research funding initiatives, faculty research and support programs, as well as services to chief research officers.

Please visit www.orau.org for more information about ORAU and its programs.

Nondiscriminatory Policy

Statement on TCU's Non-Discrimination Policy

TCU is committed to providing a positive learning, living, and working environment free from unlawful discrimination, harassment, sexual misconduct, and retaliation. In support of this commitment, TCU policies prohibit discrimination and harassment based on age, race, color, religion, sex, sexual orientation, gender, gender identity, gender expression, national origin, ethnic origin, disability, predisposing genetic information, covered veteran status, and any other basis protected by law.

The **Office of Institutional Equity (OIE)** is responsible for responding to all reports of discrimination, harassment, sexual misconduct and retaliation.

Please use the following links to review TCU Policy 1.008 Prohibited Discrimination, Harassment, Sexual Misconduct and Retaliation or to review TCU Policy 1.009 Responding to Reports of Prohibited Discrimination, Harassment, Sexual Misconduct, and Retaliation.

To make a report, you may call OIE at 817-257-8228, email oiie@tcu.edu, visit us at The Harrison, Suite 1800 or click here: [Make a Report](#).

To learn about the Campus Community Response Team (CCRT) and Report a Bias Incident click here: <https://inclusion.tcu.edu/campus-community-response-team/>

Title IX

TCU's Title IX Coordinator works within OIE. Andrea Vircks-McDew serves as TCU's Title IX Coordinator. You may call 817-257-8228 to make a report, email oiie@tcu.edu or a.vircks@tcu.edu, or make a report here. Additional Title IX resources and information are available at <https://www.tcu.edu/institutional-equity/title-ix/index.php>.

Mandatory Reporters

ALL TCU employees, except confidential resources, are considered Mandatory Reporters. Mandatory reporters are required to immediately report to OIE any conduct that raises Discrimination, Harassment, Sexual Misconduct (Title IX or Violence Against Women (VAWA)) or Retaliation. Mandatory reporters cannot promise to refrain from forwarding the information to OIE.

Confidential On-Campus Resources

Campus Advocacy, Resources & Education

www.care.tcu.edu

8147-257-5225

Counseling & Mental Health Center

www.counseling.tcu.edu

817-257-7863

Religious & Spiritual Life

www.faith.tcu.edu

817-257-7830

On Campus Resources

TCU Police

www.police.tcu.edu

817-257-8400 Non-emergency

817-257-7777 Emergency

Graduate Programs

Graduate degrees are administered by the following schools/colleges after graduate programs:

- Neeley School of Business
- Bob Schieffer College of Communication
- College of Education
- College of Fine Arts
- AddRan College of Liberal Arts
- Harris College of Nursing & Health Sciences
- College of Science & Engineering

The policies for graduate study are determined cooperatively by the administration, the Graduate Council, and the vice chancellor for academic affairs. The implementation of these policies is the responsibility of the vice chancellor.

Graduate Certificates

Graduate Certificates

Analytics
 Comparative Race and Ethnic Studies
 Criminal Justice
 Education
 Nursing
 Ralph Lowe Energy Management
 Ralph Lowe Sustainable Energy Management
 Ranch Management
 Supply Chain Management
 Women & Gender Studies

Graduate Degree Programs

Master of Accounting

Master of Arts

Art History
 Biology
 Chemistry
 English
 Environmental Science
 History
 Physics
 Psychology

Master of Arts in Teaching

Mathematics

Master of Business Administration

Master of Education

Clinical Mental Health Counseling
 Curriculum and Instruction
 –*Curriculum Studies*
 –*Language and Literacy*
 –*Math Education*
 –*Science Education*
 Educational Leadership
 Human Services
 School Counseling
 Special Education

Special Education with Educational Diagnostician Certification

Master of Environmental Management

Master of Fine Arts

Studio Art
 – *Painting*
 –*Photography*
 –*Printmaking*
 –*Sculpture*

Master of Liberal Arts

Master of Music

Collaborative Piano
 Conducting
 –*Band*
 –*Choral*
 –*Orchestral*
 Music Composition
 Music Theory
 Musicology
 Performance
 –*Piano*
 –*Strings*
 –*Voice*
 –*Wind/Percussion*

Piano Pedagogy

Vocal Pedagogy

Vocal Performance

Master of Music Education

Music Education (all areas)

Piano Pedagogy

Master of Science

Athletic Training
 Biology
 Business Analytics
 Chemistry
 Communication Studies
 Criminology and Criminal Justice
 Deaf and Hard of Hearing Studies
 Developmental Trauma
 Dietetics
 Environmental Science
 Geology
 Kinesiology
 Mathematics
 Nursing
 Nursing Education
 Physics
 Psychology
 Speech-Language Pathology
 Strategic Communication
 Supply Chain Management

Master of Social Work

Doctor of Education

Educational Leadership

Higher Education Leadership

Doctor of Musical Arts

Composition

–*Cognate in Music History*

–*Cognate in Performance*

Conducting

–*Cognate in Music History or Theory*

–*Cognate in Performance*

Performance

–*Cognate in Composition*

–*Cognate in Music Theory or History*

–*Cognate in Voice Pedagogy*

Piano Performance

–*Cognate in Piano Pedagogy*

Piano Pedagogy

Doctor of Nursing Practice

Adult Gerontology Acute Care Nurse Practitioner

Advanced Practice Registered Nurse

Clinical Nurse Specialist

Family Nurse Practitioner

Nurse Administrator

Nurse Anesthesia

Psychiatric Mental Health Nurse Practitioner

Doctor of Philosophy

Biology

Chemistry

Educational Studies

–*Counseling and Counselor Education*

–*Curriculum Studies*

–*Educational Leadership*

–*Science Education*

English

Health Sciences

History

Mathematics

Physics

–*Astrophysics*

–*Biophysics*

Psychology

Rhetoric and Composition

Degree Requirements

Master's Degree Requirements

In addition to the general academic regulations, the particular requirements of the master's degree are provided below and in the separate listings for departments and programs.

Residence Requirement, Master's

There is no general residency requirement. See specific degree listings for program requirements.

Transfer Credit

Limited graduate credit earned from another accredited college or university will be considered for transfer to a TCU master's program. Written request for transfer credit, with appropriate transcripts, should be made at the time of application for admission. Such credit must be applicable to the student's program as determined by his/her adviser; carry at least a "B" grade (3.0 on a 4.0 scale); and be residence credit, not extension or correspondence. Six semester hours of transfer credit usually is all that will be accepted, but under special circumstances additional hours may be considered, subject to approval by the chair of the major department and the dean of the school/college. Nonetheless, at least one-third of the credit hours required for any graduate or a post-baccalaureate professional degree must be earned at TCU.

Additional Master's Degree

TCU graduate students who either are currently enrolled in a master's degree program or who have already earned a master's degree from TCU or from an approved program outside of TCU may apply for an additional master's degree from TCU.

Approval of an additional master's degree from TCU must satisfy the following conditions as determined by the academic dean governing the additional master's degree.

- All requirements relevant to the additional master's degree must be satisfied.
- No more than nine hours of approved coursework for the prior (or concurrent) master's degree may be applied.
- Petition for applied course credit must be submitted in writing.
- Applied course(s) must carry at least a "B" grade (3.0 on a 4.0 scale) and must be verified by accompanying official transcripts.
- Only non-thesis credits will be considered.
- All credits applicable to the additional master's degree must be earned within five calendar years following matriculation.

Advisory Committee, Master's

*Not applicable to the MBA or MLA program.

An advisory committee of three faculty members is appointed by the dean for each graduate student after completion of the equivalent of a full semester of graduate work, usually 12 hours.

Until the student receives notice of the appointment of an advisory committee, he/she should consider the chair of the major department as the adviser, unless the department otherwise makes provision.

Accelerated and 4-1 Programs

Students pursuing a bachelor's and master's degree concurrently as part of an accelerated or 4-1 program may count some graduate course credits toward both degrees. Up to 12 credit hours at the 55000 and 60000 level may be used in this way. Students must be officially accepted into these special programs and must enroll in the courses as graduate level students.

Admission to Candidacy, Master's

*Not applicable to the MBA or MLA program.

A student pursuing a master's degree will have a petition to candidacy prepared by the dean's office after nine or more hours of coursework have been completed and after all conditions to admission have been met, including the pertinent aptitude test records, departmental or other

required examinations, and foreign language requirements, if any. The student does not need to make a formal request for candidacy.

Registration for the second half of the thesis will not be accepted until all requirements for candidacy have been fulfilled. Until that time the student is not considered a candidate for a degree.

Intent to Graduate, Master's

At the beginning of the semester in which the student plans to graduate, the Intent to Graduate form should be filed with the appropriate dean's office. In the event that graduation cannot be completed, a cancellation form must be filed in the dean's office. The Intent to Graduate form must be refiled in case of postponement. A non-refundable graduation fee is charged when the intent is filed.

Thesis Preparation

The thesis required in many of the master's degree programs represents the climax of a student's program and is expected to demonstrate thoroughness of research, keenness of analysis and effectiveness of expression.

A student is required to register for at least six hours of thesis and must register for at least one hour during any fall or spring semester in which the student is working with committee members or using University facilities. Check specific department listings for further restrictions. During the summer, the student must enroll for at least one thesis hour in at least one of the summer sessions. In addition, the student must enroll for at least one hour of thesis in the semester in which he/she plans to complete the thesis and take the final oral examination.

General instructions for preparing and presenting theses should be obtained from the appropriate dean's office well in advance of the actual thesis writing. The form presented should be followed in all cases unless a recognized professional variation is authorized by the major department under agreement with the dean.

The thesis subject must be approved by the advisory committee, which should be consulted frequently in the progress of the thesis so that proper guidance may be given. All members of the committee should approve the thesis draft before the final version is posted. Students should particularly note the special deadlines for thesis preparation and distribution. These deadlines may be obtained each semester from the dean's office. The usual process requires electronic submission of a PDF file according to the instructions posted at lib.tcu.edu/NDLTD. Copyright and bound copies may be obtained; fees for these optional services are paid by the student.

Oral Examinations, Master's

Where master's degrees require a final oral examination the exam will cover all work taken for the degree, including the thesis, if any. The examining committee will be composed of the candidate's advisory committee, and others as may be designated by the major department. The examination may not take place later than the date listed in the deadlines for graduate students each semester.

The candidate must show satisfactory completion of all courses in the degree program, except those in progress, before the oral examination may be given. Only one re-examination on a failed oral will be permitted, the date to be set at the discretion of the examining committee. In addition to the final oral examination, written examinations may be required at the discretion of the major department.

A student must be enrolled for a minimum of one hour of credit during any term (fall, spring or any one of the three summer sessions) in which the student is using University facilities, working with faculty or taking the final oral examination.

Summer Completion of Degree Programs

A student planning to complete the thesis and/or oral examinations during the summer, particularly during the second five-week term, should check with advisory committee members prior to the end of the spring semester to affirm that their schedules will make them available during that period.

Time Limit, Master's

The student is expected to complete work, including thesis if required, within a period of five years from the date of the earliest credit to be counted on the degree (including transfer credit, if any). See M.J. Neeley School of Business Program Length for its requirement.

Extension of time must be applied for in writing through the chair of the major department, who will then make a recommendation to the dean of the school/college. The letter should explain why the degree was not completed within the time limit and should present a schedule for completing the program. Additional courses may be assigned to students who do not complete the degree within the time limit.

Doctoral and Ph.D. Degree Requirements

The Ph.D. degree is essentially a research degree. Although coursework is a necessary part of the program, the mere accumulation of course credits is not sufficient for attaining this degree.

The Ph.D. degree may be completed in three years at the minimum. Under the minimum program, the first two years will be given to coursework, seminars and related research. The third year primarily will encompass dissertation research. Students whose preparation is incomplete or who will be engaged in part-time teaching or paid research will extend their programs accordingly. In such cases, a four- or five-year program is not unusual.

A master's degree is not necessarily prerequisite to candidacy for the Ph.D. degree. A student entering a doctoral program after obtaining a master's degree would normally be classified as being in the second year of graduate study, as defined below.

Departments may, at their discretion, require that a formal minor be included in the total program. A formal minor requires at least six hours credit beyond the master's or 12 hours beyond the bachelor's degree.

All students in the doctoral programs are required to do a certain amount of teaching or research, appropriate to the goals of the student, as part of their training for the advanced degree.

Students must register for coursework or dissertation in each semester or summer session during which they utilize University research facilities or occupy a library carrel.

Residence Requirement, Doctoral

There is no general residency requirement. See specific degree listings for program requirements.

Transfer Credit, Doctoral

Limited non-research graduate credit earned from another accredited college or university will be considered for transfer to a doctoral program. Written request for transfer credit, with appropriate transcripts, should be made at the time of application for admission. Such credit must be applicable to the student's program as determined by his/her adviser; carry at least a "B" grade (3.0 on a 4.0 scale); and be residence credit, not extension or correspondence. Regardless of the level of entry for the doctoral program (pre or post master's degree), at least one-third of the credits toward a doctoral degree must be earned at TCU.

Permission to interrupt residence to earn graduate credit elsewhere for use on a TCU degree must be approved in advance with a formal request addressed to the dean and conferral with the department involved.

Foreign Language Requirement

Individual departments specify the conditions and policies for meeting foreign language requirements and conditions and policies for meeting these requirements. Consult the departmental graduate adviser for this information.

All foreign language requirements must be satisfied prior to admission to candidacy. International students may request their native language be accepted, but it must be one that is needed for research at TCU. They must demonstrate ability to translate this language into English and, if no examiner is available in the foreign languages department, pay any required fee for employment of an approved interpreter. The substitution must have the approval of the chairman of the major department and the dean of the school/college.

Advisory Committee, Ph.D.

An advisory committee of at least four persons will be assigned to the doctoral student by the dean on the recommendation of the major department. The committee will be appointed early during the second year and should consist of those persons under whom the student will take his/her qualifying examinations, including at least one person from the minor field, if any. This committee, with the student's dissertation director as chair, formulates the remainder of the student's program of study and submits it to the dean for approval.

Qualifying or Preliminary Examinations

All doctoral programs require some form of qualifying or preliminary examinations. It is the purpose of these examinations to evaluate the student's capability for advanced creative analysis and synthesis in the major specialization and related disciplines. The qualifying examination may not be taken earlier than the second semester of the second year of the student's graduate program. If language requirements exist, at least one language requirement must be completed prior to taking the qualifying examination. This examination will cover the major field, designated sub-fields and minor, if any. It must be written, or written and oral.

Only one re-examination will be permitted, and this only after such time interval and under such conditions of additional study as the advisory committee may decide. Each student should consult the departmental requirements provided in the course listings section for specific information regarding the type of examination, the fields to be covered and the expected completion date.

Admission to Candidacy, Ph.D.

A student becomes a candidate for the Ph.D. degree upon passing the qualifying or preliminary examinations and meeting the foreign language requirements of the department, provided he/she has also made up any course deficiencies and GRE scores have been recorded. The student does not need to make a formal request for candidacy.

Intent to Graduate, Ph.D.

At the beginning of the semester in which the student plans to graduate, the Intent to Graduate form should be filed with the appropriate dean's office. In the event that graduation cannot be completed, a cancellation form must be filed in the dean's office. The Intent to Graduate form must be refiled in case of postponement. A non-refundable graduation fee is charged when the intent is filed.

Dissertation Preparation

A dissertation is required in all doctoral programs. It must demonstrate superior research abilities, capacity for sound independent analysis and judgment, and effectiveness of expression. A student is required to register for at least 12 semester hours of dissertation and must register for at least one hour during any fall or spring semester in which the student is working with committee members or using University facilities. Check specific department listings for further restrictions. During the summer, the student must enroll for at least one dissertation hour during at least one of the summer sessions. In addition, the student must enroll for at least one hour during any fall or spring semester in which he/she plans to complete the dissertation and take the final oral examination.

Registration for the first half of the dissertation will not be accepted until the major department notifies the dean's office in writing that the student is eligible for dissertation registration. Registration for the second half will not be accepted until the student has been admitted to candidacy, and until that time the student is not considered a candidate for a degree.

Instructions for preparing and presenting dissertations should be obtained from the appropriate dean's office well in advance of actual dissertation writing. The form given should be followed in all cases unless a recognized professional variation is authorized by the major department under agreement with the dean.

As early as possible, each student should initiate a program of individual reading and study leading to the selection and development of the dissertation research. This program should proceed under the supervision of the chair and other members of the advisory committee. At least three, and preferably all, members of the committee should approve the draft of the dissertation before the final version is posted.

The student should note the special deadlines for dissertation preparation and distribution available each semester. The usual process requires electronic submission of a PDF file, according to the instructions

posted at lib.tcu.edu/NDLTD. Copyright and bound copies may be obtained; fees for these optional services are paid by the student.

Oral Examination, Ph.D.

Each candidate for a doctoral degree must take a final examination covering the dissertation and related fields. The examining committee will be composed of the candidate's advisory committee and others, as may be designated by the major department. The final oral examination will be announced and open for audit to the graduate faculty and to others invited by the advisory committee. The examination may not take place later than the date listed in the Special Deadlines for Graduate Students.

Only one re-examination on a failed oral examination will be permitted, the date to be set at the discretion of the examining committee.

A student must be enrolled for a minimum of one hour of credit during any term (fall, spring, or any one of the three summer sessions) in which the student is using University facilities, working with faculty or taking the final oral examination.

Time Limit, Ph.D.

The work for the Ph.D. degree must be completed within six years after the student has been admitted to candidacy. Extension of time must be applied for in writing through the chair of the major department who will then make a recommendation to the appropriate dean. The letter should explain why the degree was not completed within the time limit and should present a schedule for completing the program.

Admission

Texas Christian University will admit qualified students without regard to race, color, religion, gender, national origin, age and veteran or handicapped status, in accordance with Title IX and other governmental regulations.

Admission Requirements

For admission, an applicant must possess a bachelor's degree from an institution regarded as standard by the University and a regional accrediting agency.

For unconditional admission, the student must have satisfactory undergraduate preparation for the particular degree sought. This is determined by the chair of the major department and the dean of the appropriate school/college, and includes a "B" average in either the last 60 hours of undergraduate work or in all undergraduate work; a "B" average in the major field and satisfactory scores on the appropriate tests required by the school/college.

Individual departments or schools/colleges may set higher standards and require other tests. Specific departmental admission requirements are provided at the beginning of the list of departmental course offerings.

A satisfactory application does not guarantee acceptance. An application may be rejected if there are more applicants than openings in the intended major area or if the program TCU provides is not suitable to the applicant's vocational goals, for example.

Complete and certified transcripts (mailed from the registrar's office directly to TCU) from all colleges attended; an application form with application fee (see department website); and a Report of Health History, including documentation of the required immunizations, are required. These forms may be obtained from the TCU Health Center website, <http://www.healthcenter.tcu.edu/forms.asp>. International students must also submit the International and Student Scholar form found on the TCU Graduate Studies website under Admissions, <https://graduate.tcu.edu/>

Graduate Entrance Examinations

Official Scores on the Graduate Record Examination (GRE), Graduate Management Admission Test (GMAT) or other appropriate professional tests must be submitted if required by the major department. The examinations are administered through the Educational Testing Service (ETS). Official scores must be sent to TCU by ETS. See School/College/department listings for required tests and other admission requirements.

Information and registration bulletins for the GRE are available from ETS; GMAT applications are available from ETS and in the MBA Office, M.J. Neeley School of Business.

Undergraduate Prerequisites

In most departments, a minimum prerequisite of 24 semester hours is required in the major field.

Deficiencies in Preparation

A student who lacks certain courses prerequisite to full standing for graduate study must enroll in these as soon as possible by arrangement with the major department. ("Enrolled in" refers to a valid registration for an academic course at TCU.)

Types of Admission

TCU provides six types of admission:

Unconditional Admission

Unconditional admission may be granted to applicants who have met all of the general requirements for admission as well as the particular admission requirements of the department and school/college, and who have completed all admission formalities.

Conditional Admission

Conditional admission may be granted to applicants who have been unable to complete all admission requirements by the application deadline. In each such case, an appropriate, specific deadline for satisfying the explicit conditions is given to the student, not to exceed one semester, and may include restriction of hours to be taken as a conditionally admitted student. Special permission to extend the deadline by at most one semester may be requested in writing from the school/college dean. Students who have not removed the conditions by the extended deadline will not be permitted to register for classes. Schools and colleges may have more stringent policies regarding conditional admission.

Non-Degree Graduate Admission

Non-degree graduate admission may be given to an applicant who:

1. Meets the general requirements for admission;
2. Is not an applicant for a degree program; and
3. Wishes to enroll for graduate work for credit.

Non-degree admission requires completion of the appropriate application form, a letter stating why the student is requesting non-degree admission, \$60 application fee and submission of one official transcript mailed to TCU from the registrar's office of each college attended showing all work the student has previously completed. Applications for non-degree admission require the approval of the department concerned and the appropriate dean's office. A maximum of nine hours of graduate study is permitted under non-degree admission. Submit applications to the appropriate department/School/College (see Application Procedures Contact Information below).

Courses taken under this status are not credited toward requirements for a degree. If, at some later date, degree admission is desired, the student must complete all regular admission formalities. At the time of application for degree admission, courses previously taken as a non-degree student may be evaluated for possible degree credit. Upon recommendation of the department to which the student is admitted and with approval of the appropriate dean's office, a maximum of nine hours taken in non-degree graduate status may be credited toward degree requirements.

Visiting Graduate Student Admission

Visiting graduate student admission may be granted to students enrolled in graduate programs at other universities, but who desire to take courses from TCU for transfer. Students should get prior approval for this work from their graduate school since the receiving institution has the right to accept or reject transfer courses.

Requirements for visiting graduate student admission are a completed application form, including \$60 application fee, and a letter of good standing mailed to TCU from the registrar's office of the student's institution.

Admission for TCU Seniors

Admission for TCU seniors is sometimes permitted. A qualified TCU senior may begin graduate work during the final bachelor's semester. The student must be within nine hours of completing all requirements for the bachelor's degree and enrolled for the courses that will fulfill those requirements.

In addition to other application materials a statement of standing indicating that the student is within the nine-hour limit of completing the degree requirements from the registrar or the academic dean is required. These materials must be submitted prior to the registration period. This admission is limited to TCU seniors only and may be for degree admission or for non-degree student admission.

Workshop Admission

Workshop admission is a simplified admission procedure for students who wish to attend a special graduate seminar or workshop offered by TCU. Admission will be granted to applicants who hold at least a bachelor's degree from an accredited institution in the United States or proof of equivalent training at a non-U.S. institution and are in good standing at all colleges and/or universities previously attended.

Graduate credit will be given for grades of "B" or better. Such a student is not regarded as an applicant for a degree program.

TCU Faculty Admission

TCU faculty members with the rank of instructor or above who meet the regular requirements for admission are eligible to register for individual graduate courses or for graduate work leading to an advanced degree. However, they are not eligible to become candidates for a doctoral degree in the academic unit in which they are employed at TCU.

International Student Admission

Admission standards are the same for all students, regardless of country of origin or residency. However, students on F or J visas are required to show English proficiency.

Extra support/needs are reported to the graduate director, and the student will be notified as to courses needed during the students' first term and any subsequent terms of study.

Transfer students within the United States may submit evidence of one year of successful study (within the last two years) in order to have evidence of English requirements waived.

Financial Capability and Affidavits

F and J Visa students are required by U.S. law to provide evidence of sufficient funding to live and study in the United States prior to issuance of any immigration documents. A sufficient financial packet must include:

1. The TCU Financial Statement accompanied by an original bank statement indicating sufficient funding for ALL expenses. This may be completed by student, family, friend or organization, but must include specific financial data on official financial institution letterhead.
2. An Affidavit of Support from persons named in sponsorship records, verifying willingness to sponsor student. Students should submit any financial award from TCU as part of their financial portfolio.

All international graduate students must pay a non-refundable \$50 orientation fee, due at the time of application submission. There is an additional application fee for students applying to the Neeley School of Business.

Medical Insurance Coverage and University Health Record Requirements

All students on student visas must have insurance coverage during their entire time at TCU. The Brown-Lupton Health Center provides coverage for international students; enrollment is mandatory and automatic for all students, with the exception of those students in sponsored (J Visa) programs requiring purchase prior to arrival. Students with dependents (F-2/J-2) may request waiver under specific circumstances, but national coverage in home country does not merit waiver and will not be considered.

A medical history form with a record of all immunizations is required prior to registration and is included in the pre-arrival packet for international students.

Pre-Arrival Information

Mandatory orientation for international students occurs several days before other graduate student orientations. Orientation for graduate students occurs either in the fall or spring, depending on the semester they begin classes. New students should plan their arrival accordingly. For more information, international student services are found in the Brown Lupton University Union (BLU) Intercultural Center.

Wholeworld.tcu.edu contains information on the above requirements and answers many other questions students may have about coming to TCU. Included are Web applications to request a roommate prior to arrival; what students can expect upon arriving in Texas; and useful information that has been selected based upon student input on needed information before, during and after initial arrival in the United States.

Application Procedures Contact Information

Applications are available online. Visit the appropriate school/college website for specific information.

Neeley School of Business

Bob Schieffer College of Communication

College of Education

College of Fine Arts

AddRan College of Liberal Arts

Harris College of Nursing & Health Sciences

College of Science & Engineering

Graduate Studies

In addition to the application for admission, prospective students must have **two** official transcripts mailed from the registrar's office, for **all previous colleges attended**, to the appropriate office. If the last school attended was TCU, the appropriate office will obtain the necessary records. If necessary, official transcripts may be secured within a sealed envelope by the institution's registrar's office and hand delivered to the appropriate office at TCU.

Notices of admission to graduate study are not held for release on any particular date but are sent as soon as action is taken. Successful applicants are notified of the date for which acceptance has been granted.

Financial Information

Tuition and Fees

Tuition and fees at TCU are usually set in the spring to be effective with the following fall semester. Current tuition and fee schedules are available from:

Office of Graduate Studies

Scharbauer Hall, Suite 1016

TCU Box 297024

Fort Worth, TX 76129

(817) 257-7104

Financial Services

TCU Box 297012

Fort Worth, TX 76129

(817) 257-7836

or any dean's office.

Payment

Texas Christian University has a monthly billing cycle. Payment of a minimum 20 percent of total basic charges (tuition, fees, room, meal plan and student health insurance less approved financial aid) is required by the due date of the month that classes begin (August for the fall semester and January for the spring semester). The remaining net basic charges must be paid in full by the due date of the following month (September for the fall semester and February for the spring semester). Students who do not pay the net basic charges in full by the September due date for the fall semester and by the February due date for the spring semester will be automatically enrolled in the payment plan. Students in the payment plan will be billed for the remaining net basic charges in three monthly installments over the remainder of the semester. A payment plan enrollment fee will be assessed on the September bill for the fall semester and the February bill for the spring semester. To avoid automatic enrollment in the payment plan and the resulting enrollment fee, net basic charges must be paid by the September due date for the fall semester and by the February due date for the spring semester.

The payment plan is an extension of credit by TCU. Each payment plan will not exceed three months. Students enrolled in the payment plan receive a disclosure statement as required by the federal Truth in Lending Act. Disclosure statements are provided in September for the fall semester and in February for the spring semester. The disclosure statement shows the amount included in the payment plan and the enrollment fee required for participation in the payment plan, which will be added to the other charges due on the student's account. Students may review the disclosure statement upon receipt and may cancel the payment plan within 10 days of receipt by submitting written notice to the TCU Student Financial Services office ("Cancellation Period") if not satisfied with the proposed terms. If the payment plan is cancelled during the cancellation period, the student's account will be credited for the enrollment fee. After 10 days of receipt of the disclosure statement, students may cancel the payment plan by submitting written notice to the TCU Student Financial Services Office, but the student's account will not be credited for the enrollment fee. If the payment plan is not cancelled, the student is committed to pay the total of payments shown on the disclosure statement according to the payment schedule shown on the disclosure statement. Cancellation of the payment plan will not release the student from financial obligation to TCU. If the payment plan is cancelled either within the cancellation period or after the cancellation period, payment in full of the unpaid basic charges for the semester will be due immediately.

More detailed information about the payment plan option is available from the director of student financial services. The payment plan option is not available for summer sessions. All summer registration charges (tuition, fees and housing) are due and payable by the due date specified on the first bill received after summer registration occurs.

Late fees will be assessed for payments not received within 10 days of the stated due date.

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).

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. Student accounts must be current to be eligible to make residential housing reservations and to make charges to student accounts using the student's University identification card.

Miscellaneous Charges

University Store purchases, library and parking fines, health insurance, health center services and medications, parking permits, copying charges, dining add-on charges and other miscellaneous charges are billed monthly and must be paid in full each month. Late fees will be assessed for payments not received within 10 days of the stated due date.

Refunds

For a fall or spring semester, a student who withdraws from a course or from the University on or before the fifth class-day may receive a 100 percent tuition refund. If withdrawal occurs on or before the 10th class day, a 75 percent tuition refund is made. A 50 percent tuition refund is made upon withdrawal 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.

Financial Aid

Graduate assistantships are opportunities for TCU graduate students to advance their studies and careers through meaningful contributions to the academic mission of the University. Graduate assistants participate in TCU's Teacher-Scholar Model by working closely with faculty and staff while supporting the administrative infrastructure; generating new knowledge, creative activities and artifacts through scholarly endeavors; and teaching undergraduate students, either as teaching assistants or instructors of record. Assistantships provide financial aid to graduate students while fostering mentorships between students and committed TCU faculty and staff, who benefit from student involvement in their own teaching, research and creative activities.

TCU's Academic Engagement points are centered on the Teacher-Scholar and Student-Scholar models. As graduate students are in transition between these models, it is expected that students may hold various assistantships during their graduate career. If a student is awarded an assistantship, hiring for additional, concurrent positions such as a TA/RA assignment must be approved through the Office of Graduate Studies and will be added onto the current assistantship. This ensures students are committed to no more than the maximum allowed 27 hours per week without special permission from the dean of graduate studies. During the academic year, international students may work no more than 20 hours per week in assistantship duties, per visa requirements. Awards and assignments will be determined by each graduate program, and the awarding unit may require that awardees maintain full-time status.

Outside employment for students holding financial awards carrying stipends is allowed. However, we ask that you receive counsel regarding how outside employment may impact your success in the program from the program director and the dean of the appropriate graduate program prior to accepting outside employment opportunities. Also, prior approval to obtain any additional internal (TCU) employment opportunities may be required in order to ensure compliance with institutional policies and regulations.

The University recognizes six types of graduate financial awards. The following categories provide partial or whole tuition awards and often include a stipend that will be divided over the length of the appointment, usually nine or 12 months. Stipend amounts are

determined by the head of the graduate program or other awarding unit.

Fellowships

Fellowship recipients are not required to support the academic missions of the University through duties. Fellowship awards provide financial assistance through tuition awards and/or a stipend. Fellowships are awarded by the head of each graduate unit and are divided over the appointment (usually nine or 12 months). Graduate Fellows may be encouraged to take additional semester hours and/or participate in professional development and leadership roles based on the needs and expectations of the graduate program.

Stipends to Attract Remarkable Students (STARS) are special fellowship awards added onto regular assistantship or fellowship awards as a recruitment enticement for exceptional applicants pursuing terminal degrees in their field of study (i.e., Ph.D. or Masters of Fine Arts). No additional duties are associated with the STARS stipend regardless of the initial regular award. STARS stipends are provided for three years for doctoral student awardees and for two years for master's-level students.

STARS stipend regardless of the initial regular award. STARS-D stipends are renewable each year as long as the student maintains satisfactory progress in the program.

Graduate Assistantships

Graduate Assistants (GAs) help with program-related work for a graduate or other awarding unit. GAs are assigned to departments or graduate colleges and directors of academic programs rather than to assist individual faculty or staff members with research or teaching duties.

Since primary GA duties are neither research or teaching, timesheets must be completed, reviewed by the supervisor and submitted to Human Resources for each pay period.

Graduate Instructorships

The opportunity to teach an independent section of a lecture or lab course is vital for the development of graduate students as well as for their careers. Graduate Instructors (GIs) usually teach sections of undergraduate classes. They are recommended by the director of their graduate program and appointed by the dean or dean's representative of the course program. GIs must hold at least 18 earned credit hours of graduate work in the discipline of the course. Doctoral students who have completed a master's degree may teach master's-level courses, depending on the discipline and determined by the head of the graduate program. Maximum teaching assignment for a GI is one writing-intensive course; two lecture courses; or three labs each semester. These assignments carry a workload of no more than 20 hours per week.

Graduate Instructors are instructors of record for lecture courses or supervisors of complete lab courses and are responsible for all course preparation and research and for supervising Teaching Assistants assigned to their courses/labs. GIs hold ultimate responsibility for grading, equipment care, ordering textbooks and holding office hours. GIs are not adjunct faculty.

Merited Tuition

Some awards of tuition only (no stipends) are made without the expectation or requirement of duties performed by the awardee. These are usually one- or two-semester awards of less than 6 tuition hours each semester.

Research Assistantships

Demonstrating the Student-Scholar Model by offering students the opportunity to participate in faculty-led research projects allows Research Assistants (RAs) to experience the various stages of completing a focused research project. RAs provide research support to designated faculty members through experiment design; data collection; proofreading or copyediting written materials; managing correspondence related to the research project; and/or scheduling, organizing or completing library, online or field research. These appointments may, or not, be grant supported and RAs are not exempt from teaching training obligations that comprise a core component of their program of study.

Though they may have the opportunity to participate in courses related to faculty research projects, RAs are not considered primarily teaching support; their duties are primarily research functions.

Teaching Assistantships

Teaching Assistants (TAs) perform work relating to the Teacher-Scholar Model, blending experiences of teaching and scholarship as they assist a faculty member or GI. TAs support core teaching duties within each graduate program such as by monitoring undergraduate laboratories and supporting large lecture sections through attending class, taking attendance, calculating averages, grading exams, monitoring online discussions and providing occasional lectures. TAs may also assist a professor through data collection; proofreading or copyediting written materials; managing correspondence; and/or library, online or field research. These assignments carry a workload of no more than 20 hours per week.

TA duties are primarily related to teaching. TAs are not, however, instructors of record or adjunct faculty and do not carry full responsibility for the courses they assist.

Appointment Terms

1. An appointee must enroll as a full-time graduate student each semester and summer session during which a stipend or tuition grant is drawn. In exceptional circumstances, provisions might be made for part-time students. Otherwise, if the appointee drops courses that cause the enrollment to fall below the minimum full-time academic load, he/she will be requested to vacate the appointment.
2. Students enrolled in a 4-1 program must have completed all requirements for the undergraduate degree in order to receive graduate financial aid.
3. If a student's graduate work is not satisfactory, the appointment may be terminated.
4. Recipients of awards are required to pay the fees required of all other students and any tuition not covered by the award.
5. Assistantship duties are restricted to a maximum of 20 hours per week.
6. Outside employment for students holding financial awards carrying stipends is allowed. However, we ask that you receive counsel regarding how outside employment may impact your success in the program from the program director and the dean of the appropriate graduate program prior to accepting outside employment opportunities. Also, prior approval to obtain any additional internal (TCU) employment opportunities may be required in order to ensure compliance with institutional policies and regulations.
7. The tuition remission grant is to be used during the duration of the appointment and may not be carried over for another term or semester.
8. The tuition remission grant covers courses that will be credited toward the student's degree. This may include prerequisites set by the department.

Note: In general, any payment to a student in return for providing services to TCU that are not directly related to the students overall educational progress, is considered compensation for employment and is, therefore, taxable.

The paragraph above is a statement of general applicability. It is not to be construed as legal advice. Students seeking particular advice should consult with the appropriate University officials and/or seek competent professional assistance.

Application Procedures

Some departments require a special application form for financial aid in addition to the regular application for admission. This form, available from the appropriate dean's office and/or on the website, may be submitted at the same time as the application for admission.

Fellowship and assistantship applications for the fall semester are due between February 1 and March 15, depending on the department. Contact the appropriate dean's office for deadlines. Appointments are announced by April 15. Initial appointments are not usually available for the spring and summer semesters.

TCU adheres to the following Resolution of the Council of Graduate Schools in the United States:

"Students are under no obligation to respond to offers of financial support prior to April 15; earlier deadlines for acceptance of such offers violate the intent of this Resolution. In those instances in which a student accepts an offer before April 15, and subsequently desires to withdraw that acceptance, the student may submit in writing a

resignation of the appointment at any time through April 15. However, an acceptance given or left in force after April 15 commits the student not to accept another offer without first obtaining a written release from the institution to which a commitment has been made. Similarly, an offer by an institution after April 15 is conditional on presentation by the student of the written release from any previously accepted offer."

Ex-Service Men and Women Graduate Education

The benefits available to undergraduate veterans are also available for graduate students. These matters are cleared through the Veterans Certification Officer, The Harrison, Suite 1300.

Federal and State Student Financial Aid

Financial aid, including student loans and grants are available for full and part-time students. Many of these awards are available to U.S. citizens or permanent residents only.

Applicants can file the FAFSA (Free Application for Federal Student Aid) after October 1 of every year. Priority for some grants is given to students who complete the financial aid application process by May 1. Applying after that date will not affect the applicant's loan eligibility.

In addition to the Federal Stafford Loan Program, graduate students may be eligible for the Federal Graduate PLUS Loan, state loan or private education loans. Further information is available at www.financialaid.tcu.edu. Students are encouraged to borrow no more than is absolutely necessary to cover their educational costs.

Citizens of other countries with a qualified U.S. co-signer may be eligible for private student loans. For information on private educational loans go to www.financialaid.tcu.edu – Education Loans – Private Education Loans.

All individuals whose FAFSA is selected for verification will be required to submit appropriate tax information and other documentation as needed to confirm the accuracy of the application. Contact the graduate financial aid adviser in the Office of Scholarships and Student Financial Aid for additional information.

The following Financial Aid Satisfactory Academic Policy (SAP) applies to graduate students receiving state or federal aid (including loans):

- Graduate students are subject to the academic performance standards established within each academic department. Both qualitative and quantitative measurements are reviewed by the student's academic adviser when certifying continued eligibility in the program.
- The student is expected to complete master's degree requirements, including thesis if required, within a period of five years from the date of the earliest credit to be counted on the degree (including transfer credit, if any). The student can contact their individual department for exceptions to this requirement. Work for the Ph.D. must be completed within six years after the student has been admitted to candidacy and within seven years of the start of the program. Extension of time must be applied for in writing through the chair of the major department.

Students who fail to meet these standards, due to significant extenuating circumstances may appeal for reinstatement of aid eligibility by submitting a request to the financial aid office.

TCU's SAP policy for graduate students who receive Title IV aid is at least as strict as the standards for students enrolled in the same educational program who are not receiving Title IV aid. See <https://financialaid.tcu.edu/consumer-information/policies/academic-satisfactory-progress.php>

All students are required to maintain certain requirements to receive federal or state financial aid. Credit hours attempted, credit hours completed and TCU GPAs are reviewed, in consultation with the appropriate academic dean, to determine whether satisfactory progress is being maintained.

Return of Federal Financial Aid

A student who withdraws from the University before the 60 percent point in the enrollment period (summer, fall or spring) may have to return a pro-rated portion of the financial aid he/she received or that

TCU received on his/her behalf. Detailed information about the federal policy on the Return of Title IV Funds is available at <https://financialaid.tcu.edu/withdrawals-and-return-of-funds-policy/>.

Special Grants

Personal/Professional Development Grant

Eligibility: Year-round part-time students (enrolled for eight hours or less) who are at least 22 years of age by the final day of late registration may apply. Student must not exceed income limitations stated on the application. Grant may not be combined with other TCU administered aid. Good academic and financial standing at all colleges and universities attended is required. Students receiving this award must maintain satisfactory academic progress.

Tandy Grant

Eligibility: Tandy Corporation employees and their lineal descendants are eligible to be considered. Employees may be part-time students. However, descendants must be full-time students.

Policies and Procedures

Graduation Participation

Policy Governing Student Participation in Commencement

Commencement ceremonies recognize academic achievements of students and faculty. While ceremonial in nature, commencement is a time for the university to celebrate a major milestone in the life of the academic community. Participation in commencement at Texas Christian University is an honor shared among graduates.

A Student participates in the commencement ceremony following the term in which the student completes all requirements for the degree (Spring semester graduates participate in the May commencement. Summer and fall semester graduates participate in the December commencement.)

Graduation is approved by the academic dean of the student's major in the form of a formal degree plan (completion of the degree is audited by the Registrar) and by the Controller's indication that the student has met all financial obligations to the university.

Students who have an approved degree plan from their dean that would make them eligible for a commencement, but fail to complete that degree plan may appeal to the Registrar to participate in commencement. If approved, such students will not receive a diploma or have their name in the commencement program, but will have their name read as they cross the stage. All appeals regarding participation in commencement are made to the Registrar, and the Registrar's decision in these cases is final.

Interpretative Note:

This policy is frequently applied at May Commencement. Students who are completing degrees in the summer frequently request to walk in the May commencement. This policy does not permit that. Only students who are graduating in the spring semester are allowed to participate. The only exception is for students who are: 1) registered and expected to complete all required courses in the semester of commencement; 2) have a degree plan in the Registrar's Office with an expectation of graduation; 3) find out when final grades come in that they have not met requirements; and 4) make a written appeal to participate. This exception is allowed to accommodate friends and family who may already be in transit at the time the student learns of failure to meet graduation requirements.

Registration

Students must be enrolled as graduate students to be eligible to receive graduate credit. Graduate students planning to enroll for courses offered outside the unit in which they will receive their degree must receive written permission to enroll from a representative of the unit offering the course. Permission to enroll must be obtained prior to enrollment. Failure to receive prior written permission may result in cancelled enrollment because of space or program requirements.

All students and prospective students are responsible for consulting and following the academic calendar, which includes dates for the registration periods.

Adding Courses/Schedule Changes

The academic calendar specifies the last day for adding or changing courses each semester and each summer session. Any changes in schedule after the posted deadlines, including section changes, require permission from the student's dean.

Withdrawal from Class

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.

Mere absence from a class does not constitute withdrawal. In order to withdraw from a course, a student must go through official established procedure.

Students may withdraw from classes with no academic penalty through 70 percent of class days. The last day to declare P/NC will be the day following the last day to withdraw. (Exam days are considered class days. The last day to withdraw will be the last whole day not to exceed 70 percent.) Consult the official academic calendar for withdraw dates during summer terms. The date of withdrawal for all purposes, including tuition adjustment, shall be the date of official withdrawal. No withdrawals are allowed after this date during the fall and spring semesters, or a comparable period during a shorter term.

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 school/college of his/her major. 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 the instructor of the course, the chair of the department and the dean of the school/college in which the course is offered. Any dean assigning a "Q" will notify the Office of the Registrar.

Academic Load

A student must be enrolled for a minimum of six hours of graduate courses to be considered a full-time student. However, 12 or more hours are required in some programs to meet the special regulations under which some students attend; these cases will be considered individually by the department chair and the appropriate dean. A graduate student registering for a total of six semester hours during the three summer terms will be considered a full-time graduate student.

If a student has successfully completed all coursework, including thesis and dissertation hours and lacks only the thesis or dissertation completion, the student must be engaged in full-time research and enrolled for a minimum of one hour of thesis or dissertation credit during any fall or spring semester in which the student is working with his/her committee or using University facilities. A student working with the committee or using University facilities during the summer must enroll for at least one thesis or dissertation hour during one summer session. In addition, students must enroll for at least one hour of thesis or dissertation in the semester during which he/she plans to complete the thesis or dissertation and take the final oral examination.

A student holding a full-time teaching assistantship or a fellowship may have additional enrollment restrictions and requirements. A combination of coursework, research and/or teaching may be part of the assistantship/fellowship requirement. Approval by the department chair and the appropriate dean are needed in these special cases, and the student should consult with the chair and dean to be sure their academic load meets the requirements.

A graduate student doing no outside work may carry a maximum of 15 semester hours during each of the fall and spring semesters.

The University reserves the right to suspend or restrict the re-enrollment of any student who demonstrates that he/she is suffering an emotional, nervous or mental disorder or impairment that renders the student unable to profit from or contribute to the educational program of the University or that is harmful or disruptive to others.

Determining Full and Part Time Enrollment

Graduate Students

Full-time enrollment for graduate students is 6 hours.

4.50-5.99 hours is 3/4 time

3.00-4.49 hours is 1/2 time

.50-2.99 hours is 1/4 time

Round down to nearest cutoff.

- Graduate students enrolled in the last semester necessary for graduation may be considered full time if their enrollment is less than 6 hours except for purposes of federal financial aid.

Audit Enrollment

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. A non-refundable audit fee is charged. Students wishing to audit graduate courses must be admitted for graduate study in the appropriate program and have written approval of the instructor of the course for which they wish to register. Non-degree graduate students wanting to audit graduate courses must be admitted to graduate study through the dean of the appropriate school/college and have written approval of the instructor of the course prior to registration. Students wishing to audit MLA courses must be admitted to the MLA Program and have written permission from the instructor of the course prior to registration. The following regulations are applicable:

1. Certain classes - Laboratory and clinical classes; day ranch management classes; laboratory sections of lecture classes; activity and performance classes, such as in studio art, music and ballet classes - may not be audited.
2. Registration to 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's academic calendar.
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 certified by the instructor as a final grade will be omitted from the student record.

Part-Time Attendance

Although the University encourages full-time graduate study, registration for part-time study is appropriate in several degree programs, including business, education, MLA and others.

Evening Classes

In some fields, graduate work is offered in evening classes; in others, the work is given in day classes only. Prospective students should consult the schedule of classes for graduate courses offered during the evening. To receive graduate credit for such courses, students must register through the appropriate school/college and not the Office of Extended Education.

Summer Enrollment

A student may not enroll in more than three hours in the mini-term or more than six hours during either a five-week term or eight-week term. When enrollment includes both an eight-week term and either a mini- or five-week term, the student's enrollment may not exceed a total of nine hours.

Graduate Credit

Each course is assigned a five-digit number. The first digit indicates the level at which the course is offered (5 for senior and graduate; 6, 7, 8 and 9 for graduate only). The second, third, and fourth digits distinguish one course from another within the same department. The fifth digit indicates semester hour credit; when the fifth digit is zero, it is either variable credit, non-credit or the credit includes a fraction. Thus Biology 50113 is a senior and graduate- level course (first digit) for three semester hours credit (fifth digit). The three middle digits identify it as Cellular Physiology.

All credits applied to a graduate degree must be of graduate level (50000 and above); at least half of all coursework, inclusive of thesis or dissertation, must be courses with a first digit of "6" or higher.

Graduate students taking courses of "50000" rank will be evaluated differently than undergraduates, according to the course syllabus. Students in 4-1 or Accelerated Programs must enroll in the "55000" courses in order to receive graduate credit toward the master's.

In departments listing 50000-, 60000- and/or 70000-level courses, no more than 15 hours may be accrued toward the master's degree at the 50000 level. Ph.D. students must have departmental approval for 50000-level coursework. No 50000-level course may be taken for credit at TCU by an MBA student unless approved on an exception basis by the MBA academic program director.

No graduate credit is given for courses of less than 50000 rank taken at TCU. No graduate credit is given for undergraduate courses taken at TCU or elsewhere.

Academic Rating System

The definition of grades and grade points is as follows:

Grade	Grade Points	Grade Descriptions
A	4.00	Excellent
A-	3.67	Good
B+	3.33	
B	3.00	
B-	2.67	Marginal
C+	2.33	Unsatisfactory
C	2.00	
C-	1.67	
F	0.00	Failing
I		Incomplete
P		Pass
NC		No Credit
W		Withdrew
Q		Dropped by permission of the Dean
AU		Audit

Graduate students must maintain a GPA of at least 2.75 in accordance with the provisions described under Academic Warning. All grades will be included in the computation of the GPA, but no more than two grades of "C+" or lower may be utilized in satisfying degree requirements. Schools/colleges may have more restrictive policies regarding marginal and failing grades. Students are advised to consult the policies of their specific programs.

An "I" (Incomplete) grade is recorded when the student and instructor have determined that the work required for a course cannot be completed within the term of enrollment due to circumstances beyond the control of the student. Under no circumstances will a grade of "I" be given to avoid earning a grade of "F" for the course.

The "I" grade must be removed within the first 60 days of the regular semester immediately following or it is changed to an "F." Any extension of this time must have the written approval of the instructor and dean. This policy does not apply to graduate thesis, thesis-recital and dissertation hours.

"I" grades on theses and dissertations are removed by special reporting forms when the student completes the work.

Grade Point Average

Two GPAs are maintained by TCU:

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 GPA is computed by dividing the number of grade points (grade points 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). Grade replacement is not allowed for repeated courses. All grades will be included in the calculation of the graduate cumulative GPA.

Transfer Credit Hours

Transfer credit 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.

Academic Warning

See specific school/college and program sections for further information regarding grade point requirements.

Full-Time Students

A graduate student who achieves a GPA of less than 2.75 in any semester or term will be placed on academic warning. A student can be removed from that status by achieving a 2.75 cumulative average by the end of the next nine hours of enrollment. If the student should fail to do so, further enrollment will be granted only by the special recommendation of the chair of the department concerned and with the permission of the dean of the school/college in which the student is enrolled.

Part-Time Students

Graduate students enrolled for less than a full load will be placed on academic warning when their accumulated part-time course load totals at least nine hours and falls below a 2.75 cumulative GPA. A student can be removed from that status by achieving a 2.75 cumulative average by the end of the next nine hours of enrollment. If the student should fail to do so, further enrollment will be granted only by the special recommendation of the chair of the department concerned and with the permission of the dean of the school/college in which the student is enrolled.

Dismissal, Suspension or Expulsion

Students may be dismissed from individual courses with a grade of "F" for lack of academic progress or for conduct deemed to be contrary to the professional or ethical standards of a field upon the recommendation of the responsible faculty member and the approval of the appropriate academic dean.

At such times as the student fails to meet acceptable standards of academic performance or has engaged in professional misconduct, at the discretion of the dean of the school/college in which the student is enrolled, the student may be

1. Dismissed or suspended from a program of study, and/or
2. Expelled from the University.

If a student is dismissed, suspended or expelled from the University, an appropriate grade or designation will be recorded for each course in progress as determined by the dean with oversight for the course in consultation with the dean of the school/college in which the student is enrolled.

Foreign Language Examination

Each student must check on foreign language requirements for their major and any special deadlines for their completion. The language examination, when required, is administered by the student's major department. The student is responsible for scheduling the time of the examination with the department.

Conferring of Degrees

Degrees are conferred by TCU at the close of the fall and spring semesters and at the conclusion of the summer term. Commencement exercises take place only at the conclusion of the fall and spring semesters. Students graduating in May or December must make arrangements to have examinations completed 72 hours prior to commencement exercises. Degrees will not be released unless the student has satisfied all financial obligations to the University.

Transcripts of Academic Records

Students and former students may request official transcripts of their TCU academic record from the Office of the Registrar for a transcript processing fee. All transcript requests must be made by the student. Adequate notice, normally one week, is required for transcript processing. Transcripts will not be released unless the student has satisfied all financial obligations to the University. Disciplinary actions do not appear on the official transcript, but students who leave the university after disciplinary action or when disciplinary action is pending may at the discretion of the Dean of Campus Life have a letter attached to the official transcript describing their disciplinary problem or suggesting that the recipient contact an appropriate person in the Office of Campus Life.

Student Access and Accommodation

Texas Christian University complies with the Americans with Disabilities Act, as amended, and with Section 504 of the Rehabilitation Act of 1973 regarding postsecondary 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 will provide reasonable accommodations for each eligible student who has a physical or mental health diagnosis that substantially limits a major life activity, has a record or history of such diagnosis, or is regarded as having such diagnosis.

To apply for reasonable accommodations, all students must submit an online application for accommodation to the Student Access and Accommodation office. Students will use their TCU username and password to access the online application. Student Access and Accommodation will confirm by email to the student's official TCU email account when the application has been successfully submitted. Once the application has been submitted, students will be prompted to submit supporting documentation based on their disability type(s) from a qualified professional that meets the University's official documentation guidelines. Each eligible student is responsible for presenting relevant, verifiable, professional documentation and/or assessment reports to the Student Access and Accommodation office. 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. Further documentation may be required from the student to confirm the presence of a disability or to assist the University in determining appropriate accommodations.

All accommodation requests are reviewed by the Student Access and Accommodation Documentation Review Committee (DRC). A follow up appointment will be requested once the application and documentation have been reviewed. Students will be sent an email through their TCU email account to schedule a follow up appointment to discuss the outcome of the review and any accommodations that have been approved. For approved disabilities-related services/accommodations, the office will prepare eligibility notification for the student's faculty members concerning specific, reasonable academic accommodations. The student is responsible for requesting accommodation notification each semester they would like to use their accommodations. The Notification of Accommodation Request Form is available on the Student Access and Accommodation website. Notification of accommodations will be sent via TCU email to the student and faculty after requested by the student. It is the student's responsibility to confer with faculty members regarding their accommodations in order to determine a plan for implementation. An interactive process is absolutely essential and relies on the student's initiative. Accommodations take effect once the student and faculty members receive the accommodation notification and the student conferences with each faculty member(s). Accommodations are NOT retroactive. Student Access and Accommodation staff are available to consult with the student and with University faculty and staff to ensure delivery of appropriate support services. The Student Access and Accommodation office serves as a liaison between the student and the faculty member as needed.

The Student Access and Accommodation office is located in The Harrison, Suite 1200, and can be reached at 817.257.6567.

Students who wish to appeal a decision regarding appropriate accommodations may do so in writing to the Chief Inclusion Officer/and or their designee, who shall decide the appeal. Contact information for the Chief Inclusion Officer/and or their designee is 817.257.4803 at TCU Box 298980, The Harrison 1807, Fort Worth, TX 76129

Family Educational Rights and Privacy Act

This Federal law states that a written institutional policy must be established and 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 the offices of the Provost/Vice Chancellor for Academic Affairs, The Harrison Suite 3100; Vice Chancellor for Student Affairs, The Harrison Suite 2200; Dean of Campus Life, The Harrison Suite 1600; Registrar, The Harrison Room 1300; or Scholarships and Financial Aid, The Harrison Suite

There are six rights, which are summarized here:

1. *The Right to be Informed.* The University will give 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, email address, image, 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.

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.

Adults and minors who give alcohol to minors or buy alcohol for minors also face stiff penalties. The punishment for making alcoholic beverages available to a minor has been increased from a Class C misdemeanor (fine only) to a Class B misdemeanor (fine and/or jail).

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.

Professional Behavior Standards

Graduate students at TCU occupy a unique position in the student body. They are more mature individuals with a defined perspective for the future and a high degree of both motivation and ability. In some instances, they are both seeking advanced knowledge and transmitting knowledge through their assignments as teaching or research assistants. While preparing for the professional models characteristic of their chosen discipline, they also serve as models to others in the graduate student role. All of this brings a special obligation to evidence a level of conduct that is compatible with the University's goals to offer programs of excellence and to enrich both the community and humankind.

Graduate students are expected to be familiar with and adhere to the published academic policies, rules, regulations and procedures of the University, as well as appropriate local, state and federal laws. The guiding principle is to conduct oneself in a manner that reflects well on the individual, the University and the academic process. The student is also expected to be responsible for his/her invited guests.

Violations of conduct relative to expected standards of professional behavior will be subject to disciplinary action up to and including expulsion from the University. Violations are to be reported to the dean of the school/college in which he/she is enrolled, who will be responsible for investigating all allegations and recommending appropriate disciplinary actions.

Disruptive Classroom Behavior and Lack of Academic Progress

Disruptive behavior is prohibited. Disruptive behavior includes, but is not limited to, conduct that substantially interferes with or obstructs the teaching or learning process. Civil expression of disagreement with the course instructor, during times when the instructor permits discussion, is not itself disruptive behavior and is not prohibited.

When any student, acting individually or in concert with others, obstructs or disrupts, or attempts to obstruct or disrupt any teaching, research, administrative, disciplinary or public service activity, or any other activity authorized to be discharged on behalf of the University or held on the University's premises, the student may be asked to stop the disruptive behavior by an instructor or staff of the University. If the student continues, an instructor/staff member is authorized to tell the student to leave the area or classroom and, if the student will not leave, to call campus police.

The instructor/staff may immediately call campus police, without prior request to the student, if presented with an unsafe situation, threatening behavior, violence or in other appropriate circumstances.

1. ***Withdrawal of Student From Class or Other Educational Experience.*** When a student disrupts a class or other educational experience, acts in a threatening manner, is not making acceptable academic progress, or if the student's behavior or lack of preparation is detrimental to the educational experience of others or could create an unsafe condition, or if the student is compromising the learning environment, the instructor may take action to withdraw the student from the class or educational experience.

To do this, the instructor shall provide the student written notice of intent to withdraw the student from the class or educational experience, with an explanation of the instructor's reason(s), and with a copy to the instructor's department chair (or, when there is no department chair, to the associate dean of the instructor's school/college). The notice should schedule a meeting with the student and the department chair (or, when there is no department chair, with the associate dean or dean of the instructor's school/college) to occur within seven days of the notice. The instructor may bar the student from the class or educational experience pending the result of the meeting, and the written notice should advise the student if there is such a bar. At the meeting, the student may have one adviser. Following the meeting, the instructor shall decide whether to withdraw the student from the class or educational experience. If a student is withdrawn, his/her grade will be recommended by the instructor to the dean of the instructor's school/college as either a "Q" or an "F." The student may appeal this decision within seven days in writing to the academic dean or designee. During the student's appeal, the student remains withdrawn from and is barred from attending the class. The academic dean or his/ her designee's decision on this appeal is final.

2. **Denying Enrollment, Suspension, Expulsion, and Other Appropriate Action.** When a student disrupts a class or other educational experience, acts in a threatening manner, is not making acceptable academic progress, or if the student's behavior or lack of preparation is detrimental to the educational experience of others or could create an unsafe condition, or if the student is compromising the learning environment, or if the student has acted contrary to the professional or ethical standards of the University, a department thereof, or a particular field, an academic dean, or the dean's designee, may additionally:
- Deny class enrollment to the student; or
 - Suspend or expel the student from the University or from one or more of its programs; or
 - Take other appropriate action.

The student affected by such a decision by an academic dean, or the dean's designee, may appeal in writing within seven days to the Academic Appeals Committee. The decision of the academic dean (or designee) remains in place during the pendency of the appeal. The Academic Appeals Committee's decision on the matter is final.

A student so suspended or expelled shall have a grade of "Q" or "F" recorded for each course in progress as determined appropriate by the academic dean. The transcript will not record suspension or expulsion.

Non-students and Non-Enrolled Students. Non-students and students not enrolled in class may be permanently removed by an instructor of the class, without formal review. Non-students who disrupt University activities may be removed from campus and banned from returning. Other. Although some disruptive behavior may be due to a mental or physical disorder, as it relates to violence, disruptive or threatening behavior, students with such disorders will be held to the same standards as others.

Nothing in this policy limits a person, including, but not limited to, an instructor, academic dean, associate dean or department chair from referring a matter to the Office of the Dean of Campus Life or pursuing disciplinary action against a student or person through a complaint filed in the Office of the Dean of Campus Life.

This policy is not intended to limit any authorized University employee, staff member, official, vice chancellor, chancellor, members of the Board of Trustees or a member of the Office of Dean of Campus Life, from appropriately addressing behaviors covered by the policy.

Firearms and Deadly Weapons Policy

Texas Christian University is committed to providing a safe environment for employees, students and campus visitors. Therefore, the University, in accordance with the Texas Penal Code, prohibits the possession of any firearm or deadly weapon on University property or at University-sponsored events, even if an individual has been issued a license by the state. Violation of this policy will result in disciplinary action.

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.

All incoming students under the age of 22 must submit proof of having received a bacterial meningitis vaccine within the past 5 years. Students will not be allowed to enroll in classes until they have submitted proof of the vaccination to the Health Center. Immunization proof should be submitted via one of the following required forms: For students living in the United States: US1107Compliance.pdf OR for Students currently/recently living outside of the United States International1107Compliance.pdf. For more information visit the TCU Health Center's website www.healthcenter.tcu.edu or email healthinfo@tcu.edu.

Academic Conduct

An academic community requires the highest standards of honor and integrity in all of its participants if it is to fulfill its mission. 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 that can arise that violate these standards. Further, the policy sets forth a set of procedures, characterized by a "sense of fair play," which is used when these standards are violated. In this spirit, definitions of academic misconduct are listed below. These are not meant to be exhaustive.

1. 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:
 - i. Copying from another student's test paper, laboratory report, other report, or computer files and listings.
 - ii. Using in any academic exercise or academic setting, material and/or devices not authorized by the person in charge of the test.
 - iii. Collaborating with or seeking aid from another student during an academic exercise without the permission of the person in charge of the exercise.
 - iiii. 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.
 - iiiii. 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.

2. Procedures for Dealing with Academic Misconduct

a. Definitions

- i. Day refers to a school day on which classes are meeting.
- ii. Academic dean refers to the dean of the college or school offering the course in which the academic misconduct is alleged to have taken place.

- iii. Department chair refers to the academic administrator responsible for the unit providing the instruction in which the alleged academic misconduct occurred.
- iiii. Faculty refers to the instructor of the course in which the suspected academic misconduct occurred.
- iiiii. Adviser refers to any person selected by the student who accompanies the student during formal hearings. The adviser may speak with the student but may not actively participate in the hearings.
- iiiii. The Academic Appeals Committee is a standing University committee. The charge and membership of the committee may be found in the current Handbook for Faculty and University Staff.

b. Investigation and Initiation

- i. Students who know of an act of academic misconduct should report the incident to the faculty member teaching the course. The faculty member will obtain the basic facts of the allegation and ask the student reporting the misconduct to write and sign a statement of facts. The name(s) of the student(s) reporting suspected academic misconduct will remain confidential during the informal faculty/student meeting, but must be revealed to the accused student if the resolution proceeds beyond the faculty member and the accused student.
- ii. Faculty who suspect academic misconduct or who have academic misconduct reported to them must initiate an investigation and meet with the accused student within five days of becoming aware of the incident. A faculty member who is made aware by another person of an act of academic misconduct has the responsibility to investigate the allegation, and, if warranted, pursue the issue as outlined below (C.1).
- iii. In instances where the suspected academic misconduct is discovered during an academic exercise, the faculty member has the right to suspend immediately the student involved in the alleged activity from further work on the academic exercise.
- iiii. A student, once accused of academic misconduct, will proceed in the course without restriction until resolution of the issue or until the academic dean has taken an action (as specified in III.B) that removes the student from the course.
- iiiii. An "I" grade should be given by the instructor if the alleged misconduct occurs near the end of a semester (e.g., during finals), and a sanction outlined in Section III has not been applied by the instructor or the dean.
- iiiii. If more than one student is accused of the same act of misconduct (e.g., giving and receiving aid), each individual student is guaranteed the right to have the cases heard separately. With each student's permission, the cases can be combined. The faculty/student conference (C.1) is expected from this requirement.

c. Resolution

- i. **Meeting Between Faculty Member and Student.** This is the first step to be taken in resolving an incident of suspected academic misconduct.
 1. Within five days of suspecting misconduct, the faculty member will hold a meeting with the student. At this meeting, the faculty member will inform the student of all allegations against him or her and present any information supporting the allegations.
 2. The student will be given the opportunity to respond to the allegations. The student has the right not to respond.
 3. The faculty member will decide whether or not academic misconduct has occurred, and, if warranted, apply any combination of sanctions in III.A below, or refer the matter to the dean for more severe sanctions.

(probation, suspension or expulsion). Findings of academic misconduct are based on the preponderance of the evidence.

4. The faculty member will notify the student in writing of his or her decision and may send copies to the academic dean, the dean of the college in which the student is enrolled, the department chair and the dean of campus life. Any such copies of the findings will be kept on file in the college and department offices and in the student discipline files maintained by the dean of campus life.
- ii. **Meeting with Department Chair.** This meeting takes place when the student wishes to appeal either the findings of the faculty member or the severity of the sanction(s).
1. Within five days of being notified by the faculty member of the disposition of the incident of academic misconduct, the student may request a meeting with the department chair.
 2. The department chair will become acquainted with the facts and meet with the parties involved in the case. The student has the right to meet with the department chair without the faculty member being present.
 3. The department chair may either support or reverse the findings of the faculty member, and may lessen the sanctions imposed by the faculty member even while supporting its findings. The chair may not increase the severity of the sanction(s).
 4. The department chair will notify the student and faculty member of his or her decision in writing and may send copies to the faculty member, the academic dean and the dean of campus life. Any such copies of the findings will be kept on file in the college and department offices and in the student discipline files maintained by the dean of campus life.
- iii. **Meeting with Academic Dean.** This meeting takes place if the student wishes to appeal either the findings of the department chair or the severity of the sanction(s), if the faculty member recommends sanctions in addition to those listed in III.A.3 and 4, or if the student has been found guilty of academic misconduct previously.
1. Within five days of being notified by the chair of the disposition of the incident of academic misconduct, the student may request a meeting with the academic dean.
 2. The academic dean will hear the facts of the case and make a decision about the alleged act of academic misconduct or the appropriateness of the sanctions administered by the faculty member. The academic dean can issue any combination of sanctions listed in Section III.
 3. The academic dean will notify the student of his or her decision in writing with copies to the department chair and the faculty member. Copies of the findings will be kept on file in the college office and may be sent to the dean of campus life.
- iii. **Academic Appeals Committee.** Should the student wish to appeal the decision of the academic dean, he or she has the right to request a hearing before the Academic Appeals Committee.
1. The student must request this hearing by submitting an appeal letter to the chair of the University Academic Appeals Committee no later than five days from the date of receiving written notification of the dean's findings.
 2. Upon receipt of the appeal letter, the chair of the Academic Appeals Committee may request materials from the student, the faculty member, the department chair and/or the dean.
 3. The appealing student has the right to appear before the Academic Appeals Committee. The student may bring one person with him or her as an adviser. The adviser may not speak for the student or to the committee. The adviser may only speak with the student. The student must inform the University five

class days in advance if his or her adviser is an attorney in order for the University to also have an attorney present. Each party shall bear the expense of his/her legal counsel. Legal counsel is to provide counsel only and may not participate directly in the meeting. The meeting is an administrative hearing, not a court proceeding, and is not subject to the procedures or practices of a court of law.

3. Sanctions

a. By the Faculty Member

- i. Grant no credit for the examination or assignment in question (treat as a missed assignment).
- ii. Assign a grade of "F" (or a zero) for the examination or assignment in question.
- iii. Recommend to the academic dean that the student be dropped immediately from the course with a grade of "F."
- iiii. Recommend to the academic dean that the student be placed on probation, suspended or expelled from the University.

b. By the Academic Dean or Academic Appeals Committee

(Previous academic misconduct will be taken into account when either the academic dean or the Academic Appeals Committee considers sanctions for academic misconduct.)

- i. Apply sanctions in III.A.
- ii. Drop student from the course with a grade of "F." This grade cannot be changed by student-initiated withdrawal, and the grade will be included in GPA computation even if the course is repeated.
- iii. Place the student on disciplinary probation at the University for a specified period of time.
- iiii. Place the student on suspension from the University for a specified period of time.
- iiiii. Expel the student from the University.
- iiiii. In a case where the academic dean as defined above is not the dean of the school/college in which the student is enrolled, he/she shall recommend to the vice chancellor for academic affairs that the student be placed on probation, suspended or expelled.

Grade Appeals

In the event a student questions the appropriateness of a grade assigned for a course or the results of another critical component of a degree requirement (e.g., oral exam, juried exhibition, thesis, etc.), the student must first discuss the matter with the faculty member(s). These discussions between the faculty member and student should be initiated by the student as soon as possible after the grade is assigned, but no later than five academic days into the next long semester. The faculty member is expected to respond within five academic days of the initiation. If there is no response from the faculty member, the student may present the issue directly to the department chair. In the event that the faculty member(s) agrees to change the grade/decision, the normal process for changing a grade shall be followed. If the student wishes to appeal the faculty's decision after these discussions, he/she must follow the formal grade appeals process outlined below.

Note: An academic day is defined as a school day on which TCU classes are meeting. Initiation of the discussion is any attempt to contact the faculty of record, or chair of examination committee in the case of a candidacy exam or thesis/dissertation defense, about the grade. This includes email or other written correspondence (recommended), personal meeting, and telephone call or message.

Formal Grade Appeal

Appeal to the Department Chair or Appropriate Administrator

The student may appeal the faculty decision **in writing** to the department chair/appropriate administrator within 15 academic days of the first day of the next long semester if a satisfactory resolution is not reached in the initial discussion with the faculty (see exceptions in this appeal level). Exceptions to deadlines set forth herein for students in unusual circumstances (e.g., studying abroad) may be granted **in**

writing by the dean of the college/school in which the course (or critical component) was offered. An exception may also be granted by the provost/vice chancellor for academic affairs.

The department chair/appropriate administrator will become familiar with the facts of the case by communicating with the student and the faculty member(s). The parties have a right to meet with the chair without the other party present. The faculty member or examination committee chair will respond **in writing** to the department chair concerning the student's appeal.

The department chair/appropriate administrator may either accept or deny the student's appeal. The chair will notify the student and faculty member(s) of his/her decision **in writing** within 10 academic days of receiving the appeal. In the event that the department chair accepts the student's appeal and no further appeals occur, he/she will initiate a grade change through the dean of the college.

Exceptions: If the department chair is involved in the appeal as the faculty member (one of the faculty members), the chair of the department advisory committee will assume the department's role in the appeal process. If the department does not have a department advisory committee, the chair of the school/college advisory committee will assume the department chair's role in the appeal process.

Appeal to the Academic Dean

The chair's position may be appealed **in writing** by the student or faculty member(s) to the appropriate dean within 10 academic days of the department chair's decision (see exceptions in this appeal level).

The dean will become familiar with the facts of the case by reading the prior appeal documents and communicating with the student, faculty member(s) and department chair. The parties have the right to meet with the dean without the other party present.

The academic dean will notify the student, faculty member(s) and department chair of his/her decision **in writing** within 10 academic days of receiving the appeal. In the event the dean upholds the student's appeal and no further appeals occur, the change of grade shall be reported by the dean to the registrar's office.

Exceptions: If the dean of the college/school is involved in the appeal as the faculty member, the appropriate associate dean will assume the dean's role in the appeal process.

Appeal to the Academic Appeals Committee

The dean's decision may be appealed **in writing** by the student, faculty member(s) or department chair to the Academic Appeals Committee within 10 academic days of the dean's decision.

The appeal by the student, faculty member(s) or department chair will be sent to the Academic Appeals Committee chair **in writing**. The material corresponding to the appeal should include a letter to the committee discussing the reason for the appeal and all pertinent documents that support the appeal. When the appeal is received, the committee chair will ask the appropriate dean for all written documents pertaining to the appeal. Once the chair receives the documents, they will be distributed to the appropriate committee members for review. During the review of the material, the chair may request other documents pertaining to the appeal. The chair will set a date for a hearing that will include the appropriate committee members, the student and faculty member(s). The chair will request that the dean or a designee be present to represent the college/school.

At the scheduled hearing, all parties will have an opportunity to discuss their case, and committee members will ask questions to better understand the appeal.

The committee will confer and come to a decision on whether to support the appeal or not. All parties will be notified **in writing** of the committee's decision within 10 academic days of the hearing. In the event the committee upholds the student's appeal and no further appeals occur, the chair will advise the appropriate dean to report the change of grade to the registrar's office.

The student, faculty member(s) or department chair may appeal the committee's decision to the University provost **in writing** within 10 academic days of the committee's decision.

All questions pertaining to the appeals policy and procedures should be addressed to the chair of the Academic Appeals Committee or the Office of the Provost.

Student Grievance Procedure

The University has established both informal and formal procedures that 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.

Academic Services

Mary Couts Burnett Library

The Mary Couts Burnett Library provides intellectual tools, innovative technology and an inspiring physical and virtual space, all supported by approachable and resourceful staff, to serve TCU's diverse community of learners. Students and faculty have access to more than 95,000 unique journal titles and more than 1.9 million books, CDs, DVDs, videos and other items housed in the Library and the Library Annex off-site in addition to a wealth of online works available through the Library's website, <http://library.tcu.edu>.

Materials are arranged by the Library of Congress system in open stacks for convenient access. Librarians and staff select, maintain and interpret the collections for library users. A music/media library and the Brite Divinity School library are also located in the Mary Couts Burnett Library, as are particular collections, including U.S. documents; the archives of the Van Cliburn International Piano Competition; the papers of former Speaker of the House Jim Wright; the papers of Amon G. Carter, Sr.; the Luxembourg collection; the University's historical collection and digital archives; and special collections of rare books and manuscripts, such as the William Luther Lewis Collection of English and American Literature.

Research librarians can be contacted in person, by phone, by email or by text messaging as outlined at <https://library.tcu.edu/askalibrarian.asp>. The research librarians regularly conduct instruction on the library's resources and will schedule individual consultation for more in-depth assistance.

A TCU student may borrow up to 50 books or government documents for 28 days and renew them for two additional 28-day periods. Up to 10 DVD and VHS items may be checked out for seven days. Up to 10 CDs may be checked out for 14 days. Audio and video listening and viewing stations are available, and a 14-seat screening room may be reserved through the Library's website, <http://library.tcu.edu>.

Library materials that show up in the Library's online catalog as held at the Library Annex can be requested for retrieval. If these items are requested Sunday through Thursday they will be available within 24 hours. Items requested Friday and Saturday are made available on Monday. Upon return, an email notification is sent indicating the items are available at Library Services and will be held 10 days for pick-up. After 10 days the items go back to the Library Annex.

The library is open around the clock five days a week and provides different environments for studying, including group study rooms and quiet zones. The Library and Rees-Jones Hall offer group study rooms of various sizes that may be reserved for up to three hours through <http://library.tcu.edu>. The rooms have large wall monitors that can be controlled wirelessly from laptop computers and other portable devices.

Through active membership in local, regional and national library consortia, the library offers the advantages that come with resource sharing. The University's membership in TexShare enables TCU faculty and students to obtain borrowing privileges from more than 150 academic libraries throughout Texas.

A computer lab in the library features both Windows and Macintosh machines, some equipped with scanners and software for multimedia projects. Several high-speed black-and-white and color laser printers also are available. Wireless laptops can be checked out for three hours. The fall 2015 renovation includes a small high-performance computing lab, audio-video editing rooms, and a fabrication lab with a plotter and 3D printers.

Center for Instructional Services (Instructional Technology)

The successful integration of instructional technology into the teaching and learning environment is essential in today's classroom. The mission of the Center for Instructional Services is to provide Texas Christian University with a variety of cost-effective solutions in the appropriate integration and utilization of instructional technologies in a diverse academic environment.

- Classroom Instructional Technology Services provides assistance to faculty in the operation of classroom technology. Our focus includes the design, installation and maintenance of classroom technology equipment as well as providing equipment for checkout. Training and orientation in the proper utilization of classroom technology systems is available.
- Media Production Services provides a diverse range of services in video, audio, graphic, photographic and digital production formats to facilitate the effective use of multimedia. Assistance is provided in the planning, design and production of professional presentation materials for academic use.

The Center for Instructional Services is located between the Tucker Technology Center and Annie Richardson Bass Building on Bowie Street. For more information, refer to the center's website, www.cis.tcu.edu, or call 817.257.7121.

Information Technology

The central computing facility, located on the ground floor of the Sid W. Richardson Sciences Building, provides network connectivity throughout the campus and computer services and support for all levels of the University.

Using various client servers, Information Technology 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 Technology staff is available through the TCU Information Commons Desk (817.257.5855). Services provided include consultation and assistance with computer problems. A newsletter (TCUSER) providing information about new services, products and support activities is published each semester. In addition, a wide selection of training materials for campus-supported software also is available. The Information Services administrative office is located in SWR Room 175, 817.257.7682.

The William L. Adams Center for Writing

The Center for Writing offers assistance with writing projects and assignments to all TCU students. Staffed by professional writing instructors and peer consultants, the Center for Writing provides students with one-on-one tutorials free of charge. Conferences usually focus on a particular project or assignment but may also include general writing instruction.

The 10 PCs in the center's computer lab are available for the use of any TCU student during normal office hours and provide email and Internet access.

Located in Suite 419 of Reed Hall, the Center for Writing is open Monday-Friday, 8 a.m.-5 p.m. Students may make an appointment by accessing an online scheduling service through the center's website, www.wrt.tcu.edu, or by calling 817.257.7221. Those who wish to submit a paper online may do so via the center's website. A consultant will read the paper and offer feedback within two working days.

William H. Koehler Center for Instruction, Innovation, and Engagement

Mission Statement

The Koehler Center is dedicated to facilitating ongoing, reflective discourse regarding teaching and learning, including working with faculty and teaching staff to help them design and implement meaningful learning opportunities for their students.

Vision

The William H. Koehler Center for Instruction, Innovation, and Engagement supports teaching and learning at Texas Christian

University. The resources and activities of the Koehler Center are focused on responding to the present needs of instructors, as well as on keeping the TCU community informed of new educational possibilities created by the continuing development of pedagogical theories, teaching practices, and technologies.

Confidentiality Statement

The Koehler Center maintains the confidentiality of the individual faculty or groups of faculty with whom we work, mindful that our faculty voluntarily engage our services in order to enhance and enrich teaching and learning at TCU.

The Koehler Center for Instruction, Innovation, and Engagement is located in the Sid Richardson Building, Suite 501, located between Tucker Technology Center and Winton Scott Building on Bowie Street. For more information, refer to the center's website at www.cte.tcu.edu or call 817.257.7434.

IdeaFactory

The TCU IdeaFactory is a unit of the School of Interdisciplinary Studies dedicated to supporting the entrepreneurial spirit of TCU students, staff and faculty by providing an environment and resources where an idea can be advanced to a prototype, and potentially, beyond. The IdeaFactory mission is dedicated to "Supporting the innovative and creative spirit of TCU."

Research Support

TCU is committed to creating a campus environment that supports and promotes superior research, premier creative activities and innovative scholarly pursuits.

The associate provost for academic affairs and the Office of Sponsored Programs are dedicated to helping University faculty, staff and students continue building TCU's reputation as a nationally recognized scholarly institution.

The **Graduate Student Travel Grant Program** - supports travel of graduate students related to research. Funds may be used by graduate students to make presentations at professional meetings or to conduct research related to their field of study. Grants are not made for attendance at a conference where the student is not presenting scholarly results. Information and application are available at www.research.tcu.edu.

Student Affairs Services

Brown-Lupton University Union

The Brown-Lupton University Union (BLUU) is at the heart of the Campus Commons. Entertainment, educational and conference events take place in the Union throughout the year. The BLUU is home to 14 meeting rooms, the Horned Frog Ballroom, a 300-seat auditorium, the TCU Post Office, the Spirit Store and food service venues-Market Square, Chick-Fil-A @ 1873 and Union Grounds Coffee Shop. The Union also houses the Heritage Center, a student activities area, and the Governance Chamber. The Information Desk, located within the Heritage Center, offers notary service, campus printing station, a campus lost and found and other support functions. For more information, call 817.257.7927.

Campus Recreation & Wellness Promotion

The Department of Campus Recreation & Wellness Promotion encourages lifelong wellness through holistic education and quality recreation and wellness programs, services and facilities that enhance the university experience through participation and leadership. It is the vision of the department to be a cornerstone of the University experience that positively engages every member of the TCU community in promoting healthy lifestyles.

The 232,000 square-foot facility provides for a variety of recreational opportunities, including swimming, basketball, volleyball, badminton, weightlifting, an indoor track for walking and jogging, cardiovascular training equipment, a games area, a climbing wall, computer access and food service.

The Wellness Education office offers primary prevention programming through collaboration with the University community. Programs and services provided include suicide prevention, sleep hygiene instruction, stress management workshops and healthy relationship training. Peer educators aid in the delivery of information.

The Aquatics Program offers instructional and fitness activities in the water, in addition to recreational swimming. Three pools grace the University Recreation Center: a 25-yard lap pool, a 22-foot-deep diving well and an outdoor leisure pool and patio.

Structured, competitive and recreational sporting events are scheduled throughout the academic year in the Intramural Sports Program. Activities involve team sports, individual or dual events and special events. Only currently enrolled TCU students and faculty/staff may participate in the Intramural Sports Program.

In addition to the Group Exercise Program, the Fitness Program offers personal training, massage therapy and fitness assessments. Group exercise classes are designed for beginner, intermediate and advanced levels.

The Climbing Wall is sure to provide an exciting outlet, whether you are entirely new to climbing, have been climbing for years, or are just looking for a challenging addition to your workout regime. We offer instruction and supervision on the 30-foot wall, with more than 20 top rope routes and a variety of bouldering routes. All climbing equipment, including shoes, harnesses, ATCs and carabineers, are available at the wall for free.

The Sport Clubs Program is designed to serve individual interests in different sport and recreational activities. Membership is open to all students and the club must be a recognized student organization. These interests can be competitive, recreational or instructional in nature, as clubs may represent TCU in intercollegiate competition or conduct intra-club activities, such as practice, instruction, social activities and tournament play.

Memberships

TCU faculty and staff must purchase membership to have access to the University Recreation Center. Cost is \$120 for an annual membership and may be paid through payroll deduction. Memberships are also available for purchase for spouse/partners, dependents and children of

Faculty/Staff. For more information about any of the programs offered by the Department of Campus Recreation call 817.257.PLAY.

Counseling and Mental Health Center

Our mission is to provide quality treatment and recovery services that contributes to the academic success and personal growth of TCU students. Licensed mental health professionals provide a variety of goal-directed, confidential, evidence-based interventions that help students cope with mental health concerns, and grow in self-confidence. The Counseling and Mental Health Center provides:

- Daily Drop-in Clinic for first-time visits
- Peer Support Communities to address common student concerns
- Goal-oriented individual and group therapy
- "Let's Talk" drop-in consultation at various campus locations
- 24/7 Phone Counseling Helpline (817) 257-7233
- Crisis Intervention and Response
- Referral Assistance Services to off-campus providers for longer-term, or specialty care needs
- Consultation for those concerned about the welfare of a student
- Educational programs for students, faculty, and staff on mental health and sexual assault prevention and stigma reduction

The Counseling and Mental Health Center is located in Jarvis Hall, Suite 232. Hours during the academic year are Monday, Tuesday and Wednesday 8 a.m.-8 p.m. and Thursday and Friday 8 a.m.-5 p.m. Summer hours are 8:00 a.m. - 5:00 p.m. To eliminate waiting for a first appointment, all first-time visits are 30-minute phone sessions, which are offered every day from 10 a.m. - 11:30 a.m. and 1-3 p.m. If your schedule does not allow these hours, call the office to arrange a first appointment. See counseling.tcu.edu for more information.

Health Center

The Brown-Lupton Health Center is located just north of the University Union. This AAAHC - accredited facility is staffed by board-certified physicians, physician assistants, with one specializing in women's health, and a professional nursing staff of LVN's and RN's. The Health Center provides ambulatory medical care for the various needs of TCU students. Appointments must be scheduled in advance. During the academic year, hours are 8 a.m. - 5 p.m. Monday through Friday.

The TCU - Pharmacy, an independently owned pharmacy offering competitively priced prescriptions and over-the-counter medications, is conveniently located within the Health Center. The pharmacy accepts most insurance plans. Co-pays and medication costs can be billed to the student's University account or paid for by cash or check at the time the prescription is filled. The Health Center is also staffed by a psychiatrist nurse practitioner. Appointments must be scheduled in advance.

International Services

International Services, located in the Intercultural Center, generates opportunities for engagement across the campus and community. International Services works within the area of Multicultural and International Services in Student Affairs by generating opportunities for engagement across the campus and community. As one of the primary offices tasked with internationalization, International Services provides programs focusing on geographical, political and cultural diversity as well as cross cultural engagement. The office has primary responsibility for immigration law and the integration of international students into the day-to-day experience of TCU's culture.

Through programs like International Orientation, Global Ex, International Fellows, Questa Terra and F-1 Sharp, the office explores cultural transition, intercultural engagement and academic success. The office also works directly with international alumni to keep them involved in the international programming and institutional direction of the

University. By engaging TCU students, both U.S. and international, with international former students around the world, we also contribute to TCU's mission to create "ethical leaders in the global community."

With approximately 600 international students, a global international alumni network, partnerships and collaborations with communities and organizations around the world. International Services is committed to an inclusive idea of access, education and opportunity for everyone.

Student Veteran Services

Veterans Services is committed to supporting military connected students as they transition to campus life and assist in their progress toward completing their academic degree.

Veterans Services serves as a liaison to various university services for information regarding academic advising, counseling, disability accommodations, veteran programming, benefit information, financial aid, and facilitates referrals to state and federal resources and services.

With the support of the TCU Veterans Task Force, this department coordinates various celebratory and recognition ceremonies for the military connected population.

Office of Religious and Spiritual Life

The Office of Religious and Spiritual Life (RSL) offers resources, programs and staff dedicated to supporting faith communities, religious expression and spiritual exploration. The University is affiliated with the Christian Church (Disciples of Christ), a denomination that values "true community, deep spirituality and a passion for justice". To that end, RSL is committed to respecting the dignity and beliefs of every individual, celebrating diversity and welcoming all of God's people. RSL supports a vibrant religious life and serves students' spiritual needs while creating opportunities for reflection and learning.

Located on the first floor of Jarvis Hall, RSL is home to staff offices, a multi-faith prayer room and the RSL Library and Resource Center. Also, as a long-standing part of TCU, Robert Carr Chapel is open daily for prayer and personal reflection, and is available by reservation for worship, concerts, events, ceremonies, weddings and other important occasions. In addition to TCU's chaplains who serve the entire campus, students will also find a variety of campus ministers and religious life partners who offer support, connection and pastoral care out of their own tradition.

Center for Career and Professional Development

Career Exploration and Job Search Advising

The Center for Career and Professional Development plays a crucial role in preparing students for life after college and in helping alumni through career transitions. From exploring possible fields to preparing for interviews, landing internships or launching a career, the career center is a partner in today's competitive job market. The following are just a few of the services available at no charge to students and alumni.

- Career assessments
- Career advising
- Resume and cover letter assistance
- Interview Coaching and Practice
- Job search assistance
- Job and internship listings on FrogJobs
- On-campus interviewing
- Professional events and career fairs
- www.careers.tcu.edu, career resources, information on the Intern Scholarship Program and FrogJobs, and social media links to keep you up to date on events.

The BNSF Railway Career Center is located in The Harrison, First Floor and is open 8 a.m.-5 p.m. Monday-Friday. The Alcon Career Center, for Neeley School of Business students, is in Sumner Hal 2211, same hours.

For additional information or to schedule an appointment to meet with an adviser, call 817.257.2222 or email careers@tcu.edu.

Campus ID Card

The TCU ID card is a student's access key to many University resources. It is permanent and may be used as long as the student is enrolled at TCU. The card is the property of TCU and is non-transferable. If at any time students have questions or problems with their ID card, visit www.idcenter.tcu.edu, contact the ID Card Center in Brown-Lupton University Union at 817.257.7856 or email IDCenter@tcu.edu.

The TCU ID card has the cardholder's photo and TCU ID number, with a magnetic strip 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 server for verification. The system then transmits whether the card is valid and the transaction is accepted. Students use their ID cards to access dining funds, residence halls and athletic events. ID cards may also be used to charge concessions at athletic events, items from vending machines, purchases at the bookstore, photocopies in the library and Frog Prints Printing Services, computer printouts from the Information Commons and other public computers across campus. It is also used to verify identity if requested by a TCU official.

Card owners are responsible for reporting lost or stolen cards promptly to ensure that no one else uses your card. Card owners can deactivate a lost or stolen card online. Simply log into my.tcu.edu, click on "Helpful Links" click on "Frog Bucks" and log in. Students can reactivate a found card at the same location. Lost or stolen cards may also be reported to the ID Card Center in the Brown-Lupton University Union, Room 2033, 817.257.7856, or TCU Police 817.257.7777. Until a card is reported lost or stolen you are responsible for any card purchases. Card-holders may replace lost or damaged cards at the ID Center during normal business hours. TCU police can print a replacement ID after hours or on weekends. There is a replacement charge of \$20 for a lost or stolen card.

The ID card remains the property of TCU at all times, and any misuse of the card could result in loss of privileges or disciplinary action. ID cards should be in a student's possession at all times and must be shown upon request of any University official.

TCU Public Safety

The overarching mission of TCU is to educate individuals to think and act as ethical leaders and responsible global citizens in a global society. Critical to teaching and learning is the safety and security of our campus community. TCU Public Safety, comprised of the Police Department, Office of Emergency Management, Parking and Transportation, are collectively responsible for developing services, programs and strategies for maintaining a safe campus.

Police Department

The TCU Police Department (TCU PD) is committed to providing a safe learning environment for students, faculty, staff and visitors to the campus, through the mutual respect and shared responsibility of community policing. Our police officers are commissioned, by authority of the State of Texas and TCU's Board of Trustees, to provide police service to property owned or controlled by the University. TCU Police and civilian security guards, are in service 24 hours a day, seven days a week, and the TCU Police dispatcher can be contacted at 817.257.7777. The office is located at 3025 Lubbock Ave.

The TCU PD maintains a social media Twitter and Instagram accounts, posts a daily crime log, and produces an Annual Security and Fire Safety Report. The crime log and annual report may be found on the TCU police website (www.police.tcu.edu) and are also available at the TCU Police Department.

All firearms and dangerous weapons are prohibited on campus. TCU has complied with the statutory requirements of Section 411.2031 of the Texas Government Code and the TCU Board of Trustees, voted to prohibit license holders from carrying concealed handguns on any campus grounds or building on which an activity sponsored by TCU is being conducted, and in any passenger transportation vehicle owned by TCU.

The only exceptions are that students, faculty and staff may bring unloaded firearms, other weapons and ammunition directly to the TCU Police Department to be checked in and stored in a locked gun vault. Texas law does permit a person to store a concealed firearm in a locked, privately owned or leased motor vehicle parked on a street or driveway or in a TCU parking lot or parking garage.

Frog Shield

The TCU Police Department recently launched a safety application that uses geo-fencing and the nation's first Indoor Positioning System (IPS) to send accurate locations and pertinent information about 9-1-1 callers directly to TCU police. Users can also send anonymous safety reports and concerns while attaching photos and videos. Other functions include a Friend Watch links to campus safety resources and services. The application is provided at no cost to all TCU community members and guests. More information can be found at www.police.tcu.edu/frogshield or by calling (817) 257-7933.

L.E.S.S. is More

Students learn more, faculty teach more effectively and staff perform their duties more proficiently when they feel safe. To create the peace of mind that comes with feeling safe, the TCU Police Department participates in public safety drills in all campus buildings with the assistance of community members designated as trained in three emergency responses - Lockdown, Evacuate and Seek Shelter, or L.E.S.S. is More (<https://publicsafety.tcu.edu/less-is-more/>)

Crime Prevention

Crime prevention and other services are offered by the TCU Police Department and the Fort Worth Police Department's Community Service Office and include Active Shooter Training, Sexual Assault/Acquaintance Rape Prevention, Personal Awareness, 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, TCU Police Department is unable to provide vehicle unlocking services.) Crime prevention services can be requested by calling the non-emergency number for the police department at (817) 257-8400.

Froggie Five-O Student Escort Program

The TCU Police Department administers a safety escort program, Froggie Five-O. Froggie Five-O operates between the hours of 7 p.m. - 1 a.m. during the fall and spring semesters. Froggie Five-O provides safety escorts and uses student employees who escort students on foot or by golf carts to all areas of the campus. After 1 a.m., TCU police officers or security guards are available to escort students. Students may request a safety escort by calling Froggie Five-O during operation hours at (817) 257-5856 or the TCU Police at (817) 257-7777.

Lost and Found

The TCU Police Department 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.

Bicycle Regulations

Bicycle registration forms can be submitted online at www.police.tcu.edu and the registrant may come to the TCU Police Department to receive a bicycle permit. Forms may also be obtained at the TCU Police Department 3025 Lubbock Avenue.

Bicycle riders must adhere to all state and local laws. Pedestrians have the right of way.

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.

Office of Emergency Management

The Office of Emergency Management is responsible for creating the framework within which the Horned Frog community increases institutional disaster resilience. TCU Emergency management facilitates a comprehensive emergency management prevention, mitigation, preparedness, response and recovery.

Parking

All students, faculty and staff who operate a motor vehicle on University property must register that vehicle with the TCU Police Department and comply with the rules and regulations set forth. The annual registration

fees and the TCU Campus Parking Rules and Regulations can be found at www.police.tcu.edu.

Purchasing a parking permit does not guarantee a parking place nor does the lack of a parking space justify violation of any parking regulation. The fact that a citation is not issued when a vehicle is illegally parked does not mean or imply that the regulation or rule is no longer in effect.

Illegally parked vehicles may be ticketed, immobilized or towed by the TCU Police Department. The payment of traffic fines, of immobilization or towing charges does not entitle the violator to accrue an indefinite number of citations. 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, an independent wrecker operator will tow the vehicle 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.

The University does not assume any liability concerning the protection of the motor vehicle or any responsibility for proving special parking places near a building in which an employee works or a student's residence hall or class.

Neeley School of Business

The Neeley School of Business is fully accredited by the AACSB-International Association for Management Education and is a member of the Graduate Management Admissions Council (GMAC).

The school offers small class sizes and a dedicated, accessible faculty enabling students to fulfill their individual education needs.

Neeley School Professional Graduate Degrees

The Neeley School offers the following graduate degrees:

Master of Business Administration (MBA)

Master of Accounting (MAc)

Master of Science in Supply Chain Management (MS-SCM)

Master of Science in Business Analytics (MS-BA)

Neeley School Dual-Degree MBA

MBA/Ed.D. in Educational Leadership

MBA/Ph.D. in Educational Leadership

Neeley School Graduate Certificates

Analytics Certificate

Supply Chain Certificate

Ralph Lowe Energy Management Certificate

Ralph Lowe Sustainable Energy Management Certificate

Health Policy and Management Certificate

Neeley School Graduate Program Academic Policies

Transfer Credit

A student who, prior to entering the Neeley School, has completed a course that is the equivalent of a core course in the Neeley School MBA, MAc or MS degree plans may substitute an elective in the same functional area, with the permission of the assistant dean of graduate programs (MBA and MS students) or the director of the Masters of Accounting Program (MAc students). In order for such substitution to be approved, the course has to have been taken within three years of entering TCU and must have been completed at a graduate business school accredited by the AACSB or otherwise approved by Associate Dean of Graduate Programs. The substitution of a core course will not reduce the number of hours required to complete the MBA, MAc or MS degree. It is the student's responsibility to notify the Graduate Programs office or MAc director prior to the first term in the program.

A student who has completed, prior to enrollment at the Neeley School, graduate-level business courses that would qualify as electives at TCU may seek the approval of the associate dean of graduate programs or MAc director to transfer a maximum of 9 hours of such coursework. Such approval will only be granted if the courses were taken at an AACSB-accredited program no more than three years before entering TCU. These transfer credits (when approved) will reduce the number of hours required to complete the MBA, MAc or MS degree on a one-to-one basis. When a course is taken outside the Neeley School for which elective credit is sought, the course must be equivalent to a 60000-level course or higher.

A student currently seeking the TCU MBA, MAc or MS degree may, under extraordinary circumstances, request approval from the associate dean of graduate programs or MAc director to take a maximum of six hours outside the University.

Grading Procedures

The grading policy followed for all graduate business courses is based on the following scale:

Letter Grade	Grade Point Weight
A	4.00
A-	3.67
B+	3.33
B	3.00
B-	2.67
C+	2.33
C	2.00
C-	1.67
F	0.00

Academic Standards

All graduate students are required to meet the academic standards of the Neeley School faculty. Failure to do so will result in academic probation or academic suspension.

Graduate students must achieve a grade index of at least 2.75 each term and on a cumulative basis throughout their program. A student seeking the MBA, MAc or MS degree or a Graduate Certificate who does not meet this standard will be placed on probation for the subsequent term (excluding summer for full-time students). During this time, the student must achieve the minimum grade index (2.75) on both a semester and cumulative basis to be removed from probation. Failure to do so may result in dismissal from TCU (with the right of appeal to the associate dean for graduate programs in the Neeley School).

If a student in any of the Neeley School's graduate programs receives 3 hours of a grade of C+ or lower, the associate dean for graduate programs may place the student on probation because of a failure to make satisfactory academic progress.

A student placed on academic probation for one term may be dismissed if his/her term or cumulative grade index falls below a 2.75 in *any* subsequent term.

Dismissal, Suspension or Expulsion for Lack of Academic Progress or Honor Code Violations

MBA, MAc, MS, and Graduate Certificate students in the Neeley School must abide by the Honor Code. Students violating the Honor Code may be dismissed from individual courses with a grade of "F" for conduct deemed contrary to the professional or ethical standards of a field.

At such times as the student fails to meet acceptable standards of academic performance or has engaged in professional misconduct, the student may be dismissed, suspended or expelled from the university at the discretion of the Neeley School Associate Dean of Graduate Programs.

If a student is dismissed, suspended or expelled from the university, a grade of "F" or a designation of "Q" is recorded for each course in progress as determined by the appropriate academic dean.

Miscellaneous Academic Policies

Academic probation describes the status of a graduate student who is experiencing academic difficulties subject to the discretion of the associate dean of graduate programs. Academic dismissal describes the action taken by the Neeley School in the case where a student has failed to meet the minimum academic standards of the faculty. Dismissal from a Neeley School graduate program is permanent; a dismissed student is not permitted to enroll for graduate credit at a later date.

Other academic policies pertaining to graduate students:

Two GPAs are maintained by TCU:

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 GPA is computed by dividing the number of grade points (grade points 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). Grade replacement is not allowed for repeated courses. All grades will be included in the calculation of the graduate cumulative GPA.

Additional Notes

1. Grades for non-TCU transfer courses are *not* included in computing a graduate student's grade index.
2. No 50000-level course may be taken for credit at TCU by a graduate student unless approved by the associate dean of graduate programs.
3. All MBA students are required to complete the MBA Orientation or other designated orientation prior to commencing graduate studies. MAc and MS students are required to complete the relevant orientation for their program prior to beginning their graduate studies.
4. An MBA or MS student may enroll for a maximum of 3 hours of independent study credit in one department. (Typically, these courses carry the 70970 number.) No more than a total of 6 hours may be taken in independent study courses. MAc students may enroll for a maximum of 3 hours of credit (in total) in independent study courses. Graduate students on academic probation are not permitted to enroll in independent study courses.

Graduation Requirements

At the beginning of the term in which the student plans to graduate, he/she must submit an Intent to Graduate form to the Neeley School Graduate Programs Office or relevant program director. Graduation requires a minimum of 2.75 cumulative GPA. Students who do not have a 2.75 average after completing the program have a maximum of two terms to raise their average to this standard.

MBA and MS students are expected to complete all requirements within five years. MAc and Graduate Certificate students are expected to complete all requirements within two years. Extension of time must be applied for in writing to the associate dean of graduate programs or MAc program director. Additional courses may be assigned to students who do not complete the degree within the time limit.

MBA Programs

Neeley School MBA Admissions

The nature of the Neeley School MBA programs requires that a holistic approach be used in the admissions process. Not only must applicants demonstrate academic ability, but also the ability to perform in a highly interactive, team-based environment. Previous academic records, relevant test scores, professional work experience (where applicable), motivation, maturity and demonstrated leadership are all considered in the admissions decision.

Except under extraordinary circumstances, students applying to the MBA Program must have or expect to earn a bachelor's degree from an accredited college or university prior to enrollment.

Admission Application Checklist

An application to a Neeley School MBA program will not be considered by the Graduate Admissions Committee until all of the following materials are received:

1. Completed application form and essays
2. An official transcript from each college or university previously attended
3. Contact information for three professional references
4. Application fee of \$100
5. Official GMAT, GRE, or Executive Assessment score, unless waived. The test requirement is waived for CFA® Charter holders and for applicants to the Professional MBA, and Energy MBA programs who meet the criteria outlined below.
6. Official TOEFL scores (non-native English speakers only)
7. Personal interview (by invitation only)

Additional Admission Requirements for Accelerated MBA Programs

The Full-time, Professional, and Energy and focused Accelerated MBA Programs are available to individuals with professional experience and distinguished academic backgrounds in business, as evidenced by:

- completion, with a strong academic background, of the Bachelor of Business Administration (BBA) degree or equivalent from an AACSB-accredited business school
- minimum of three years of postgraduate professional work or military experience
- sufficiently high GMAT or GRE scores, unless this requirement is waived as outlined below.

Other exceptional indicators of success may also be taken into consideration.

GMAT Waiver Guidelines

A GMAT waiver may, at the discretion of the Graduate Admissions Committee, be granted for candidates for the Professional MBA, and Energy MBA and the accelerated versions of each who meet certain criteria, including:

- Earned a 3.0 (on a 4.0) scale undergraduate cumulative GPA or higher; and
- Evidence of quantitative/analytical skills (e.g. successful quantitative/analytical coursework, professional experience demonstrating quantitative/analytical skills, relevant training or certification); and
- Have meaningful post-baccalaureate work experience

OR

- Earned a terminal degree, the highest academic degree that can be awarded in a particular field (examples: JD, MD, Ph.D.)

OR

- Successfully completed a graduate-level for-credit certificate program through the Neeley School of Business

OR

- Earned a relevant professional certification such as a CPA

MBA Program Prerequisites

Students admitted to the MBA program must complete two pre-enrollment requirements prior to registering for their first term of graduate study:

1. Mathematical Skills Prerequisite
 - Entering students are expected to have an understanding of basic mathematics (i.e., basic algebraic operations, relations and functions, exponents, logarithms, sets and functions, linear equations, differentiation, integration, slope and extrema). This requirement is ordinarily satisfied by one of the following:
 - Satisfactory (C or better) completion of a 3-hour course in Introductory Applied Calculus or College Algebra or Mathematics with Emphasis on Business Applications; or
 - A score corresponding to or better than the 80th percentile on the quantitative portion of the GMAT; or
 - Satisfactory evidence of mathematical competence through a combination of courses taken in mathematics, statistics or economics prior to entering the program, and/or a makeup course that may be taken during the first term of the Neeley School MBA Program. (For specific details, contact the Neeley Graduate Programs Office.)
2. MBA Orientation
 - MBA orientation takes place on campus during the weeks before fall classes begin. Students receive instruction in teamwork and communication skills; a campus and degree program orientation; introductions to primary functional disciplines; and self-assessment exercises for career development. Students also meet their program cohort group.
 - Students are also required to complete online modules over the summer prior to enrollment. More information will be provided upon admission.

Neeley MBA Program Requirements

If a student in any of the MBA programs or the MS programs receives 6 hours of a grade of C+ or lower, the associate dean for graduate programs may dismiss him/her from the program for failure to make satisfactory academic progress.

Neeley MBA Program Options

Full-Time MBA

Program Length: 21 months

Full-time Accelerated MBA

Program length: 11 months

Professional MBA

Program Length: 24-28 months

Professional Accelerated MBA

Program Length: 18-21 months

MBA for Energy Professionals

Program Length: 24-28 months

Accelerated MBA for Energy Professionals

Program Length: 18-21 months

Executive MBA

Program Length: 18 Months

Applicants must designate at the time of application which program of study they are seeking. Admission to one program is not necessarily valid for another. Students will not be allowed to switch programs except under extraordinary circumstances.

MBA, Full Time

The Full-Time MBA Program follows a prescribed sequence over 21 months. Any variance from this sequence must be pre-approved by the associate dean of graduate programs. If such pre-approval is not obtained and a break in the sequence occurs, the student is subject to dismissal. Full-Time MBA students are required to complete a summer internship.

54 credit hours are required in this program.

ACCT 60010	Financial Reporting	1.5
ACCT 60020	Accounting for Managerial Planning and Control	1.5
BUSI 60050	Global Environment of Business	1.5
BUSI 66100	Career Management and Professional Development	1.5
BUSI 60070	Business Simulation	1.5
ENTR 60230	Regulatory Environment for Entrepreneurs and Managers	1.5
FINA 60020	Managerial Economics	1.5
FINA 60010	Financial Management I	1.5
INSC 60010	Statistical Models	1.5
INSC 60020	Managing Operations and Processes	1.5
INSC 60600	Concepts in Supply Chain Management	1.5
MANA 60330	Engaging People	1.5
MANA 60340	Leading Teams and Orgs	1.5
MANA 60630	Strategic Management	1.5
MANA 60460	Business Ethics	1.5
MARK 60010	Marketing Management	1.5

Electives: 30 credit hours

Students should also complete an approved concentration in their elective credit hours. The director of graduate academic programs will maintain lists of approved concentrations and the requirements for each.

MBA, Full-Time Accelerated

The Accelerated MBA Program is an 11-month, full-time option designed for individuals with significant professional experience and a distinguished academic background in business or engineering. The Accelerated MBA Program is designed to build upon the business

foundation and experience of individuals who are not seeking a significant career pivot.

Students in the Accelerated MBA Program pursue a fast-paced, individually tailored curriculum that complements their own unique business background. The curriculum includes a subset of the core courses offered in TCU's traditional MBA Program, plus electives that are selected to augment the student's prior professional and academic credentials. It comprises:

36 credit hours of graduate level business courses

22.5 credit hours of graduate business electives

13.5 credit hours of specified core MBA classes, some of which are specifically designed for accelerated students:

BUSI 60050	Global Environment of Business	1.5
BUSI 60070	Business Simulation	1.5
BUSI 66100	Career Management and Professional Development	1.5
ENTR 60230	Regulatory Environment for Entrepreneurs and Managers	1.5
FINA 60011	Finance Fundamentals	1
FINA 60020	Managerial Economics	1.5
INSC 60011	Supply Chain Management Fundamentals	1
MANA 60630	Strategic Management	1.5
MANA 60460	Business Ethics	1.5
MARK 60011	Marketing Fundamentals	1

MBA, Professional (Evening)

This program is available In-Person and in a remote synchronous format.

A total of 42 credit hours are required in this program.

ACCT 60010	Financial Reporting	1.5
ACCT 60020	Accounting for Managerial Planning and Control	1.5
BUSI 60050	Global Environment of Business	1.5
BUSI 60070	Business Simulation	1.5
ENTR 60230	Regulatory Environment for Entrepreneurs and Managers	1.5
FINA 60020	Managerial Economics	1.5
FINA 60013	Management of Financial Resources	3
INSC 60010	Statistical Models	1.5
INSC 60020	Managing Operations and Processes	1.5
INSC 60040	Managing Information Technology	1.5
INSC 60050	Business Analytics	1.5
INSC 60600	Concepts in Supply Chain Management	1.5
MANA 60350	Essentials of Motivation	1.5
MANA 60670	Strategy Formulation	1.5
MANA 60680	Strategy Implementation	1.5
MANA 60460	Business Ethics	1.5
MARK 60010	Marketing Management	1.5

Electives: 15 credit hours

MBA, Professional Accelerated (Evening)

Course sequencing might vary for students entering the program in Spring.

36 credit hours are required in this program, including the following core courses:

BUSI 60050	Global Environment of Business	1.5
BUSI 60070	Business Simulation	1.5
ENTR 60230	Regulatory Environment for Entrepreneurs and Managers	1.5
FINA 60011	Finance Fundamentals	1
FINA 60020	Managerial Economics	1.5
INSC 60011	Supply Chain Management Fundamentals	1
INSC 60050	Business Analytics	1.5
MANA 60460	Business Ethics	1.5
MANA 60670	Strategy Formulation	1.5
MANA 60680	Strategy Implementation	1.5
MARK 60011	Marketing Fundamentals	1

Electives: 21 credit hours

MBA, Energy Professionals

This program provides coverage of both general business concepts and tools as well as industry specific practices and issues for working professionals in the energy industry. The main program components consist of 25.5 credit hours in core MBA courses, 6 credits in core energy classes, 6 credits in energy and general business elective courses, and 4.5 hours in capstone energy courses. Capstone courses include an international experience and Energy CEO Forum class.

The MBA for Energy Professionals is a 42 hour program. With one exception, the 25.5 hour core is identical to that of the Professional MBA Program.

The remaining 16.5 hours are:

BUSI 70970	Special Problems – Energy in the 21st Century	1.5
FINA 70610	Energy Macroeconomics	1.5
FINA 70620	Energy Corporate Finance	1.5
MANA 70650	Energy CEO Forum	1.5
MANA 70663	Global Experiences - Energy	3
MANA 70790	Energy Integrated Field Study	1.5
	Electives	6

MBA, Energy Professionals Accelerated

For the accelerated version of the MBA for Energy professionals program, 36 credit hours are required, including 13.5 hours of core courses required in the Professional Accelerated MBA Program with one exception. In addition, students will take the 13.5 hours of energy-related courses included in the non-accelerated MBA for Energy Professionals program, plus 7.5 additional elective hours.

MBA, Executive

The Executive MBA Program is an 18-month accredited MBA focused on developing agile, strategic business leaders. The program is designed for experienced executives, high-potential managers and business owners who wish to strengthen their leadership skills and business knowledge to enhance their job performance and advance their careers.

The *In-Residence Seminar*, a three-day orientation in mid-August, marks the beginning of the Executive MBA program. The seminar is designed to prepare students for success in their coursework, both as individuals and as team members, and provides tools to improve teamwork and leadership skills.

Course content is delivered across all business areas and emphasizes how to improve decision-making using both quantitative and qualitative data. Faculty from the business disciplines engage students in case analysis and discussion, problem solving, applied research projects, simulated decision-making, and a two-week study abroad experience. An interactive classroom environment gives students the opportunity to learn from experienced classmates across multiple industries.

Each student’s personalized leadership development process includes an assessment of learning agility, which is the primary predictor for success in executive leaders. As well, a 360° survey solicits feedback from the student’s management, peers and direct reports. Students use this qualitative and quantitative data to shape a personal leadership development plan in partnership with their assigned executive coach.

Classes meet all day Friday and Saturday on alternate weekends for a period of approximately 18 months, beginning in August.

ACCT 65013	Financial Reporting and Analysis	3
ACCT 65023	Accounting for Managerial Planning and Control	3
BUSI 65103	Personal Leadership Development Process	3
BUSI 75970	Special Problems in Business	1.5-4
BUSI 75974	Managing in a Global Business Environment	4
ENTR 65023	Regulatory Environment for Entrepreneurs and Executives	3
ENTR 75980	Entrepreneurship	1.5
ENTR 75990	Innovation	1.5
FINA 65013	Management of Financial Resources	3
FINA 65000	Economic Environment of Business	1.5
FINA 75543	Advanced Financial Management	3
INSC 65013	Business Analytics for Managerial Decisions	3
INSC 75663	Supply Chain and Operational Strategy	3
MANA 65000	Strategic Vision and Analysis	1.5
MANA 65063	Strategy in a Dynamic Environment	3
MANA 65160	Leadership in a Complex World	1.5
MANA 65260	Leading for Innovation and Results	1.5
MANA 65460	Ethical Business Decision Making	1.5
MANA 75613	Negotiations	3
MANA 75980	Managing & Leading People	1.5
MARK 65013	Advanced Marketing Management	3

BUSI 75974 includes two-week study abroad

Dual-Degree MBA Programs Educational Leadership, MBA/Ed.D.

The purpose of this program is to prepare students to assume major leadership positions in a wide variety of education-related organizations by applying managerial skills and educational leadership in the field of education. The program is designed to prepare students to enter educational management in school systems, regional, state, or federal governments, higher education institutions, research institutions, private foundations, or private sector companies.

Candidates must be admitted to both the Neeley School’s MBA program and the College of Education’s Ed.D. program. They must then meet all core requirements listed below as well as complete the START Workshop or MBA orientation. In the event a student elects to complete the MBA

without continuing into the doctoral program, he/she must meet all remaining requirements for the MBA (i.e., elective units in the School of Business). If a student's work is unsatisfactory in MBA courses, and he/she is not permitted to continue, he or she may not be permitted to commence the doctoral program. Throughout the program, students must maintain a B average. At the completion of coursework, students will take written and oral comprehensives before proceeding into the dissertation stage.

Full-Time MBA Curriculum

ACCT 60010	Financial Reporting	1.5
ACCT 60020	Accounting for Managerial Planning and Control	1.5
BUSI 60050	Global Environment of Business	1.5
BUSI 60070	Business Simulation	1.5
FINA 60020	Managerial Economics	1.5
FINA 60010	Financial Management I	1.5
INSC 60010	Statistical Models	1.5
INSC 60020	Managing Operations and Processes	1.5
INSC 60600	Concepts in Supply Chain Management	1.5
ENTR 60230	Regulatory Environment for Entrepreneurs and Managers	1.5
MANA 60330	Engaging People	1.5
MANA 60340	Leading Teams and Orgs	1.5
MANA 60630	Strategic Management	1.5
MANA 60460	Business Ethics	1.5
MARK 60010	Marketing Management	1.5
	Electives	6

Professional Curriculum: MBA courses taught in the evening

ACCT 60010	Financial Reporting	1.5
ACCT 60020	Accounting for Managerial Planning and Control	1.5
BUSI 60050	Global Environment of Business	1.5
BUSI 60070	Business Simulation	1.5
ENTR 60230	Regulatory Environment for Entrepreneurs and Managers	1.5
FINA 60020	Managerial Economics	1.5
FINA 60013	Management of Financial Resources	3
INSC 60010	Statistical Models	1.5
INSC 60020	Managing Operations and Processes	1.5
INSC 60040	Managing Information Technology	1.5
INSC 60050	Business Analytics	1.5
INSC 60600	Concepts in Supply Chain Management	1.5
MANA 60350	Essentials of Motivation	1.5
MANA 60460	Business Ethics	1.5
MANA 60670	Strategy Formulation	1.5
MANA 60680	Strategy Implementation	1.5
MARK 60010	Marketing Management	1.5
	Electives	4.5

Ed.D. Degree Requirements

The M.J. Neeley School of Business and the College of Education offer the MBA/Ed.D. in Education with a business option. An MBA/PhD in Education is also offered. Details about these programs are provided in the College of Education section of this catalog (p. 40). For more information, please see www.coe.tcu.edu/graduateprograms.asp.

Physics with Business Option, Ph.D.

The M.J. Neeley School of Business and the Department of Physics offer the Ph.D. in Physics with a business option. Details about this program are provided in the College of Science & Engineering physics and astronomy section of the Graduate Catalog (p. 105).

Neeley School Master's Degrees

Business Analytics, MS

The mission of the MS Business Analytics program is to develop graduates who utilize technological tools to address business objectives, critically analyze real-world business problems and use appropriate tools to generate solutions, communicate effectively, and possess an ethical perspective.

MS-BA Curriculum

ACCT 60011	Accounting Fundamentals	1
MARK 60110	Marketing and Analytics	0
INSC 70600	Supply Chain Analytics	1.5
FINA 60110	Finance and Analytics	1.5
INSC 60120	Survey of Analytics Technology	1.5
BUSI 60090	Data Ethics and Privacy	1.5
BUSI 66100	Career Management and Professional Development	1.5
ENTR 70630	Data Analytics Capstone for Entrepreneurial Decision Making	3
INSC 60010	Statistical Models	1.5
INSC 60050	Business Analytics	1.5
INSC 60051	Tech Boot Camp	1.5
INSC 60070	Data Visualization	1.5
	Electives (choose 10.5 hours from approved list)	10.5

Subtotal: 19.5

Supply Chain Management, MS

This program provides learning opportunities for working professionals in the area of supply chain management (SCM). The degree plan provides students the flexibility to create a personalized learning track that best meets their individual and professional needs. Primary topics include concepts in supply chain management and leading supply chains. Along with global experiences and integrative field study, these courses provide a solid foundation in supply chain that students can build upon through a significant number of elective courses.

MS-SCM Curriculum:

INSC 60600	Concepts in Supply Chain Management	1.5
INSC 71050	Leading Supply Chains	1.5
INSC 70793	Global Supply Chain Experience	3
INSC 70693	Integrative Field Study	3
	Electives Hours	22.5

Subtotal: 30

Certificate in Supply Chain Management

This program provides learning opportunities for working professionals in the areas of supply chain management (SCM) that are most relevant

to their learning objectives. Students benefit from exposure to supply chain concepts and, with guidance from an advisor, select from a host of class options to build expertise in specific facets of SCM. Through electives, the program provides experience in SCM analytical and decision-making tools. The certificate program can be completed with or without a global emphasis.

CRT-SCM Curriculum (Without Global Emphasis)

INSC 60600	Concepts in Supply Chain Management	1.5
Electives	Electives	7.5
		Subtotal: 9

CRT-SCM Curriculum (With Global Emphasis)

INSC 60600	Concepts in Supply Chain Management	1.5
INSC 70793	Global Supply Chain Experience	3
Electives	Electives	7.5
		Subtotal: 12

Analytics Certificate

This program provides opportunities for Neeley graduate business students to earn a Certificate designation by completing 7.5 hours of Analytics graduate coursework. Primary topics include statistics, data management and data visualization plus additional depth in discipline-specific analytics tools and methods.

Curriculum

Required (4.5 credit hours)

INSC 60010	Statistical Models	1.5
INSC 60050	Business Analytics	1.5
INSC 60070	Data Visualization	1.5
		Subtotal: 4.5

Electives (choose 3 hours from approved list)

BUSI 70200	Business Intelligence & Accounting Analytics	1.5
FINA 70523	Financial Modeling	3
INSC 71110	Predictive Analytics with SAP	1.5
INSC 71130	Data Analytics Simulation: Process Design & Strategic Decision-Making	1.5
MANA 70630	People Analytics	1.5
MARK 70110	Marketing Analytics	1.5
MARK 70200	Customer Relationship Marketing	1.5
MARK 70210	Analytics for Innovation	1.5
MARK 70390	Digital Marketing Analytics	1.5
MARK 70720	New Product Development	1.5
MARK 70770	Marketing Research	1.5

Energy Certificate

The TCU Energy Certificate will help students build a career that withstands any energy trend through research, innovation, leadership development and industry engagement. This evening-only format is ideal for working professionals, either on campus or via remote live learning.

The Energy Certificate requires the completion of nine credit hours with the option for two different learning paths.

General Energy Management Certificate

Required Courses:

- BUSI 70700 - Energy in the 21st Century (1.5 hours)
- BUSI 70970 - Analysis of Current Events in Energy (1.5 hours)
- FINA 70610 - Energy Macroeconomics (1.5 hours)
- MANA 70650 - Energy CEO Forum (1.5 hours)
- Electives (3 hours from approved energy courses)

Sustainable Energy and ESG Certificate

Required Courses:

- BUSI 70700 - Energy in the 21st Century (1.5 hours)
- BUSI 70970 - Analysis of Current Events in Energy (1.5 hours)
- BUSI 70970 - Sustainable Energy Solutions (1.5 hours)
- BUSI 70970 - Environmental, Social and Governance (ESG) Issues in Business (1.5 hours)
- FINA 70610 - Energy Macroeconomics (1.5 hours)
- MANA 70650 - Energy CEO Forum (1.5 hours)

Certificate in Health Policy and Management

Required Courses:

The Certificate in Health Policy and Management aims to support the ongoing professional and career development of current healthcare professionals and students pursuing various healthcare-related professions. The objective of the program is to equip professionals with the knowledge and skills to successfully participate in and lead change across stakeholders and sectors of the healthcare industry at both the macro (policy) and micro (organizational) levels.

The Certificate in Health Policy and Management consist of 9 credit hours and includes:

6 credit hours required

- BUSI 72460 Healthcare Markets (1.5 hours)
- INSC 72470 Healthcare Improvement Science (1.5 hours)
- MANA 72410 Health Care in the U.S. (1.5 hours)
- MANA 72480 Challenges in Healthcare Leadership (1.5 hours)

3 credit hours

MANA 72423 U.S. Health Policy (3 hours in a one-week domestic travel intensive)

Or

Student-selected courses from the Neeley Graduate Programs Office consists of courses such as Design Thinking, Healthcare Finance, Entrepreneurship or Analytics.

Accounting, MAc

The Master of Accounting (MAc) is designed for students planning on professional careers in accounting or related financial professions. It complements the educational experience of the Bachelor of Business Administration (BBA) accounting major by providing the additional accounting and business knowledge needed by successful accounting professionals. Students who successfully complete the BBA Accounting and MAc degree meet the educational requirements for the Uniform CPA Exam in the state of Texas.

There are two options for earning the Master of Accounting degree:

- Traditional Master of Accounting degree (30 credit hours)
- Accelerated Master of Accounting degree (30 credit hours)

Traditional MAc Program

The traditional MAc program is designed for students who have earned or expect to earn a bachelor's degree from an accredited college or university prior to enrollment and have completed coursework on U.S. GAAP, U.S. Tax Law, and PCAOB/AICPA auditing standards. The program is designed such that students can complete the graduate degree in two semesters.

MAc Curriculum

The Neeley School MAc Program applies a holistic approach to the admissions process. Applicants must demonstrate academic proficiency as well as the ability to perform in a highly interactive, team-based environment. Academic records, relevant test scores, motivation, maturity and demonstrated leadership are all considered in the admissions decision. Students who have earned or expect to earn their BBA from TCU, are admitted to the Neeley Professional Program in Accounting (PPA), and have enrolled in (or expect to enroll in) in ACCT 30101 Professional Program in Accounting Seminar, may apply to the Traditional MAc by completing the Intent to Matriculate to graduate studies form.

Students who have not earned a BBA at TCU must provide evidence that they have completed a comparable program at an accredited university that is recognized by the Texas State Board of Public Accountancy. Except under extraordinary circumstances, students applying to the MAc Program must have or expect to earn a bachelor's degree from an accredited college or university prior to enrollment and have completed coursework on U.S. GAAP, U.S. Tax Law, and U.S. auditing standards. The following is an admission application checklist for those students who have not earned a BBA at TCU.

Admission Application Checklist

An application to the Neeley School MAc Program will not be considered by the Admissions Committee until all of the following materials are received:

1. Evidence of all accounting prerequisites
2. Completed application packet
3. Official transcript from each college or university previously attended
4. Two completed reference forms
5. Official GMAT scores
6. Official TOEFL scores (non-native English speakers only)
7. Personal interview (by invitation only)

Application packet and forms are available on the MAc website,

<https://neeley.tcu.edu/Page/Requirements/27d245cf-a1b4-4bdc-8a57-99373764ed88>

MAc Program Requirements

The degree consists of 30 semester hours of graduate-level classes. The 30 hours include 15 hours of courses required for all students. Students may also select from one of three concentrations. The taxation concentration consists of 9 prescribed credit hours; the audit and assurance and the advisory and valuation concentrations consist of 7½ prescribed credit hours. If a concentration is not selected, the program must be approved by the program director. Students can select from any of the graduate accounting MAc courses offered, any of the courses from any of the concentrations, and/or from a recommended list of graduate offerings to obtain the remaining credit hours.

Graduate students must maintain a GPA of at least 2.75 in accordance with the provisions described under Academic Warning. All grades will be included in the computation of the GPA, but no more than 6 hours of "C+" or lower may be utilized in satisfying degree requirements.

MAc Curriculum

MAc Curriculum Required (core) courses:

ACCT 55153	Financial Statement Analysis	3
ACCT 55303	Taxation of Business Entities	3
ACCT 55450	Moral Reasoning in Accounting	1.5
ACCT 55253	Business Combination and Advanced Topics	3

ACCT 55200	Business Intelligence and Accounting Analytics	1.5
ACCT 55460	Ethics for Accounting Professionals	1.5
ACCT 70260	Accounting and Global Perspectives	1.5

Subtotal: 15

Assurance Services Concentration:

ACCT 70220	Advanced Accounting Information Systems	1.5
ACCT 70270	Financial Reporting Research	1.5
ACCT 70290	Advanced Audit & Risk Assessment	1.5
ACCT 55250	Seminar in Current Assurance Topics	1.5
ACCT 70280	Advanced Assurance Services	1.5

Subtotal: 7.5

Taxation Concentration:

ACCT 55350	Seminar in Current Tax Topics	1.5
ACCT 70370	Tax Research	1.5
ACCT 70330	Corporate Taxation	1.5
ACCT 70320	Taxation of Flow-through Entities	1.5
ACCT 70340	Multi-Jurisdiction Tax	1.5
ACCT 70380	Tax Research II	1.5

Subtotal: 9

Advisory and Valuation Concentration

ACCT 70270	Financial Reporting Research	1.5
ACCT 70510	Valuation in Accounting Context I	1.5
ACCT 70520	Valuation in Accounting Context II	1.5
ACCT 55550	Seminar in Current Advisory Topics	1.5
ACCT 70560	Mergers & Acquisitions Accounting	1.5

Subtotal: 7.5

Additional accounting electives available to all MAc students (when offered):

ACCT 70020	Strategic Cost Analysis	1.5
ACCT 70610	Energy Accounting	1.5
ACCT 70433	International Financial Reporting and Global Markets	3
ACCT 70010	Professional Accounting Internship	1-3
ACCT 70440	Accounting and Public Policy	1.5
BUSI 60070	Business Simulation	1.5
MANA 70740	Managing Conflict for Results	1.5

Students can select from any of the accounting electives that are part of each concentration as well as from a list of approved MBA courses to complete their 30 graduate credit hours.

Accelerated MAc Program

The Accelerated Master of Accounting option is for undergraduate students enrolled in TCU's Neeley College of Business who plan to pursue a bachelor's and master's degree concurrently. The Accelerated MAc allows qualified students to complete a BBA and a Master of Accounting (MAc) in as few as four years.

Accelerated MAc Admissions

Students are eligible to apply for the accelerated program at any time after they complete or are currently enrolled in ACCT 30153 Financial Reporting I. Admissions decisions are made after the student completes ACCT 30153, declares accounting as a major and is admitted to the Neeley School of Business. The student's academic record and their

ability to earn the required college credit hours toward eligibility for the Certified Public Accounting (CPA) exam are considered for admission.

Students intending to pursue an Accelerated MAc should make their plans known as early as possible to their Neeley Academic Advisor and the Director of the PPA program to ensure proper advising and enroll in ACCT 30101 Professional Program in Accounting Seminar. If admitted to the Accelerated MAc, students may count up to 12 semester hours at the 55000 level toward both degrees. During students' third and fourth years, they complete the remaining MAc courses in addition to their undergraduate degree requirements. Students may need to enroll in undergraduate or graduate courses during summer and/or winter terms to complete degree requirements. At the end of their academic tenure, assuming all graduation requirements are met, students earn both their baccalaureate and MAc degrees.

Note: No more than 15 hours of 50000-level classes may be applied toward a master's degree.

For additional information: Contact: MAc Program Coordinator
Department of Accounting TCU Box 298530 Fort Worth, Texas 76129
Phone: 817.257.4467 Fax: (817) 257.7227 PPAccounting@tcu.edu

IdeaFactory

The TCU IdeaFactory is a unit of the Neeley School of Business dedicated to supporting the entrepreneurial spirit of TCU students, staff and faculty by providing an environment and resources where an idea can be advanced to a prototype, and potentially, beyond. The IdeaFactory mission: "Supporting the innovative and creative spirit of TCU."

IDEA 50970 Special Topics 1-3

IDEA 60001 Life Design 1

IDEA 60103 Social Innovation & Social Change 3

IDEA 60153 Human Centered Design 3

IDEA 60970 Special Topics 1-3

Bob Schieffer College of Communication

The Bob Schieffer College of Communication offers the Master of Science in two degree plans - communication studies and strategic communication. Students interested either in continuing into a doctoral program or professional development will find programs that prepare them for the future. Research and development are balanced with applied experiences in the communication field. Located in one of the largest media markets in the United States, the graduate programs in the Bob Schieffer College of Communication at TCU offer diverse opportunities in a supportive and stimulating environment.

Bob Schieffer College of Communication Admission Requirements

An applicant must possess a bachelor's degree from an institution regarded as standard by the University and a regional accrediting agency. For unconditional admission, the student must have satisfactory undergraduate preparation for the particular degree sought. This is determined by the departmental graduate director and the Bob Schieffer College of Communication associate dean and includes a:

- "B" average in the last 60 hours of undergraduate work or in all undergraduate work;
- "B" average in the major field of study; and
- Satisfactory scores on the GRE, if applying to Communication Studies (optional for Strategic Communication)

and TOEFL, as required by the department.

An application that is otherwise satisfactory may still be rejected if the intended major area has already accepted as many new students as its facilities can accommodate, or if it is felt that the program TCU provides is not suitable to the applicant's vocational goals.

Application Procedure

The application is considered complete when the following are received:

- Completed online application form;
- One official transcript from each university/college attended. This includes all undergraduate and graduate work from all colleges or universities attended. TCU transcripts are not required;
- A statement of experience and professional goals, which allows the strategic communication admissions committee to adequately determine the applicant's qualifications;
- Three letters of recommendation;
- Official TOEFL scores for non-native English speakers;
- A \$60 application fee;
- GRE general test scores, for those applying to communication studies. The GRE is optional for those applying to strategic communication;
- Resume or curriculum vita, for those applying to strategic communication;
- A video statement of the applicant's experience and professional goals, for those applying to strategic communication, which allows the strategic communication admissions committee to adequately determine the applicant's suitability for the graduate program;
- A written essay responding to a prompt or question, for those applying to strategic communication

Additional admission information is available on the Bob Schieffer College of Communication Graduate Studies website.

International Applicants

International applicants must submit TOEFL scores of 550 or better paper based, 213 computer based or 79 or better Internet-based, and proof of financial support. See individual programs for other requirements. TCU recommends a 100 or higher TOEFL score (internet based) for international students.

Conditional Admission Policy

A conditional admission may be granted to students who may be weak in one of the admission criteria if they show strength in all other criteria. The letter of acceptance will state the conditions that must be met in the first nine hours. Special permission to extend this conditional admission must be made in writing through the associate dean's office. Students

who have not removed the conditions by the stated deadline will not be permitted to register for classes in the subsequent semester.

Bob Schieffer College of Communication Grading Procedures

The grading policy for all graduate communication courses is based on the following scale:

Letter Grade	Grade Point Weight
A	4.00
A-	3.67
B+	3.33
B	3.00
B-	2.67
C+	2.33
C	2.00
C-	1.67
F	0.000

"I" — Course has not been completed and final grade has not been assigned. The "I" must be removed within the first 60 days of the long semester immediately following (with exception to the thesis or project in lieu of a thesis) or it is changed to an "F." Any extension must have written approval of the instructor of record and college dean.

"Q" — Removed from the course by the academic dean

"W" — Officially withdrew from the course

"AU" — Officially audited the course

Bob Schieffer College of Communication Academic Standards

All graduate students are required to meet the academic standards set by the Bob Schieffer College of Communication faculty. Failure to do so will result in academic probation or suspension. Graduate students must achieve at least a 2.75 GPA each semester and on a cumulative basis throughout their program of study. A student who fails to meet this expectation will be placed on probation the following long semester and must achieve a cumulative GPA of 2.75. Failure to meet that expectation will result in the removal from the program with the right to appeal to the Bob Schieffer College of Communication dean. If a graduate student in the Bob Schieffer College of Communication receives six hours of a grade of "C+" or lower, the associate dean of the graduate programs for the college may dismiss the student from the program because of failure to make satisfactory academic progress.

Bob Schieffer College of Communication Financial Aid

Stipend/Tuition Reimbursement. Merit-based financial aid is available. Students must request financial assistance in their application.

Responsibilities tied to stipend awards are departmentally driven. In all units, the graduate students on a stipend are assigned to work with a faculty member. In some units, students are assigned a lab to work in as they mentor students and assist with teaching duties. In other units, students may assist a faculty member with grading or course development or research. The number of hours assigned are directly related to the stipend. Unit graduate directors are responsible for keeping track of the graduate student's time and job as an assistant. The faculty member who oversees the student will report to the graduate director.

Satisfactory Progress

Candidacy. This status is awarded when the student has completed a minimum of nine graduate hours, maintained a graduate GPA of at least a 2.75 and secured approval from the unit graduate coordinator.

Communication Studies Degree Program

The Department of Communication Studies offers a Master of Science in Communication Studies. Applicants for the Communication Studies

program must follow the Bob Schieffer College of Communication admission procedures as outlined in this catalog.

Communication Studies, MS

To pursue the Master of Science in Communication Studies, a student must have a bachelor's degree, including at least 15 hours in communication studies and nine hours in related areas.

The graduate major consists of 36 credit hours, including two basic plans.

Plan I

The *non-thesis* plan includes 36 hours of coursework. A student electing this option must successfully complete oral and written comprehensive examinations as specified by the graduate committee.

Plan II

The *thesis* plan includes 30 hours of coursework and six hours of thesis. A student electing this option must successfully complete the thesis and satisfactorily pass an oral defense of the thesis.

General Information about Plan I and II

At least 24 hours of a student's program must be at the 60000 level. With special permission from the graduate coordinator, students may take up to six hours outside the department.

Required Courses

COMM 60173	Communication Research Methods	3
COMM 60183	Communication Theory	3
COMM 60193	Advanced Research Methods in Communication Studies	3

Department of Strategic Communication

Strategic Communication, MS

This degree is designed for working strategic communication professionals seeking to broaden their understanding of strategic communication theories and skills in strategy, research, storytelling, new media and leadership. Students will take a blend of advertising and public relations courses that enable them to compete in today's digital and global world.

Admission Requirements

Please see the following for admission requirements

Applicants must meet general University requirements as specified in the graduate catalog, and have completed 15 semester hours (five courses) in undergraduate journalism, advertising, public relations, marketing or a related field or have sufficient professional experience in a communication discipline as determined by the graduate admissions committee.

Degree Requirements for Strategic Communication Master of Science Degrees

The Master of Science in Strategic Communication require 36 hours.

All Strategic Communication graduate students take the following core courses.

STCO 50123	Foundations and Theory	3
STCO 50183	Management and Leadership	3
STCO 60113	Research Methods	3
STCO 60133	Ethics	3
STCO 60183	Global Strategic Communication	3

Students may select up to 21 hours of strategic communication courses that best fit their career needs. With special permission from the

graduate director, up to 6 approved graduate hours may be taken outside the Department of Strategic Communication.

Students may choose one of two tracks for graduation.

Track I: Project

The project track requires 33 hours of coursework and 3 hours of project. For TCU Certified Public Communicator graduates, and with permission from the graduate director, the project track requires 27 hours of coursework and 3 hours of project. The project is completed during the semester prior to graduation. Students who do a project apply the skills and knowledge they have gained in their graduate coursework to solve an applied, contemporary problem or issue.

Track II: Thesis

The thesis track requires 30 hours of coursework and 6 hours of thesis. For TCU Certified Public Communicator graduates, and with permission from the graduate director, the thesis track requires 24 hours of coursework and 6 hours of thesis. The thesis takes two semesters to complete and involves a research project. Graduate students who are thinking of going on to earn a Ph.D. typically elect for the thesis track.

Students must secure permission from the graduate associate director prior to enrolling for the project or thesis.

College of Education

The mission of the College of Education at Texas Christian University is to prepare exemplary leaders for diverse educational settings and related fields who are reflective, ethical, innovative, and committed to all learners. We meet that mission by offering excellent graduate programs taught in small classes by professors who know their students well. Educational experiences are designed so that students can grow personally and professionally to become leaders in their field.

College of Education Programs

Master of Education degrees are offered with majors in:

- Curriculum and Instruction
- Clinical Mental Health Counseling
- School Counseling
- Human Services
- Special Education
- Educational Leadership

Doctoral degrees are offered in:

- Ph.D. in Educational Studies
 - Counseling and Counselor Education
 - Curriculum Studies
 - Educational Leadership
 - Science Education
- Ed.D. in Educational Leadership
- Ed.D. in Higher Educational Leadership
- MBA/Ed.D. Joint Program in Educational Leadership
- MBA/Ph.D. in Educational Studies: Educational Leadership

College of Education Admission for Graduate Studies

TCU's admissions standards stated in the admissions portion of the graduate catalog are used in the College of Education admission process in addition to the following:

Application Checklist for Admission

Because applications are considered in light of multiple criteria, incomplete applications cannot be accepted. A complete application consists of:

- The completed application form. The application form may be obtained at www.applyweb.com/tcug.
- A personal essay stating reasons for applying to the graduate program including professional background information and goals (200 words or fewer).
- Official transcripts from each college/university previously attended. E-transcripts must be sent directly to tcugradstudies@tcu.edu from the university or college attended. Paper transcripts may be mailed to Registrar's Office – Transcripts, TCU Box 297004, Ft. Worth, TX 76129. (TCU transcripts are not required.)
- Three letters of recommendation (at least two of the letters should be from individuals who can comment on applicant's academic performance and/or potential to reach professional goals.
- Official TOEFL scores for non-native English speakers.
- Evidence of current criminal record search (for all programs except Higher Education Leadership M.Ed., Higher Educational Leadership Ed.D., and Educational Leadership Ph.D., Higher Education Emphasis).
- Personal or video-based interviews for students applying to many of the graduate programs (format determined by program).
- Optional: Official GRE test scores.
- A writing sample (15-20 pages, exclusive of notes and works cited) demonstrating appropriate academic writing skills needed for success in a graduate program for the Ph.D. in Counseling and

Counselor Education, Curriculum Studies, Educational Leadership and Science Education.

- An essay, including a short professional background summary, a statement addressing professional goals and a brief philosophy of leadership statement for the Ed.D. in Educational Leadership and Higher Educational Leadership programs as well as for the MBA/Ed.D. program.
- A brief equity statement (for PK-12 Educational Leadership programs, including certification-only programs); see departmental website for more information.
- \$60 application fee.
- Certification-seeking students (i.e. Principal, Superintendent, or School Counseling) must provide valid Texas Educator Certification and Service Record.
- Pay the \$35 Texas Education Accountability System for Educator Preparation Program Fee, as required by 19 TAC 229.9(7). The fee will appear on your TCU student account.

Admission Deadlines

M.Ed. Applications

- Nov. 16 for spring admission (available or Higher Ed. Leadership M.Ed., Curriculum & Instruction M.Ed., and Special Education M.Ed.)
- Jan. 20 for fall admission to Educational Leadership M.Ed.: Higher Education Emphasis (Graduate Assistant applicants only).
- Feb. 1 – deadline for fall admission to Counseling & Human Services programs (Clinical Mental Health M.Ed., School Counseling M.Ed., and Human Services M.Ed.)
- March 1 for summer/fall admission

Ed.D. in Educational Leadership

- Dec. 1 - priority deadline
- Feb. 1 - final deadline

Ed.D. in Higher Educational Leadership

- Dec. 1 - priority deadline
- Feb. 1 - final deadline

Joint MBA/Ed.D. in Educational Leadership and Higher Education Leadership

- March 1 for fall admission

Ph.D. in Educational Studies: Curriculum Studies, Counseling and Counselor Education, Educational Leadership and Science Education

- Dec. 1 - priority deadline
- Feb 1 - final deadline

Retention in the College of Education Graduate Programs

Students must maintain acceptable academic performance (minimum 3.0 GPA) in order to advance in the program. The College of Education is dedicated to identifying and intervening to assist students who demonstrate difficulties maintaining these standards.

Any faculty member who has concern about a student's performance and/or professionalism may initiate the Academic Performance and Professionalism Warning (APPW) process. The process operates as follows:

- The faculty member completes the APPW form describing the concerns and indicating potential strategies and solutions to resolve the problem.
- A conference between the student and two faculty members is required to complete the APPW form. During the conference, the parties will discuss the student's understanding of the concerns, generate potential solutions, and agree upon a course of action. The APPW contract will be signed by the student and faculty members. If the student fails to respond or attend a conference, the two faculty members will complete the form and notify the student via certified mail.

- The completed form is submitted to the associate dean, the student and the Dean of Students office.
- Any student receiving two notices through this process may be considered for dismissal from the College of Education.
- Except in an unusually severe or critical situation (e.g., plagiarism, cheating, threat of harm to others, etc.), no single retention notice will result in a student being dismissed from the program.
- These notices do not become part of a student's permanent academic record.

Master of Education Program Descriptions

Curriculum and Instruction, M.Ed.

The Curriculum and Instruction master's degree program is designed for teachers and other educational professionals interested in improving their instruction, preparing for positions of leadership, or enhancing their abilities to support learning in K-12 schools or other educational settings. The program offers graduate students two kinds of preparation: 1) knowledge related to content and 2) knowledge that helps them contribute to scholarship. The degree is constructed so that students choose a content specialization and either a research emphasis, or a teaching and learning emphasis. The objectives of the program are to:

- Provide a rigorous master's degree program that prepares graduate students to work with children, adolescents, and families in a variety of educational settings.
- Provide graduate students with the knowledge and skills necessary to enhance their teaching and research abilities.

There are two options for earning the Curriculum and Instruction master's degree:

- Traditional master's degree (30 credit hours)
- Accelerated master's degree (30 credit hours)

The traditional Master of Education (MEd) is a 30 credit hour program that provides a solid knowledge base and background in the theoretical and practical aspects of the selected specializations. These specializations include:

Curriculum Studies Specialization

Curriculum Studies as a field is interdisciplinary and draws upon multiple perspectives including psychology, social foundations, cultural studies, critical theory, and education to study curriculum, individuals, societies, and interdisciplinary themes, while critically examining educational issues and policies. The field values democratic community building and an ethic of social action that honors diversity. Students come to curriculum studies from formal and informal learning contexts as well as various disciplines. Graduates of the program pursue varied professional positions in schools, non-profit agencies, and other community organizations. While curriculum studies students' backgrounds and goals are diverse, they share an interest in understanding the intersections of individuals and sociopolitical contexts. Curriculum studies arises from a 1970s reconceptualization of curriculum. Concerned with understanding curriculum more so than developing and evaluating curricula, Curriculum Studies addresses questions such as:

- What is knowledge and who decides? How does knowledge affect lives?
- What does it mean to educate and to be/come educated?
- What are the relationships between learning and teaching, curriculum theory and practice?
- How is curriculum culturally, politically, and economically situated?
- What are the roles of power and vulnerability in curriculum studies?

Language and Literacy Specialization

The Language and Literacy specialization focuses on research and pedagogy related to language and literacy, while preparing graduate students with an in-depth understanding of teaching reading and writing to children and adolescents. With this knowledge, students will be able to establish themselves as teacher-leaders in their respective schools and districts. Prerequisite: Certification to teach EC-6, or English Language Arts/Reading as respective grade levels. Note: This program

does not meet the requirements for Reading, English Language Arts teacher certification.

Mathematics Education Specialization

By completing this specialization, students will enhance their mathematical knowledge for teaching and pedagogical content knowledge, understand the vertical alignment of the mathematics content areas in the pre-K through 12 curriculum, and link research and practice by understanding how to use and conduct research to enhance teacher practice. With this knowledge, students will be able to establish themselves as teacher-leaders in their respective schools and districts. Prerequisite: Certification to teach mathematics at respective grade level. If not certified, the applicant must demonstrate subject preparation for a highly qualified teacher as outlined by the Texas Education Association under the No Child Left Behind Act:

- 24 hours or more of mathematics coursework at the undergraduate level (for middle/secondary candidates) or
- Undergraduate mathematics coursework, professional development in mathematics and/or teaching experience (for elementary candidates).

Note: This program does not meet the requirements for mathematics teacher certification.

Science Education Specialization

Science Education draws upon science, psychology, and education as a foundation for the teaching about and learning of science. The science education reform documents require students to have knowledge of practices, crosscutting concepts, and core ideas of science and an in-depth understanding of teaching science to all children. In addition, students earning this degree will have an understanding of and experience in original research. There is a minimum requirement of 12 hours of course work in this area of specialization.

Required Courses for the Traditional Master's Option

Students complete 12 hours of course work within a specialization selected from the courses below. 3 hours of elective are selected from outside of the specialization:

Curriculum Studies

EDUC 70813	Curriculum Studies Seminar	3
EDUC 60833	Curriculum History in the United States	3
EDUC 60843	Contemporary Curriculum Theory	3
EDUC 70823	Inquiry Seminar	3

EDUC 70813 6 hours may be repeated with new topic.

Language and Literacy

EDUC 60053	Advanced Study of Literacy Instruction	3
EDUC 60083	Seminar in Language and Literacy	3
EDUC 60413	Foundations of Literacy	3
EDUC 60613	Analysis of Literacy Progress	3
EDXX XXXX3	Elective (3 hours)	3

Mathematics Education

EDMT 50123	Teaching Geometry and Measurement	3
EDMT 50133	Teaching Data Analysis and Probability	3
EDMT 60103	Teaching Number and Operations	3
EDMT 60113	Teaching Algebraic Thinking	3
EDMT 60143	Teaching and Learning Mathematics with Technology	3
EDHE/EDLE 60013	Leadership: Theory and Practice - cross-listed in Higher Ed & Ed Leadership	3
EDMT 60153	Fostering Discourse in the Mathematics Classroom	3

EDMT 60513	Practicum in Mathematics Education	3
<i>EDMT 60513: required for Accelerated Master's Option</i>		

Science Education

EDSC 60033	Academic Language Development in Science	3
EDSC 60333	Theory and Pedagogy of Science Instruction	3
EDMS/SE 50553	Methods for Teaching Middle School/Secondary Science	3
EDXX XXXX3	Elective (3 hours)	3

Core Requirements (3 hours minimum required for all students)

EDUC 70953	Research in Education	3
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In addition to the content specialization and core requirements, students select either a Research or Teaching and Learning Emphasis.

Research Emphasis (6 Thesis hours are required for Research Emphasis. An additional 6 hours of course work are required from the list of courses below, with advisor guidance)

EDUC 60043	Action Research	3
EDUC 60810	Seminar in Educational Research	1-3
EDUC 60823	Educational Program Evaluation & Research	3
EDUC 70823	Inquiry Seminar	3
EDUC 70923	Introduction to Applied Qualitative Methods	3
EDUC 70960	Apprenticeship in Research	1-3
EDUC 70963	Qualitative Inquiry	3
EDUC 70973	Advanced Qualitative Inquiry	3
EDUC 70983	Introduction to Quantitative Research	3
EDUC 70980	Thesis	1-20
EDUC 70990	Thesis	1-3

EDUC 60810: 1-3 hours

EDUC 70960: 1-3 hours, may be repeated

EDUC 70980: 3 hours required

EDUC 70990: 3 hours required

Teaching and Learning Emphasis (All students choosing the Teaching and Learning emphasis select 12 hours from the list of courses below, with advisor guidance)

EDEC 60133	Play and Creativity	3
EDEC 60223	The Young Child	3
EDLE 60043	Instructional Leadership A: Curriculum, Instruction, and Assessment	3
EDLE 60053	Instructional Leadership B: Supervision	3
EDSE 50173	Development of Written Communication	3
EDUC 50273	Technology for Diverse Learners	3
EDUC 50003	Diversity in American Education	3
EDUC 50503	Foundations of Language Acquisition	3
EDUC 50513	TESOL Methods and Assessment	3
EDUC 60213	Psychology of Thinking and Learning	3
EDUC 60253	Historical and Philosophical Foundations of Education	3
EDUC 60313	Educational Assessment	3
EDUC 60833	Curriculum History in the United States	3

EDUC 60843	Contemporary Curriculum Theory	3
EDUC 70903	Treatise	3

EDUC 70903: required for Traditional Master's Degree Option

Accelerated Master's Option

The Accelerated Option is for high achieving undergraduate students enrolled in TCU's College of Education. This option is available only to TCU undergraduates obtaining a baccalaureate degree in early childhood (EC-6), middle school or secondary education, or a baccalaureate degree in youth advocacy and educational studies. The Accelerated Option allows outstanding students to complete a bachelor's degree with the Master of Education (MEd) in five years. Students are eligible to apply for admission to the graduate program during the semester they complete 90 hours of undergraduate coursework. To be considered for admission to the Accelerated Option, students must submit a graduate program application packet. Only candidates demonstrating superior undergraduate academic performance and having strong recommendations are considered for admission.

Students intending to pursue an Accelerated Option should make their plans known as early as possible to their faculty advisor in the College of Education to ensure proper advising. If admitted to the Accelerated Program, students complete up to 12 semester hours of the MEd program during the fourth year of undergraduate study. Candidates must work with their undergraduate advisors to determine how the courses they take will apply to the undergraduate degree. During their senior year, they complete the following classes.

EC-6 Undergraduate Major

EDUC 55980	Advanced Clinical Teaching	1-6
EDEC 55123	Learner-Centered Teaching: Families	3
EDUC 55133	Reading Instruction Grades 3-6	3

Middle/Secondary Undergraduate Major

EDUC 55313	Educational Assessment	3
EDSP 55663	Motivating and Managing Students in the Classroom	3
EDUC 55980	Internship	1-6

Youth Advocacy and Educational Studies Undergraduate Major

EDUC 55003	Diversity in American Education	3
EDUC 55510	Advanced Internship: Youth Advocacy and Educational Studies	1-20

At the end of the fourth year, assuming all other graduation requirements are met, the student earns the baccalaureate degree. During the fifth year, including summer, the student completes the remaining semester hours toward the MEd degree. Students will complete 9 hours of core courses, 12 hours from the Teaching and Learning emphasis (including EDMS/SE 51103 Educational Assessment), and 15 hours from content area specialization as described under the Traditional Master's Option.

Note: No more than 15 hours of 50000-level classes may be applied toward a master's degree.

School Counseling, M.Ed.

The MEd in School Counseling focuses on providing students with a 48-hour rigorous and strength-based program to pursue certification in school counseling. All counseling classes may be applied to academic requirements for Texas professional licensure. The MEd in School Counseling meets the requirements of the State Board of Educator Certification and

follows the guidelines for certification in school counseling. The following courses are required.

Major (48 semester hours)

EDGU 60323	Assessment in Counseling	3
EDUC 60823	Educational Program Evaluation & Research	3
EDUC 60143	Theories of Human Development	3
EDGU 60153	Introduction to Play Therapy	3
EDGU 50223	Helping Relationships	3
EDGU 60003	Counseling Diverse Populations	3
EDGU 60233	Career Development and Information	3
EDGU 50323	Small Group Counseling	3
EDGU 60143	Counseling Interventions	3
EDGU 60383	Counseling Theories and Techniques	3
EDGU 60613	Guidance and Counseling Programs	3
EDGU 60223	Advanced Counseling Skills and Ethics	3
EDGU 70103	Practicum I	3
Students select 9 hours from the following:		
EDGU 60133	Addictions Counseling	3
EDGU 60163	Abnormal Human Development	3
EDGU 60213	Introduction to Marriage and Family Therapy	3
EDGU 70233	International Practices of Counseling	3
EDGU 60113	DSM: Diagnosis and Treatment	3
EDGU 70793	Strength-Based Theories: Assessment, Research, and Practice	3
ARED 60970	Special Problems: Therapeutic Arts	1-3

Students must provide valid Texas Educator Certification upon applying and must have complete all educator preparation requirement including at least two full creditable years of teaching in an accredited school by the time they complete their program at TCU to be eligible for TCU to make a recommendation to the State Board for Educator Certification (SBEC).

Students must pass the practice TExES exam before taking the state exam for counseling in schools.

Probationary School Counseling

A student may apply for probationary certification if a) a school district has made an official offer to the student to fill a counselor position, and b) the counseling program faculty in the College of Education approve the probationary certification. In order to gain faculty approval the student must be within the last 12 hours of the program or two long semesters and have successfully completed:

Certification

EDGU 60613	Guidance and Counseling Programs	3
EDGU 50223	Helping Relationships	3
EDGU 50323	Small Group Counseling	3
EDGU 60143	Counseling Interventions	3

The student also must have demonstrated ethical and professional behavior. As long as the student has not graduated, he or she must remain under supervision of the TCU counseling faculty. This will require the student to report to the faculty member on a regular basis and maintain appropriate documentation regardless of whether the student is enrolled in a practicum course.

Clinical Mental Health Counseling, M.Ed.

The Master of Education in Clinical Mental Health Counseling focuses on providing students with a 60-hour, rigorous and strength-based program to prepare students for licensure in the State of Texas, in accordance with Council for Accreditation of Counseling and Related-Educational Program (CACREP) requirements.

The objectives of this program are to:

- Provide a rigorous course of study to prepare students to work with children and families in a variety of settings; and
- Provide students with the necessary foundational knowledge to successfully pass the National Counselor Exam administered by the Texas State Board of Examiners of Professional Counselors. To meet these objectives, the following courses are required:

Professional Studies (12 hours)

EDGU 60003	Counseling Diverse Populations	3
EDGU 60323	Assessment in Counseling	3
EDUC 60823	Educational Program Evaluation & Research	3
EDUC 60143	Theories of Human Development	3

Specialization (30 hours)

EDGU 50223	Helping Relationships	3
EDGU 50323	Small Group Counseling	3
EDGU 60113	DSM: Diagnosis and Treatment	3
EDGU 60143	Counseling Interventions	3
EDGU 60163	Abnormal Human Development	3
EDGU 60383	Counseling Theories and Techniques	3
EDGU 60133	Addictions Counseling	3
EDGU 60213	Introduction to Marriage and Family Therapy	3
EDGU 60223	Advanced Counseling Skills and Ethics	3
EDGU 60233	Career Development and Information	3

Program Class (minimum 3 hours)

EDGU 70033	Orientation and Ethical Practice in Clinical Mental Health Counseling	3
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Field Experience (9 hours)

EDGU 70103	Practicum I	3
EDGU 70303	Internship (Semester 1)	3
EDGU 70303	Internship (Semester 2)	3

Students select two elective courses from the following (6 hours):

ARED 60970	Special Problems: Therapeutic Arts	1-3
EDGU 60153	Introduction to Play Therapy	3
EDGU 70233	International Practices of Counseling	3
EDGU 60613	Guidance and Counseling Programs	3

Human Services, M.Ed.

The Master of Education in Human Services focuses on providing students with a 36-hour, rigorous and strength-based program to for students who are interested in providing social services in settings that do not require licensure or certification. The following courses are required in the 36-hour Human Services Program.

Professional Studies (36 hours)

EDUC 60823	Educational Program Evaluation & Research	3
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EDGU 50223	Helping Relationships	3
EDGU 60003	Counseling Diverse Populations	3
EDGU 50323	Small Group Counseling	3
EDGU 60143	Counseling Interventions	3
EDGU 60223	Advanced Counseling Skills and Ethics	3
EDGU 60383	Counseling Theories and Techniques	3
EDGU 70103	Practicum I	3
	Electives (must be approved by advisor)	12

Students may transfer up to 6 hours of approved course-work.

To complete the MEd in School Counseling, Clinical Mental Health Counseling, or Human Services requires that the students successfully complete the 36-hour, 48-hour, or 60-hour master's program with a "B" average or better and successfully pass an oral examination involving a written and video case presentation.

Special Education, M.Ed.

The mission of the special education master's degree program is to prepare educators who understand and implement researched-based practices, serve as instructional leaders, and advocate for students with disabilities and their families.

The M.Ed. in Special Education is a 30-hour program designed for students who are certified in elementary, middle school, secondary school special education or who have extensive experience in a related field. The traditional program addresses K-12 special education, focusing on evidenced-based instructional practices and research methodology related to students with high-incidence disabilities such as learning or behavioral disabilities. In the second M.Ed. option, Special Education M.Ed. with Educational Diagnostician Certification, students learn evidence-based instructional practices and research methodologies, as well as become certified Educational Diagnosticians through the state of Texas. Students may choose either option in pursuit of a Special Education M.Ed.

Upon acceptance into the graduate program in special education, students must meet with a special education advisor. It is essential that students work closely with an advisor at the time of program admittance through completion.

The M.Ed. in special education does not lead to initial teacher certification.

There are two options for earning a Special Education master's degree:

- Special Education (30 credit hours)
- Special Education with Educational Diagnostician Certification (36 credits)

The traditional Master of Special Education (M.Ed.) is a 30 credit hour program that provides a solid knowledge base and background in the theoretical and practical aspects of the field of special education. The traditional degree plan is outlined below.

Required Courses for the Traditional Master's Option

Research Requirements (9 hours)

EDUC 70953	Research in Education	3
EDSP 70003	Single Subject Research Design	3
	OR	
EDUC 60043	Action Research	3
EDSP 70903	Treatise in Special Education	3

The Master of Special Education with Educational Diagnostician Certification (M.Ed.) is a 36 credit hour program that provides a solid knowledge base related to the field of special education along with a certification as an Educational Diagnostician. This degree plan is outlined below.

Core requirements (21 hours)

EDSP 50013	Literacy Methods in Special Education	3
EDSP 50663	Motivating and Managing Students in the Classroom	3
EDSP 60233	Understanding Exceptional Children and Youth At-Risk	3
EDSP 60313	Critical Issues in Special Education	3
EDSP 60433	Planning and Instruction in Academically Diverse Classrooms	3
EDUC 60313	Educational Assessment	3
EDSP 60513	Practicum in Special Education	3
	OR	
EDUC 50273	Technology for Diverse Learners	3

Required Courses for Master's of Special Education with Educational Diagnostician Certification

Core requirements (12 hours)

EDSP 50013	Literacy Methods in Special Education	3
EDSP 50663	Motivating and Managing Students in the Classroom	3
EDSP 60233	Understanding Exceptional Children and Youth At-Risk	3
EDSP 60513	Practicum in Special Education	3

Diagnostician Certification Requirements (15 hours)

EDSP 60333	Academic Achievement and Evaluation	3
EDSP 60313	Critical Issues in Special Education	3
EDSP 60433	Planning and Instruction in Academically Diverse Classrooms	3
EDSP 60533	Culturally Responsive and Language Based Assessment	3
EDSP 60723	Cognitive Assessment and Adaptive Behavior	3

Research Requirements (9 hours)

EDUC 70953	Research in Education	3
EDSP 70003	Single Subject Research Design	3
EDSP 70903	Treatise in Special Education	3

Accelerated Master's Option Special Education

The Accelerated Option for a master's degree in special education is for high-achieving undergraduate students enrolled in TCU's College of Education. This option is available only to TCU undergraduate students obtaining a baccalaureate degree in early childhood (EC-6), middle school, or secondary education, or a baccalaureate degree in youth advocacy and educational studies. The Accelerated Option allows outstanding students to complete a bachelor's degree and a Master of Education (M.Ed.) in five years. Students are eligible to apply for admission to the graduate program during the semester they complete 90 hours of undergraduate coursework. To be considered for admission to the Accelerated Option, students must submit a graduate program application packet. Only candidates demonstrating superior undergraduate academic performance and having strong recommendations are considered for admission.

Students intending to pursue an Accelerated Option should tell their faculty advisor as early as possible to ensure proper advising. If admitted

to the Accelerated Program, students' complete 12 semester hours of the M.Ed. program during the fourth year as listed below:

Accelerated Master's Degree in Special Education

EC-6 Undergraduate Major (Required Courses 12 hours)

EDUC 55980	Advanced Clinical Teaching	1.00-6.00
EDEC 55123	Learner-Centered Teaching: Families	3
EDUC 55133	Reading Instruction Grades 3-6	3

OR

Middle/Secondary Undergraduate Major Required Courses (12 hours)

EDEC 55313	Educational Assessment	3
EDEC 55663	Motivating and Managing Students in the Classroom	3
EDUC 55980	Internship	1-6

At the end of the fourth year, assuming all other graduation requirements are met, the student earns a baccalaureate degree. During the fifth year, including summer, all students (EC-6 and Middle/Secondary) complete the remaining semester hours toward the M.Ed. degree as listed below:

Remaining Core Requirements (12 hours)

EDSP 50013	Literacy Methods in Special Education	3
	OR	
EDUC 50273	Technology for Diverse Learners	3
EDSP 60233	Understanding Exceptional Children and Youth At-Risk	3
EDSP 60313	Critical Issues in Special Education	3
EDSP 60433	Planning and Instruction in Academically Diverse Classrooms	3

Remaining Research Requirements (6 hours)

EDUC 70953	Research in Education	3
EDSP 70003	Single Subject Research Design	3
	OR	
EDUC 70903	Treatise	3

Educational Leadership, M.Ed.

The M.Ed. in Educational Leadership (Higher Education emphasis) is a 36 credit-hour non-thesis program that prepares individuals to serve in educational leadership in college and university and higher-education related settings. The M.Ed. in Educational Leadership (Higher Education emphasis) is comprised of the following course of study:

Higher Education Emphasis

EDHE/EDAD 70203/70200	Internship - Cross-listed in Higher Education & Ed Leadership	3
EDHE/EDGU 60403	Theories of Student Development - cross-listed in Higher Education and Counseling	3
EDHE 60423	Introduction to Student Affairs	3
EDHE 62373	Helping Relationships for Higher Education Administrators	3
EDHE/EDLE 60013	Leadership: Theory and Practice - cross-listed in Higher Ed & Ed Leadership	3
EDHE 61183	Special Topics in Higher Education	3

EDHE 61093	Diversity in American Higher Education	3
EDUC 60823	Educational Program Evaluation & Research	3
EDUC 70983	Introduction to Quantitative Research	3
EDHE 62053	Small Group Dynamics for Higher Education Administrators	3
	Electives	3
	Electives	3

M.Ed. Educational Leadership PK-12

The M.Ed. in Educational Leadership (PK-12 emphasis) is a 30 credit-hour non-thesis program that prepares individuals to serve in K-12 educational leadership in a variety of educational settings. The program accepts a new cohort beginning each fall term, and persons in the cohort move through coursework together.

Two pathways are available in the Educational Leadership, M.Ed. PK-12 emphasis: The first pathway serves students who are seeking certification as school administrators in the state of Texas (i.e., seeking the Principal-as-Instructional Leader certificate from the State Board of Educator Certification). The second focuses on developing leadership skills useful in the PK-12 context, but serves those who are not seeking certification; this might include persons wanting to serve in roles (e.g., teacher-leaders, instructional coaches) that do not require the Principal-as-Instructional Leader certificate.

Note: Applicants seeking to enroll in the coursework leading to certification as a principal must hold a valid teaching certificate and must have completed at least two full years of teaching in an accredited school by the time they would begin M.Ed. coursework, and must have completed at least three full years of teaching in an accredited school by the time they complete their program at TCU to be eligible for TCU to make a recommendation to the State Board for Educator Certification (SBE).

PK 12 Emphasis (leading to Principal Certification)

EDLE 60013	Leadership: Theory and Practice	3
EDLE 60023	Seminar: Trends in Teaching, Learning, and Leadership	3
EDLE 60033	Community Engagement and Culturally Responsive Practice	3
EDLE 60043	Instructional Leadership: Curriculum, Instruction, & Assessment	3
EDLE 60053	Instructional Leadership: Supervision, Coaching, & Evaluation	3
EDLE 60063	Law and Ethics in Educational Leadership	3
EDLE 60083	Data Use for Educational Leaders	3
EDUC 70953	Research in Education	3
EDLE 60093	Principal Practicum in Educational Leadership	3
EDLE 60093	Principal Practicum in Educational Leadership	3

In addition to completing the designated slate of courses, students seeking certification as a principal must submit evidence of successful completion of two workshops provided by one of the 20 Texas Education Service Centers [Advancing Educational Leadership (AEL) and Texas Teacher Evaluation and Support System (T-TESS)] prior to beginning any work related to EDLE 60093. Students seeking certification must also take and pass a practice exam administered by program faculty before being recommended to take the appropriate state-required examinations for principal certification.

Students enrolled in the M.Ed. EDLE (PK-12 emphasis) will continue to participate in a Midpoint Assessment after they complete their first 12 credit hours; at this point they will each receive written and verbal feedback on strengths and areas in need of improvement during the second half of their program.

PK-12 Emphasis (Non-certification Track)

EDLE 60013	Leadership: Theory and Practice	3
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EDLE 60023	Seminar: Trends in Teaching, Learning, and Leadership	3
EDLE 60033	Community Engagement and Culturally Responsive Practice	3
EDLE 60043	Instructional Leadership: Curriculum, Instruction, & Assessment	3
EDLE 60053	Instructional Leadership: Supervision, Coaching, & Evaluation	3
EDLE 60063	Law and Ethics in Educational Leadership	3
EDLE 60083	Data Use for Educational Leaders	3
EDUC 70953	Research in Education	3
EDAD 70200	Internship in Educational Administration or additional 3-hour elective	1-6
EDAD 70200	Internship in Educational Administration or additional 3-hour elective	1-6

School Leadership-Principal Certification Only

Non-degree seeking students who already hold valid teaching certification, a master's degree in an education-related field and who have completed at least two years of full-time teaching in an accredited school (by time of application) may opt for a program of coursework that will enable the student to meet requirements for certification as a school administrator (Principal-as-Instructional Leader) in the state of Texas.

Students in degree-seeking programs other than Educational Leadership who hold a master's degree from an accredited university in education or an education-related field, or who are earning a Master's or doctoral degree in an education-related field at TCU, may be admitted to the program for principal certification, as long as they have also completed at least two years of full-time teaching in an accredited school (by the time of application) and hold a valid teaching certificate.

The program is a 15-21 hour program, with the variation dependent on the content of the Master's degree and the time to completion of the practicum experience. Recommendation by TCU for certification to the State Board of Educator Certification for the Principal-as-Instructional Leader certificate requires: (1) successful completion of the program of study as approved by the advisor; (2) evidence of successful completion of Advancing Educational Leadership (AEL) and Texas Teacher Evaluation and Support System (T-TESS) training (via an Education Service Center); and (3) successful completion of the TExES 268 and PASL (368) state-required examinations. The following courses are required:

EDLE 60033	Community Engagement and Culturally Responsive Practice	3
	OR	
EDLE 70043	School & Community Contexts	3
EDLE 60043	Instructional Leadership A: Curriculum, Instruction, and Assessment	3
EDLE 60053	Instructional Leadership B: Supervision	3
EDLE 60063	Law and Ethics in Educational Leadership	3
	OR	
EDAD 70013	Legal and Social Environment of Education	3
EDLE 60093	Principal Practicum in Educational Leadership**	3
EDLE 60083	Data Use for Educational Leaders	3
	OR	
EDAD 70063	Data-Informed Decision-Making	3

*EDLE 60043 is required unless the student holds a Master's degree, earned within 10 years of application to the certification-only program, or is currently enrolled in a Master's or doctoral program at TCU that is in an area of emphasis directly related to PK-12 pedagogy (e.g.,

curriculum and instruction, assessment, mathematics education, social studies education, science education, literacy education, special education).

**1 semester (3.0 hours) of EDLE 60093 is required if state-required 160-hour practicum is completed wholly within the fall or spring semester; 2 semesters (6.0 hours) are required if the 160-hour practicum cannot be wholly completed within a single semester.

School Leadership-Superintendent Certification Only

Non-degree seeking students who already hold a conferred Master's degree in education or a related field, a valid principal's certificate (or an approved waiver for the principal's certificate issued by the Texas Education Agency) and who will have completed a minimum of three years of managerial experience by the end of the certification program, may apply for participation in the superintendent-certification program. Persons in the Ed.D. (EDLE, K-12 emphasis) or the PhD (EDLE, PK-12 emphasis) may also pursue the superintendent certificate, provided they apply and are accepted to the superintendent preparation program and complete the required coursework and experiences within their degree course sequence. NOTE: The superintendent certificate does not require a doctoral degree; persons who are degree-seeking, but who complete the program outlined below, may apply for and be recommended for the superintendent certificate before completion of the doctoral degree.

The program is an 21-24 hour program, with the variation dependent on the time to completion of the practicum experience. Persons seeking to apply to the superintendent certificate program must apply and meet admissions criteria, including (1) holding, at a minimum, a Master's degree in education or a related field; (2) holding, at a minimum, a valid principal certificate or the equivalent issued by another state (or, holding a waiver of the certificate granted by the Texas Education Agency at time of program application). Other materials required for submission for consideration for admission include a current resume, equity statement, video or live interview, transcripts of prior coursework, professional references, and a personal statement, in addition to completion of the online application.

Upon admission to superintendent certification, the following courses are required:

EDAD 70043	Educational Policy and Practice	3
	OR	
EDLE 60073	Education Policy Studies	3
EDAD 70033	Ethical and Moral Dimensions of Educational Leadership	3
EDLE 70043	School and Community Contexts	3
	OR	
EDLE 60033	Community Engagement and Culturally Responsive Practice	3
	OR	
EDLE 70053	Cultural Foundations in Educational Leadership	3
EDAD 70013	Legal and Social Environment of Education	3
	OR	
EDLE 60063	Law and Ethics in Educational Leadership	3
EDHE 70153	Organizational Behavior in Education Contexts	3
EDLE 70083	Issues and Trends in :Superintendency	3
EDLE 70090	Superintendent Practice in Educational Leadership*	3-6

*1 semester (3.0 hours) of EDLE 70090 is required if state-required 160-hour practicum is completed wholly within the fall or spring semester; 2 semesters (6.0 hours) are required if the 160-hour practicum cannot be wholly completed within a single semester.

Additionally, some state-required trainings or learning experiences may be embedded in courses or assigned external to coursework (e.g., dyslexia training; mental health/substance abuse/youth suicide; digital literacy). Evidence of successful completion of these are required for final recommendation of the candidate by TCU for the superintendent certificate.

Final recommendation by TCU for certification to the State Board of Educator Certificate for the Superintendent certificate requires: (1) successful completion of the program of study as approved by the advisor and in alignment with state requirements; (2) successful completion of the State of Texas required TExES examination(s); and (3) evidence that the candidate has completed at least three creditable years of managerial experience in a public school district (requirements for what such experience must include is noted in the Texas Education Code, Chapter 242.20).

Educational Leadership Programs

TCU's College of Education offers an Ed.D. in Educational Leadership, as well as a Ph.D. in Educational Studies with an emphasis in Educational Leadership (see "PhD in Educational Studies"). These Ed.D. programs prepare students to assume major leadership positions in a wide variety of education-related organizations by applying managerial skills and educational leadership in the field of education. The program is designed to prepare students to enter educational management in school systems; regional, state, or federal governments; research institutions; private foundations; universities; or private sector companies. PhD programs prepare students for tenure-track work or other careers that have a heightened focus on educational research.

The program:

- Develops leaders who understand the operations and leadership of organizations.
- Develops leaders prepared to take advantage of increasing opportunities for creating new educational institutions and systems.
- Develops educational leaders who operate with a global perspective in a diverse and rapidly evolving professional field.
- Develops educational leaders who operate with clear-cut ethical and moral commitments for the education of all students.
- Develops educational leaders able to envision and create new settings now possible through the availability of information technologies.

There are five options to the Educational Leadership Program.

Option 1: The Ed.D. in Educational Leadership: Schools and Districts offers high-quality instruction preparing students for leadership roles in K-12 education. For those interested, this program also provides students the background necessary to complete superintendent certification in Texas.

Option 2: The Ed.D. in Higher Education Leadership is designed to prepare students to assume leadership positions in higher education institutions.

Option 3: The Ph.D. in Educational Studies (Educational Leadership emphasis) is designed to prepare students who aspire to professional positions that involve a focus on research, such as work with policy organizations, think tanks, or tenure-track positions in institutions of higher education.

Option 4: Together with the M.J. Neeley School of Business, the College of Education has created a unique option: a comprehensive program that integrates a Master of Business Administration (MBA) with a doctorate in educational leadership (Ed.D.) or higher education leadership (Ed.D.), effectively combining the best of business and educational disciplines.

Option 5: Together with the M.J. Neeley School of Business, the College of Education has created a unique option: a comprehensive program that integrates a Masters of Business Administration (MBA) with a PhD in Educational Studies with an Educational Leadership emphasis, effectively combining the best of business and educational disciplines. The MBA/PhD has advising plans for both PK-12 and higher education contexts, and prepares those individuals for whom research will be a significant component of professional life.

Educational Leadership, MBA/Ed.D.

Admission and Degree Requirements

Candidates must be admitted to both TCU's MBA Program and the Ed.D. Program in the College of Education. (see admissions and program descriptions pertaining to the EdD programs in PK-12 and Higher Education emphases in those sections of the graduate handbook). The Educational Leadership doctorate is a 54-hour program.

In the event a student elects to complete the MBA without continuing into the doctoral program, he/she must meet all remaining requirements for the MBA. If a student's work is unsatisfactory in MBA courses, and he/she is not permitted to continue, he/she shall not be permitted to commence or continue the Ed.D. program unless the student already holds a Master's degree, has already begun doctoral coursework, and is satisfactorily completing work as evidenced by a 3.5 or better GPA in completed doctoral coursework at the time the MBA is discontinued.

Of particular note, applicants who wish to seek certification as a public school principal or superintendent in Texas in conjunction with the MBA/EdD must already hold a Master's degree in education or a related field, and must have completed at least two years of full-time teaching at an accredited school prior to beginning doctoral coursework (and must have completed at least two years of full-time teaching, as well as met other coursework and practicum requirements, by the time certification is sought). Applicants who seek superintendent certification must either hold a valid principal's certificate or must hold a TEA waiver of the principal certification requirement at time of application. Applicants who do not already hold a Master's degree at time of application to the MBA/EdD are not eligible to seek principal or superintendent certification through TCU's preparation programs in concert with the MBA/EdD programs.

Students interested in applying to the program should abide by the deadlines stated on the website.

Educational Leadership, Ed.D.

Program Mission and Guiding Principles:

The mission of the TCU Educational Leadership doctoral program is to develop leaders who make a difference for the common good. The program serves professionals from within the PK-12 educational context who want to develop the breadth of knowledge and skills needed to succeed in advanced leadership roles within the PK-12 context as well as professionals who work externally to PK-12 but in education-related endeavors (business/corporate training, policy organizations, or nongovernmental organizations). The program weaves several emphases throughout coursework. These program elements support the student to:

- Develop and practice reflective, ethical, and justice-oriented leadership;
- Collaborate with persons from diverse backgrounds, roles, and perspectives in the service of systemic improvements toward excellence and equity;
- Communicate effectively via multiple modes (e.g., oral, written, via technology)
- Analyze, define, and respond to complex problems; and
- Anticipate and respond to dynamic environments

Application Procedures and Deadlines

An applicant must have a master's degree in education or related field. Applicants must present a strong academic record (GPA of 3.0 in either the last 60 hours of college credit or undergraduate GPA). Applicants to the EDLE EdD must submit transcripts of all prior collegiate work, a statement explaining the applicant's interest in earning the EdD and how the applicant sees the EdD fitting with personal and professional goals, an equity statement, a current resume, and must complete either a video or in-person interview.

Additionally, applicants who wish to seek certification as a public school principal in Texas in conjunction with the EdD must have completed at least two years of full-time teaching at an accredited school and must hold a valid teaching certificate at the time of application to the EdD program. Applicants who wish to pursue principal certification in conjunction with the EdD must also complete two to three courses in addition to the 54-hour EdD program (as certification-only seeking

students, or in connection with another program at TCU) prior to beginning coursework with the doctoral cohort. These courses are:

EDLE 60043 (Instructional Supervision-Curriculum, Instruction, and Assessment)*

EDLE 60053 (Instructional Supervision-Supervision, Evaluation, and Coaching)

EDLE 60083 (Data Use for Educational Leaders)

*EDLE 60043 may be waived as a prerequisite for those seeking principal certification in conjunction with the EdD in the event the applicant holds a Master's degree, earned within 10 years of application to the EdD program, that is in an area of emphasis directly related to PK-12 pedagogy (e.g., curriculum and instruction, assessment, mathematics education, social studies education, science education, literacy education, special education).

Applicants seeking superintendent certification must hold a principal certification at the time the superintendent certificate is sought in addition to meeting coursework and practicum requirements, or must hold a TEA waiver of the principal certification requirement at time of application. To be recommended for the superintendent certificate, persons who complete the certification portion of the program must also have at least three years of managerial experience by the time they seek certification.

Application Deadlines

Students interested in applying to the program should abide by the deadlines stated on the website.

Ed.D. Degree Requirements

The Ed.D. in Educational Leadership is a 54-hour degree aimed at enabling leaders in PK-12 contexts to successfully engage in a range of professional endeavors. The program of study is outlined in the following section. Students are required to take a suitable number and variety of graduate courses and field-based experiences to prepare for the completion of the capstone project or dissertation-in-practice. The Ed.D. encompasses a minimum of 54 hours of core courses, fieldwork and directed capstone or dissertation-in-practice, though additional courses may be needed if prerequisites have not been met or if a student requires more than 15 credit hours to complete the capstone or dissertation-in practice.

Application of Transfer Coursework:

As the Ed.D. in Educational Leadership (PK-12) is a cohort-based, highly structured model, no transfer coursework will be accepted toward the 54-hours required of program enrollees.

Texas Principal-as-Instructional Leader or Superintendent Certificates

Students seeking principal or superintendent certification in conjunction with the EdD in Educational Leadership must ensure they successfully complete the certification requirements as noted in the "certification-only" sections of this graduate catalog, and meet any prerequisite requirements associated with certification within the Ed.D. in Educational Leadership, in collaboration with their advisor.

Program of Study (PK-12 Contexts)

Students should use the approved program of study to guide course selection, with the assistance of the advisor. Each student will work with an assigned advisor to plan and, where needed, adjust the plan of study to meet both student needs and programmatic requirements.

Course of Study: Core Content (21 hours)

EDAD 70003	Foundational Readings in Educational Administration	3
EDAD 70013	Legal and Social Environment of Education	3
	OR	
EDLE 60063	Law and Ethics in Educational Leadership	3
EDAD 70033	Ethics & Equity-Oriented Leadership	3
EDAD 70043	Educational Policy and School Finance	3

EDHE 70153	Organizational Behavior in Education Contexts	3
EDLE 70043	School and Community Contexts	3
	OR	
EDLE 60033	Community Engagement and Culturally Responsive Practice	3
EDLE 70053	Cultural Foundations in Educational Leadership	3

Course of Study: Inquiry (9 hours)

EDUC 70953	Research in Education	3
EDUC 70983	Introduction to Quantitative Research	3
EDUC 70923	Introduction to Applied Qualitative Methods	3
	OR	
EDUC 70823	Inquiry Seminar: Mixed Methods	3

Course of Study: Certification/Practicum/Internship (9 hours)

EDLE 70083	Issues and Trends in :Superintendency	3
EDLE 60093	Principal Practicum in Educational Leadership (Semester 2)	3
	OR	
EDLE 70090	Superintendent Practice in Educational Leadership	3-6
	OR	
EDAD 70200	Internship in Educational Administration	1-6
EDLE 60093	Principal Practicum in Educational Leadership A	3
	OR	
EDLE 70090	Superintendent Practice in Educational Leadership	3-6
	OR	
EDAD 70200	Internship in Educational Administration	1.00-6.00

For non-certification seeking students additional coursework may be elected in lieu of internship hours.

Course of Study: Capstone/Dissertation (15 hours)

EDAD 70073	Capstone/Dissertation Seminar A	
EDAD 70073	Capstone/Dissertaton Seminar B	
EDAD 70073	Capstone/Dissertation Seminar C	
EDAD 70073	Capstone/Dissertation Seminar D	
EDAD 90770	Capstone Project (3 total with Chair)	3
	OR	
EDUC 90980	Dissertation	1-6
EDUC 90990	Dissertation	1-6

While most students will complete the capstone or dissertation-in-practice at the end of year 3, and students who have not completed the Capstone must continue to enroll in 1 hour of EDAD 90770 or EDUC 90990 as appropriate with their chair through completion of the degree.

Process for Advancement to Candidacy

Students advance to candidacy upon successful proposal of the capstone or dissertation-in-practice to the committee.

Dissertation (or Capstone) Research

Students complete their proposed (and accepted) plan for research, compose the capstone or dissertation-in-practice, and defend the work in a final oral examination. A minimum of 15 hours of capstone or

dissertation (including EDAD 70073 and either EDAD 90770 or EDUC 90990) are required.

Details and forms related to the process and requirements are in the Graduate Handbook for Educational Leadership Programs and on the College of Education website.

Program of Study (Higher Education Contexts)

The Ed.D. in Higher Education Leadership is designed to prepare students for leadership roles in a variety of higher education institutional settings. The program provides a professional degree to improve the practice of those engaged in administrative functions in higher education.

The doctorate of Educational Leadership in Higher Education:

- Is a 54-hour program combining foundational and inquiry courses, and opportunities for specialization (community college leadership or collegiate athletics administration)
- Delivers coursework through a cohort-based weekend format model
- Provides a structured curriculum and dissertation supports, allowing students to complete EdD requirements in 3-years
- Takes advantage of TCU's history as a sectarian institution to include value based and ethical leadership concepts as part of the curriculum

The Higher Education Leadership program prepares students to assume major leadership roles in higher education institutions. The program:

- Prepares students for positions such as presidents, vice-presidents, deans and department heads.
- Develops educational leaders who understand organizations and the effective leadership of organizations.
- Develops educational leaders prepared to take advantage of increasing opportunities for creating new educational institutions and systems.
- Develops leaders who understand the relationship of higher education to community settings.
- Develops educational leaders who operate with a global perspective in a diverse and rapidly evolving professional field.
- Develops educational leaders who reflect clear ethical and moral commitments for the education of students.
- Develops educational leaders able to envision and create new settings now possible through the availability of information technologies.

Admission

To be admitted to the doctoral program in Higher Education Leadership, a student must:

- Apply to TCU Graduate School
- Demonstrate a strong academic record
- Have a Master's Degree in education or an appropriate field from a regionally accredited institution
- Provide a written statement that documents evidence that leadership skills and experiences, and explains motivations and goals for pursuing the Ed.D. degree
- Complete an interview with College of Education faculty
- Complete a reference referral form and provide 3 letters of reference, with at least one letter from an academic reference
- Show three years of professional experience, preferred
- International students must meet TCU International Admission requirements

Program of Study

A program of study is both a guideline for the student and the student's Doctoral Advisory Committee and a document for ongoing evaluation and assessment. Each student will create a Doctoral Advisory Committee (DAC). The DAC will be created using the criteria established by the College of Education in the "Guidelines for Project/Dissertation

Committee Service" document. The EdD in Higher Education Leadership requires 54 hours of post-matriculation course work.

Foundations (18 hours)

EDAD 70003	Foundational Readings in Educational Administration	3
EDAD 70033	Ethical and Moral Dimensions of Educational Leadership	3
EDHE 60133	Legal Issues in Higher Education	3
EDLE 70053	Cultural Foundations in Educational Leadership	3
EDHE 70263	Finance in Higher Education	3
EDHE 70153	Organizational Behavior in Education Contexts	3

Inquiry (9-hours)

EDUC 70953	Research in Education	3
EDUC 70963	Qualitative Inquiry	3
EDUC 70983	Introduction to Quantitative Research	3

Specialization (12 hours)

EDHE 70133	History and Philosophy of Higher Education	3
EDHE 70143	Advanced Student Development Theory: Impact of College on Students	3
EDHE 78213	Human Resource Management in Higher Education	3
EDHE 70233	Comparative Higher Education	3
EDAD 60133	Trends and Issues in Educational Administration	3

EDHE 70233 would be open to any student in the College of Education and can count towards the Ed.D. in Higher Education Leadership (general leadership track), replacing one of the courses listed above during the summer in which the student enrolls in EDHE 70233.

Capstone Project (15 hours)

EDAD 70073	Capstone/Dissertation Seminar	3
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*EDAD 70073 repeated for credit

Educational Studies: Ph.D.

Educational Studies: Curriculum Studies, Ph.D.

The Ph.D. in Educational Studies: Curriculum Studies is a distinctive program that prepares students who are qualified to engage in high-quality original scholarships, to assume faculty positions in curriculum studies at the college and university levels, to take leadership positions at district and state-level education agencies, to assume curriculum positions in informal learning environments and to take on positions of influence in educational advocacy.

Admission

For admission into the program, an applicant must have a master's degree in an education-related field. Applicants must present a strong academic record, acceptable GRE scores within the past five years, a writing sample (15-20 pages, exclusive of notes and works cited) that demonstrates appropriate academic writing skills needed for success in a graduate program and three letters of recommendation. Applicants will be interviewed as part of the selection process.

Degree Requirements

As a research degree, the Ph.D. is awarded for demonstrating competence in research by successfully defending a doctoral dissertation. The emphasis is on developing knowledge and skills in curriculum studies and the ability to conduct original research. A general

program of study is outlined below. Students are required to take a suitable number and variety of graduate courses and research apprenticeships to prepare them for the qualifying examination and the dissertation. The program requires 60 hours after acceptance into the program. The Ph.D. in Educational Studies: Curriculum Studies includes the following requirements.

I. Courses and Requirements

Curriculum Studies Content (18 hours)

EDUC 60833	Curriculum History in the United States	3
EDUC 60843	Contemporary Curriculum Theory	3
EDUC 70813	Curriculum Studies Seminar	3
EDUC 70823	Inquiry Seminar	3

EDUC 70813 and EDUC 70823 may be repeated with new topics for 9 credit hours.

Portfolio

Students develop an academic portfolio throughout their course of study. Student and program advisors determine course study (electives, research courses, etc.) during portfolio conferences held before completion of the second semester and qualifying comprehensive examination. Students may use the portfolio for New Media graduate certificate.

Electives (15 hours)

Students work with program advisors to determine electives that support student's goals and interests. Students may use elective hours to take additional curriculum studies and inquiry seminars, pursue graduate certificate(s) (e.g. Women & Gender Studies) and/or develop an area of emphasis.

Research (12 hours)

In addition to research courses, which may include the following among others, students consult with program advisors to identify and join at least one research community during their first year in the program and continue participation in research projects throughout their doctoral studies.

EDUC 60043	Action Research	3
EDUC 60823	Educational Program Evaluation & Research	3
EDUC 70953	Research in Education	3
EDUC 70960	Apprenticeship in Research	1-3
EDUC 70963	Qualitative Inquiry	3
EDUC 70973	Advanced Qualitative Inquiry	3
EDUC 70983	Introduction to Quantitative Research	3

EDUC 70960: 1-3 hours may be repeated

II. University Teaching (3 hours)

Students apprentice with faculty in teaching at least one course before taking on more advanced teaching responsibilities.

EDUC 70943	Apprenticeship in Teaching	3
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III. Comprehensive Qualifying Examination

Students take a qualifying examination to demonstrate their knowledge and abilities in curriculum studies. Upon the successful completion of the qualifying examination, students are admitted to candidacy.

IV. Dissertation Research

Students propose and conduct original research, write a dissertation and defend the dissertation in a final oral examination with at least 12 dissertation hours.

EDUC 90980	Dissertation	1-6
EDUC 90990	Dissertation	1-6

Educational Studies: Counseling and Counselor Education Ph.D.

The Ph.D. in Educational Studies: Counseling and Counselor Education is designed to prepare advanced professional practitioners in counseling, counselor education and systems intervention with particular emphases on strength-based approaches to work with diverse populations and settings. Its purpose is to provide quality doctoral training for future educators, researchers and clinicians who wish to emphasize clinical applications that promote the health, quality of life and well-being of children, adolescents, young adults and their families. The counseling theory and counselor education courses are designed to increase understanding of current research and practice in the field. The professional competencies and counselor education courses are designed to expose students to supervisory and teaching experiences to help the student become proficient in social science research methodologies and to best prepare the student for original research and career goals. Finally, electives taught in education, communication, pastoral counseling, health and kinesiology, psychology and other disciplines will be chosen with the advisory committee. These will offer each doctoral student a personal specialization area for professional development and research. The college/department in which courses are offered will determine the readiness of students to take courses.

The Ph.D. in Educational Studies: Counseling and Counselor Education prepares students to be qualified to engage in high-quality original scholarship. Recipients will have the knowledge and skills to assume college faculty positions with responsibility in teaching graduate counseling courses, participate in counseling and counselor education research, and assume leadership positions in counseling and counselor education within schools and other organizations.

Admission

For admission into the program, an applicant must have a master's degree in a clinical mental health discipline and be eligible for licensure or certification as a mental health professional in the state of Texas. These disciplines include (but are not limited to) counseling, marriage and family therapy, psychology/psychological associate, nursing and social work. Each applicant must show evidence of knowledge and skill in human development, helping relationships, assessment, research and evaluation, and clinical experience in applied settings. Also, the applicant must present a strong academic record, a writing sample (15-20 pages, exclusive of notes and works cited) that demonstrates appropriate academic writing skills needed for success in a graduate program and three professional letters of recommendation. Students may be admitted who lack the prerequisites for some of the courses required in the program. In such cases, it will be necessary for the student to complete the prerequisites in addition to the requirements of the Ph.D. degree. A live interview is also required prior to admission.

Program of Study

A minimum of 51 credit hours post-matriculation is required for the degree.

Counseling Theory (15 hours)

The program is committed to providing students with coursework relevant to the research and practice of counseling. The counseling theory component is designed to create learning opportunities directly related to developing both theoretical and philosophical expertise in counseling and counselor education.

EDGU 70003	Advanced Human Systems	3
EDGU 70013	Language Systems	3
EDGU 70793	Strength-Based Theories: Assessment, Research, and Practice	3
EDGU 70043	Philosophical Underpinnings of Psychotherapy	3
EDGU 70383	Advanced Study in Counseling Theories and Techniques	3

Counselor Education (9 hours)

The College of Education is committed to the professional socialization of its doctoral students. EDGU 70033 Orientation and Ethical Practice in

Clinical Mental Health Counseling will introduce the students to the TCU professors, the program of study, the culture of education and professional societies, as well as ethical and legal aspects of counseling and counselor education. It must be taken within the first year upon entering the program. In addition, students will be required to take Teaching Helping Relationships and Teaching Counseling courses, which focus on developing classroom and leadership skills as students generate a personal teaching philosophy, as well as study and practice creativity. These courses are taught concurrently with master's-level counseling courses in the college so students have multiple opportunities to teach, lead and mentor under faculty supervision.

EDGU 70023	Teaching Helping Relationships	3
EDGU 70143	Teaching Counseling	3
EDGU 70033	Legal, Ethical, and Professional Issues in Counseling	3

Research (12 hours)

The program and college are committed to helping doctoral students broadly understand research methodology while specializing in one or more methodologies. Students take the equivalent of 12 hours of research coursework as approved by the student's advisory committee. Courses may include (but are not limited to):

EDUC 70963	Qualitative Inquiry	3
EDUC 70973	Advanced Qualitative Inquiry	3
EDUC 60823	Educational Program Evaluation & Research	3
	Advanced statistics courses in education, psychology, kinesiology or other programs	

Professional Competencies (6 hours)

The program is committed to establishing authentic supervisory learning opportunities for students. Because the program is designed for those who wish to pursue a career in academic, administrative and/or supervisory positions, students will be expected to complete practicum experiences that will prepare them for such positions. The program will have a unique focus on supervisor and educator development. Practicum and classroom experiences that focus on supervisory skill development, program evaluation and other advanced skills will be required for all students.

EDGU 70223	Supervision in Counseling	3
EDGU 70323	Advanced Group Leadership	3

Electives (9 hours)

To create a program that is sensitive to student career goals, elective courses will be selected by each student's advisory committee. Students seeking an academic or research career will have different coursework needs than those who wish to work as school district supervisors or administrators. Up to 9 credits of masters-level specialty course-work that enhances the student's theoretical background, clinical skills or research interest may be transferred.

Qualifying Examination

The qualifying examination is taken at the end of the coursework and prior to beginning work on the dissertation. The purpose of the qualifying examination is to assess the student's readiness to begin dissertation research. The qualifying examination requires students to demonstrate their ability to critically discuss theory, research and practice in the field of counseling and counselor education. The exams consist of a series of questions developed by the student's advisory committee. These questions are designed for two purposes: 1) to examine the student's knowledge of a body of literature in depth and 2) to examine the student's breadth of understanding of the field of counseling and counselor education. The qualifying examination consists of two parts: a written examination and an oral examination. All committee members will read and give feedback to the student on the written product. When all committee members are satisfied with the quality of the written product, an oral examination will be scheduled. The student's committee will determine by consensus if he/she 1) passed the examination, 2) failed the examination or 3) passed with conditions, which the student will need to meet prior to passing. A student is limited to three attempts to pass the qualifying examination.

Dissertation (6 hours)

The College of Education is committed to helping students establish their own research interests and agenda. To this end, the students will work with a committee of faculty to propose a research study, conduct the study and defend the results of the study. All students will take a minimum of six hours of dissertation proposal and research, but some students may require more than six hours, depending on the number of semesters that are needed for full completion of all requirements. Students may not begin dissertation data collection without the approval of the student's full advisory committee.

EDUC 90980	Dissertation	1-6
EDUC 90990	Dissertation	1-6

Sequence of Experiences

1. Completion of all non-dissertation coursework
2. Completion of the qualifying exam
3. Completion of original research and successful defense of the resulting dissertation

Educational Studies: Educational Leadership MBA/Ph.D.

The MBA/Ph.D. in Educational Studies: Educational Leadership prepares students to assume major leadership and research-intensive positions in a wide variety of education-related organizations, including institutions of higher education, research organizations/think tanks, private foundations and nonprofit organizations, school systems, regional, state, or federal government, or private sector companies. Degree recipients have the knowledge and skills needed to assume positions as tenure-track college faculty tasked with engaging in research and with teaching graduate education courses, as experts with policy organizations responsible for producing or overseeing education-related research. And as high-level K-12 or higher education-related organizations with oversight and/or responsibility for research-oriented functions. Within the degree, students may opt to focus doctoral-level course selections around a concentration in PK-12 or higher education contexts. The MBA/Ph.D. in Educational Studies: Educational Leadership requires a minimum of 66 hours of doctoral-level coursework (including fieldwork and dissertation) in addition to MBA requirements.

Admission

For admission into the MBA/PhD program, an applicant must be admitted into both the Neeley MBA program and the College of Education Educational Studies PhD (Educational Leadership emphasis). Applicants must present a strong academic record (GPA of 3.0 in either the last 60 hours of college credit or undergraduate GPA). Applicants to the MBA/PhD program must submit transcripts of all prior collegiate work, a statement explaining the applicant's interest in earning the MBA/PhD and how the applicant sees the MBA/PhD fitting with personal and professional goals, an equity statement, a current resume, and a writing sample, and must complete either a video or in-person interview.

Additionally, applicants who wish to seek certification as a public school principal or superintendent in Texas in conjunction with the MBA/PhD must already hold a Master's degree in education or a related field, and must have completed at least two years of full-time teaching at an accredited school prior to beginning doctoral coursework (and must have completed at least two years of full-time teaching, as well as met other coursework and practicum requirements, by the time certification is sought). Applicants who seek superintendent certification must either hold a valid principal's certificate or must hold a TEA waiver of the principal certification requirement at time of application.

Applicants who do not already hold a Master's degree at time of application to the MBA/PhD may not seek principal or superintendent certification through TCU's preparation programs in concert with the MBA/PhD programs.

Applicants to the MBA/PhD who do already hold a Master's degree in education or an education-related field, and who wish to pursue principal certification in conjunction with the MBA/PhD, must complete two to three courses in addition to the 66-hour PhD portion of the program (as non-degree seeking students, or in connection with another graduate program at TCU) prior to beginning coursework with a doctoral cohort. These courses are:

--EDLE 60043 (Instructional Supervision-Curriculum, Instruction, and Assessment)*

--EDLE 60053 (Instructional Supervision-Supervision, Evaluation, and Coaching)

--EDLE 60083 (Data Use for Educational Leaders)

*EDLE 60043 may be waived as a prerequisite for those seeking principal certification in conjunction with the PhD in the event the applicant holds a Master's degree, earned within 10 years of application to the PhD program, that is in an area of emphasis directly related to PK-12 pedagogy (e.g., curriculum and instruction, assessment, mathematics education, social studies education, science education, literacy education, special education).

Applicants who already hold a Master's degree and who are seeking superintendent certification in conjunction with the MBA/PhD must hold a valid principal certification at the time of application to the program, or must hold (and submit verification of) a TEA waiver of the principal certification requirement at time of application.

Applicants for the superintendent certificate must have accrued at least three years of principal or school-related managerial experience by the time application for superintendent certification is sought.

Students interested in applying to the program should abide by the deadlines stated on the website.

Program of Study

Degree Requirements-MBA

To successfully complete the MBA portion of their degree. Students must meet all core requirements listed below as well as complete the START Workshop or other designated orientation. In the event a student elects to complete the MBA without continuing into the doctoral program, he/she must meet all remaining requirements for the MBA (i.e., elective units in the School of Business). If a student's work is unsatisfactory in MBA courses, and he/she is not permitted to continue, he or she will not be permitted to commence the Ph.D. portion of the degree. Throughout the program, students must maintain a B average.

Full-Time MBA Curriculum

ACCT 60010	Financial Reporting	1.5
ACCT 60020	Accounting for Managerial Planning and Control	1.5
BUSI 60050	Global Environment of Business	1.5
BUSI 66100	Career Management and Professional Development	1.5
BUSI 60070	Business Simulation	1.5
FINA 60020	Managerial Economics	1.5
FINA 60010	Financial Management I	1.5
INSC 60010	Statistical Models	1.5
INSC 60020	Managing Operations and Processes	1.5
INSC 60600	Concepts in Supply Chain Management	1.5
MANA 60230	Legal Env of Business	1.5
MANA 60330	Engaging People	1.5
MANA 60340	Leading Teams and Orgs	1.5
MANA 60630	Strategic Management	1.5
MANA 60460	Business Ethics	1.5
MARK 60010	Marketing Management	1.5
Electives	Approved Electives	4.50

Professional Curriculum: MBA courses taught in the evening

ACCT 60010	Financial Reporting	1.5
ACCT 60020	Accounting for Managerial Planning and Control	1.5
BUSI 60050	Global Environment of Business	1.5

BUSI 60070	Business Simulation	1.5
FINA 60020	Managerial Economics	1.5
FINA 60013	Management of Financial Resources	3
INSC 60013	Data Analysis for Managerial Decisions	3
INSC 60020	Managing Operations and Processes	1.5
INSC 60040	Managing Information Technology	1.5
INSC 60050	Business Analytics	1.5
INSC 60600	Concepts in Supply Chain Management	1.5
MANA 60230	Legal Env of Business	1.5
MANA 60350	Essentials of Motivation	1.5
MANA 60670	Strategy Formulation	1.5
MANA 60680	Strategy Implementation	1.5
MANA 60460	Business Ethics	1.5
MARK 60010	Marketing Management	1.5
Electives	Approved Electives	4.50

Program of Study

Requirements: PhD in Educational Studies (Educational Leadership)

A minimum of 66 credit hours is required for the PhD portion of the MBA/PhD degree. Students work closely with their academic advisor to draw from courses in the College of Education and, if appropriate, from other areas on campus that relate to the students' area of inquiry. Students should use the approved program of study course selection, with the assistance of the advisor. Each student will work with an assigned advisor to plan and, where needed, adjust the plan of study to meet both student needs and programmatic requirements.

For both areas of emphasis (focus in PK-12 Contexts and Higher Education) requirements for the qualifying examination and dissertation are identical, as is the typical sequence of activities.

Qualifying Examination

The qualifying examination is taken when students have completed approximately 45 hours of doctoral coursework and prior to beginning work on the dissertation research. The purpose of the qualifying examination is to assess the student's readiness to begin dissertation research. The qualifying examination requires students to demonstrate their ability to critically discuss theory, research and practice as related to a topic within educational leadership. The exam consists of a series of questions developed by the student's qualifying exam panel. These questions are designed for two purposes: (1) to examine the student's knowledge of a body of literature in depth and (2) to examine the student's breadth of understanding of the field of educational leadership. The qualifying examination consists of two parts: a written examination and an oral examination. All committee members will read and give feedback to the student on the written product. The student's committee will determine by consensus if the student "passed"; "passed with conditions," which the student must meet prior to passing; "revise and resubmit" (necessitating major revision and/or actions prior to committee reconsideration; or "failed" the examination (necessitating a restart of the entire qualifying examination process). When all committee members are satisfied with the quality of the written product, an oral examination will be scheduled. In alignment with university policy, a doctoral student is limited to two attempts to pass the qualifying examination. Students may not move beyond [EDAD 70073](#), propose the dissertation, or enroll in further dissertation coursework until they have successfully passed the qualifying examination.

Dissertation (12 hours)

The College of Education is committed to helping students establish their own research interests and agenda. To this end, the students will work with a committee of faculty to propose a research study, conduct the study and defend the results of the study. All students will take a minimum of twelve hours of dissertation proposal and research (including [EDAD 70073](#) the capstone/dissertation seminar), but some students will have to take more than 12 hours. Depending on the number of semesters that are needed for full completion of all requirements. Students enroll in [EDUC 90980](#) until such time as the capstone/dissertation committee has approved the proposal, and [EDUC 90990](#) thereafter until a successful defense. Students may not begin

dissertation data collection without the approval of their full advisory committee and, as appropriate, the TCU Institutional Review Board.

Sequence of Experiences

1. Completion of a minimum of 45 hours of coursework
2. Completion of the qualifying examination (and remaining coursework)
3. Successful proposal of dissertation research
4. Completion of original research and successful defense of the resulting dissertation

While most students will complete the dissertation within the 12-hours noted here, others may require additional time, and students who need to take more than 12 credit hours must continue to enroll in 1-3 hours of [EDUC 90990](#) (Fall, Spring, and Summer terms) through the completion of the degree.

MBA/Ph.D. in Educational Studies: Educational Leadership (Focus in PK-12 Contexts)

Foundations (18 hours)

The program is committed to providing students with coursework that provides complex and in-depth context to the work of the educational leader, including a grounding in philosophical, historical, legal, ethical, and organizational influences.

EDAD 70003	Foundational Readings in Educational Administration	3
EDAD 70013	Legal and Social Environment of Education	3
EDAD 70033	Ethical and Moral Dimensions of Educational Leadership	3
EDAD 70043	Educational Policy and School Finance	3
EDHE 70153	Organizational Behavior in Education Contexts	3
EDUC 60253	Historical and Philosophical Foundations of Education	3

Research (15 hours from the following, to include EDUC 70960)

The program and college are committed to helping doctoral students broadly understand research methodology while specializing in one or more methodologies. Students take a minimum of 15 hours of research coursework and work with a faculty member on a project toward presentation/publication in a scholarly venue in addition to completing the dissertation.

EDUC 60043	Action Research	3
EDUC 70953	Research in Education	3
EDUC 70823	Inquiry Seminar*	3
EDUC 70923	Introduction to Applied Qualitative Methods	3
EDUC 70960	Apprenticeship in Research	1-3
EDUC 70963	Qualitative Inquiry	3
EDUC 70973	Advanced Qualitative Inquiry	3
INSC 60010	Statistical Models	1.5
PSYC 50213	Interactive Data Analysis	3
PSYC 60623	Regression Analysis	3

*EDUC 70823 Inquiry Seminar may be repeated up to three times with a different emphasis with consent of advisor.

*INSC 60010 is a 1.5 hour course; students opting to take this course must exceed the 18 hour requirement in inquiry by taking another 3-hour course (i.e., will total 19.5 hours of inquiry), though they may take another 1.5 hour elective (in the specialization/electives section) to avoid exceeding the minimum of 66 hours for the degree plan.

Leadership Approaches, PK-12 Contexts (15 hours from among the following)

Additional course selections – aimed at equipping doctoral students with the in-depth and specialized knowledge needed to succeed in various areas of research and leadership – should be made with professional and research goals in mind; in some cases, this may mean

electing coursework outside of the College of Education, with permission of the advisor.

EDAD 70023	Theory and Management of Education Systems	3
EDAD 70063	Data-Informed Decision-Making	3
EDUC 70813	Curriculum Studies Seminar	3
EDLE 70083	Issues and Trends in :Superintendency	3
EDSP 60233	Understanding Exceptional Children and Youth At-Risk	3
EDUC 60013	Curriculum Theory	3
EDUC 60023	Analyzing Professional Literature and Writing Professionally	3
EDUC 60213	Psychology of Thinking and Learning	3
EDUC 60823	Educational Program Evaluation & Research	3
	Electives	3.00
	Electives	3.00

*EDUC 70813 may be taken up to three times with different emphasis with consent of advisor

Module IV: Practicum or Internship Experiences (6 hours)

The program is committed to establishing authentic supervisory learning opportunities for students, and to doing so in ways that align with certification requirements established by the Texas Education Agency. Certification-seeking students will enroll in Principal or Superintendent Practicum, as appropriate; those who are not seeking certification or who already hold certification will engage in internship hours to explore a facet of educational leadership or policymaking, or they may elect up to 6 hours of additional coursework.

EDLE 60093A	Principal Practicum A	3
	or	
EDLE 70093A	Superintendent Practicum A	3
	or	
EDAD 70200	Internship in Educational Administration	1-6
EDLE 60093B	Principal Practicum B	3
	or	
EDLE 70093B	Superintendent Practicum B	3
	or	
EDAD 70200	Internship in Educational Administration	1-6

*For non-certification seeking students, an additional 3-hour internship may be substituted for one elective in the specialization section with approval of the student's advisor for a maximum of 9 hours of internship.

Module IV: Practicum or Internship Experiences (6 hours)

EDAD 70073	Capstone/Dissertation Seminar	3
EDUC 90980	Dissertation	1-6
EDUC 90990	Dissertation	1-6

*Comprehensive exams must be completed prior to enrollment in EDAD 70073; in rare cases, a student may be allowed to enroll in EDAD 70073 while completing the comprehensive exam, but in no case will a final grade be assigned in EDAD 70073 until successful completion of the comprehensive exam.

Ph.D. in Educational Studies: Educational Leadership (Focus in Higher Education)

Foundations (18 hours)

The program is committed to providing students with coursework that provides complex and in-depth context to the work of the educational leader, including a grounding in philosophical, historical, legal, ethical, and organizational influences.

EDAD 70003	Foundational Readings in Educational Administration	3
EDAD 70033	Ethical and Moral Dimensions of Educational Leadership	3
EDHE 60133	Legal Issues in Higher Education	3
EDHE 70133	History and Philosophy of Higher Education	3
EDHE 70143	Advanced Student Development Theory: Impact of College on Students	3
EDHE 70153	Organizational Behavior in Education Contexts	3

Research (15 hours from the following)

The program and college are committed to helping doctoral students broadly understand research methodology while specializing in one or more methodologies. Students take a minimum of 15 hours of research coursework and work with a faculty member on a project toward presentation/publication in a scholarly venue in addition to completing the dissertation.

EDUC 60043	Action Research	3
EDUC 70953	Research in Education	3
EDUC 70823	Inquiry Seminar	3
EDUC 70960	Apprenticeship in Research	1-3
EDUC 70923	Introduction to Applied Qualitative Methods	3
EDUC 70963	Qualitative Inquiry	3
EDUC 70973	Advanced Qualitative Inquiry	3
EDUC 70983	Introduction to Quantitative Research	3
INSC 60010	Statistical Models	1.5
PSYC 50213	Interactive Data Analysis	3
PSYC 60623	Regression Analysis	3

**EDUC 70823 Inquiry Seminar may be repeated up the three times with different emphasis with consent of advisor.*

**INSC 60010 is a 1.5 hour course; students opting to take this course must exceed the 18 hour requirement in inquiry by taking another 3-hour course (i.e., will total 19.5 hours of inquiry), though they may take another 1.5 hour elective (in the specialization/electives section) to avoid exceeding the minimum of 66 hours for the degree plan.*

Leadership and Approaches: Higher Education Contexts (21 hours from the following)

Additional course selections – aimed at equipping doctoral students with the in-depth and specialized knowledge needed to succeed in various areas of research and leadership – should be made with professional and research goals in mind; in some cases, this may mean electing coursework outside of the College of Education, with permission of the advisor.

EDAD 60133	Trends and Issues in Educational Administration	3
EDAD 70023	Theory and Management of Education Systems	3
EDAD 70043	Educational Policy and Practice	3

EDHE 60423	Introduction to Student Affairs	3
EDHE 70113	Academic Leadership and Governance in Higher Education	3
EDHE 70123	College President	3
EDHE 70163	The Small College	3
EDHE 70223	Intercollegiate Athletics in Higher Education	3
EDHE 70253	Assessment and Accreditation in Post-Secondary Education	3
EDHE 70263	Finance in Higher Education	3
EDHE 70633	Challenges in Higher Education: Student Affairs	3
EDUC 60213	Psychology of Thinking and Learning	3
EDUC 60823	Educational Program Evaluation & Research	3

**Students may enroll in 9-12 hours of graduate coursework at TCU outside of the College of Education with advisor approval.*

**EDAD 60133 may be taken up to twice for a total of 6 hours with different emphasis. Topics: Strategic Planning, Sustainability, Environmental Theory in Higher Education, Finance and Administration, Development in Higher Education.*

**EDHE 70233 Comparative Higher Education may be taken up to twice for a total of 6 hours with different emphasis. Topics: Great Britain, Central and South American, Europe and Asia.*

Dissertation (12 hours)

EDAD 70073	Capstone/Dissertation Seminar	3
EDUC 90980	Dissertation	1-6
EDUC 90990	Dissertation	1-6

**Comprehensive exams must be completed prior to enrollment in EDAD 70073; in rare cases, a student may be allowed to enroll in EDAD 70073 while completing the comprehensive exam, but in no case will a final grade be assigned in EDAD 70073 until successful completion of the comprehensive exam.*

Educational Studies: Educational Leadership Ph.D.

The Ph.D. in Educational Studies: Educational Leadership is a research-intensive 66-hour degree designed to equip graduates to engage in high-quality original scholarship. Degree recipients will have the knowledge and skills to assume positions as tenure-track college faculty tasked with engaging in research and with teaching graduate education courses, as experts with policy organizations responsible for producing or overseeing education-related research, and as high-level leaders in K-12 or high education-related organizations with oversight and/or responsibility for research oriented functions. Within the degree, students may opt to focus some course selections around a concentration in PK-12 leadership or higher education contexts. Students may also opt to work with an advisor to craft a program with PK-20 perspective.

The Ph.D. in Educational Studies: Educational Leadership requires a minimum of 66 hours beyond the master's degree. While the Ph.D. encompasses a minimum of 66 hours of coursework, including fieldwork and a dissertation, additional courses may be required if prerequisites have not been met.

Admission

For admission into the program, an applicant must hold a master's degree in educational leadership or a related field. Applicants must present a strong academic record (GPA of 3.0 in either the last 60 hours of college credit or undergraduate GPA). Applicants to the Educational Studies: Educational Leadership PhD program must submit transcripts of all prior collegiate work, a statement explaining the applicant's interest in earning the PhD and how the applicant sees the PhD fitting with personal and professional goals, an equity statement, a current resume, and a writing sample, and must complete either a video or in-person interview.

Additionally, applicants who wish to seek certification as a public school principal in Texas in conjunction with the PhD must have completed at

least two years of full-time teaching at an accredited school, and must hold a valid teaching certificate, at the time of application to the PhD program. Applicants who wish to pursue principal certification in conjunction with the PhD must also complete two to three courses in addition to the 66-hour PhD program (as non-degree seeking students, or in connection with another graduate program at TCU prior to beginning coursework with the doctoral cohort. These courses are:

--EDLE 60043 (Instructional Supervision-Curriculum, Instruction, and Assessment)*

--EDLE 60053 (Instructional Supervision-Supervision, Evaluation, and Coaching)

--EDLE 60083 (Data Use for Educational Leaders)

*EDLE 60043 may be waived as a prerequisite for those seeking principal certification in conjunction with the PhD in the event the applicant holds a Master's degree, earned within 10 years of application to the PhD program, that is in an area of emphasis directly related to PK-12 pedagogy (e.g., curriculum and instruction, assessment, mathematics education, social studies education, science education, literacy education, special education).

Applicants seeking superintendent certification in conjunction with the Educational Studies: Educational Leadership PhD must hold a valid principal certification at the time the superintendent certificate is sought in addition to meeting coursework and practicum requirements, or must hold a TEA waiver of the principal certification requirement at time of application.

Applicants for the superintendent certificate must have accrued at least three years of principal or school-related managerial experience by the time application for superintendent certification is sought

Program of Study

A minimum of 66 credit hours is required for the degree. Students work closely with their academic advisor to draw from courses in the College of Education and, if appropriate, from other areas on campus that relate to the students' area of inquiry. Students should use the approved program of study course selection, with the assistance of the advisor. Each student will work with an assigned advisor to plan and, where needed, adjust the plan of study to meet both student needs and programmatic requirements.

For both areas of emphasis (Focus in PK-12 Contexts and Higher Education) requirements for the qualifying examination and dissertation are identical, as is the typical sequence of activities.

Qualifying Examination

The qualifying examination is taken when students have completed approximately 45 hours of coursework and prior to beginning work on the dissertation research. The purpose of the qualifying examination is to assess the student's readiness to begin dissertation research. The qualifying examination requires students to demonstrate their ability to critically discuss theory, research and practice as related to a topic within educational leadership. The exam consists of a series of questions developed by the student's qualifying exam panel. These questions are designed for two purposes: (1) to examine the student's knowledge of a body of literature in depth and (2) to examine the student's breadth of understanding of the field of educational leadership. The qualifying examination consists of two parts: a written examination and an oral examination. All committee members will read and give feedback to the student on the written product. The student's committee will determine by consensus if the student "passed"; "passed with conditions," which the student must meet prior to passing; "revise and resubmit" (necessitating major revisions and/or actions prior to committee reconsideration); or "failed" the examination (necessitating a restart of the entire qualifying exam process). When all committee members are satisfied with the quality of the written product, an oral examination will be scheduled. In alignment with university policy, a doctoral student is limited to two attempts to pass the qualifying examination. Students may not move beyond EDAD 70073, propose the dissertation, or enroll in further dissertation coursework until they have successfully passed the qualifying examination.

Dissertation (12 hours)

The College of Education is committed to helping students establish their own research interests and agenda. To this end, the students will work with a committee of faculty to propose a research study, conduct the study and defend the results of the study. All students will take a

minimum of twelve hours of dissertation proposal and research (including EDAD 70073 the Capstone/Dissertation Seminar), but some students will have to take more than 12 hours, depending on the number of semesters that are needed for full completion of all requirements. Students enroll in EDUC 90980 until such time as the dissertation committee has approved the proposal, and EDUC 90990 thereafter until a successful defense. Students may not begin dissertation data collection without the approval of their full advisory committee and, as appropriate, the TCU Institutional Review Board.

Sequence of Experiences

1. Completion of a minimum of 45 hours of coursework
2. Completion of the qualifying examination (and remaining coursework)
3. Successful proposal of dissertation research
4. Completion of original research and successful defense of the resulting dissertation

While most students will complete the dissertation within the 12-hours noted here, others may require additional time, and students who need to take more than 12 credit hours must continue to enroll in 1-3 hours of EDUC 90990 (Fall, Spring, and Summer terms) through the completion of the degree.

Ph.D. in Educational Studies: Educational Leadership (Focus in PK-12 Contexts)

Foundations (18 hours)

The program is committed to providing students with coursework that provides complex and in-depth context to the work of the educational leader, including a grounding in philosophical, historical, legal, ethical, and organizational influences.

EDAD 70003	Foundational Readings in Educational Administration	3
EDAD 70013	Legal and Social Environment of Education	3
EDAD 70033	Ethical and Moral Dimensions of Educational Leadership	3
EDAD 70043	Educational Policy and Practice	3
EDHE 70153	Organizational Behavior in Education Contexts	3
EDUC 60253	Historical and Philosophical Foundations of Education	3

Research (15 hours from the following)

The program and college are committed to helping doctoral students broadly understand research methodology while specializing in one or more methodologies. Students take a minimum of 15 hours of research coursework and work with a faculty member on a project toward presentation/publication in a scholarly venue in addition to completing the dissertation.

*EDUC 70823 may be repeated up the three times with different emphasis with consent of advisor.

*INSC 60010 is a 1.5 hour course; students opting to take it must exceed the 18 hour requirement in inquiry by taking another 3-hour course (i.e., will total 19.5 hours of inquiry), although they may take another 1.5-hour elective (in the specialization/electives section) to avoid exceeding the minimum of 66 hours for the degree plan.

Leadership Approaches, PK-12 Contexts (15 hours from among the following)

Additional course selections – aimed at equipping doctoral students with the in-depth and specialized knowledge needed to succeed in various areas of research and leadership – should be made with professional and research goals in mind; in some cases, this may mean electing coursework outside of the College of Education, with permission of the advisor.

EDAD 70023	Theory and Management of Education Systems	3
EDAD 70063	Data-Informed Decision-Making	3
EDUC 70813	Curriculum Studies Seminar*	3
EDLE 70083	Issues and Trends in :Superintendency	3

EDSP 60233	Understanding Exceptional Children and Youth At-Risk	3	EDHE 70133	History and Philosophy of Higher Education	3
EDUC 60013	Curriculum Theory	3	EDHE 70143	Advanced Student Development Theory: Impact of College on Students	3
EDUC 60023	Analyzing Professional Literature and Writing Professionally	3	EDHE 70153	Organizational Behavior in Education Contexts	3
EDUC 60213	Psychology of Thinking and Learning	3			
EDUC 60823	Educational Program Evaluation & Research	3			
	Electives	3.00			
	Electives	3.00			

*EDUC 70813 may be taken up to three times with different emphasis with consent of advisor

Module IV: Practicum or Internship Experiences (6 hours)

The program is committed to establishing authentic supervisory learning opportunities for students, and to doing so in ways that align with certification requirements established by the Texas Education Agency. Certification-seeking students will enroll in Principal or Superintendent Practicum, as appropriate; those who are not seeking certification or who already hold certification will engage in internship hours to explore a facet of educational leadership or policymaking, or they may elect up to 6 hours of additional coursework.

EDLE 60093A	Principal Practicum A	3			
	OR				
EDLE 70093A	Superintendent Practicum A	3			
	OR				
EDAD 70200	Internship in Educational Administration	1-6			
EDLE 60093B	Principal Practicum B	3			
	OR				
EDLE 70093B	Superintendent Practicum B	3			
	OR				
EDAD 70200	Internship in Educational Administration	1-6			

*For non-certification seeking students, an additional 3-hour internship may be substituted for one elective in the specialization section with approval of the student's advisor for a maximum of 9 hours of internship.

Dissertation (12 hours)

EDAD 70073	Capstone/Doctoral Seminar	3			
EDUC 90980	Dissertation	1-6			
EDUC 90990	Dissertation	1-6			

*Comprehensive exams must be completed prior to enrollment in EDAD 70073; in rare cases, a student may be allowed to enroll in EDAD 70073 while completing the comprehensive exam, but in no case will a final grade be assigned in EDAD 70073 until successful completion of the comprehensive exam.

Ph.D. in Educational Studies: Educational Leadership (Focus in Higher Education)

Foundations (18 hours)

The program is committed to providing students with coursework that provides complex and in-depth context to the work of the educational leader, including a grounding in philosophical, historical, legal, ethical, and organizational influences.

EDAD 70003	Foundational Readings in Educational Administration	3			
EDAD 70033	Ethical and Moral Dimensions of Educational Leadership	3			
EDHE 60133	Legal Issues in Higher Education	3			

Research (15 hours from the following)

The program and college are committed to helping doctoral students broadly understand research methodology while specializing in one or more methodologies. Students take a minimum of 15 hours of research coursework and work with a faculty member on a project toward presentation/publication in a scholarly venue in addition to completing the dissertation.

EDUC 60043	Action Research	3			
EDUC 70953	Research in Education	3			
EDUC 70823	Inquiry Seminar	3			
EDUC 70960	Apprenticeship in Research	1-3			
EDUC 70923	Introduction to Applied Qualitative Methods	3			
EDUC 70963	Qualitative Inquiry	3			
EDUC 70973	Advanced Qualitative Inquiry	3			
EDUC 70983	Introduction to Quantitative Research	3			
INSC 60010	Statistical Models	1.5			
PSYC 50213	Interactive Data Analysis	3			
PSYC 60623	Regression Analysis	3			

*EDUC 70823 Inquiry Seminar may be repeated up the three times with different emphasis with consent of advisor.

*INSC 60010 is a 1.5 hour course; students opting to take this course must exceed the 18 hour requirement in inquiry by taking another 3-hour course (i.e., will total 19.5 hours of inquiry), though they may take another 1.5 hour elective (in the specialization/electives section) to avoid exceeding the minimum of 66 hours for the degree plan.

Leadership and Approaches: Higher Education Contexts (21 hours from the following)

Additional course selections – aimed at equipping doctoral students with the in-depth and specialized knowledge needed to succeed in various areas of research and leadership – should be made with professional and research goals in mind; in some cases, this may mean electing coursework outside of the College of Education, with permission of the advisor.

EDAD 60133	Trends and Issues in Educational Administration	3			
EDAD 70023	Theory and Management of Education Systems	3			
EDAD 70043	Educational Policy and Practice	3			
EDHE 60423	Introduction to Student Affairs	3			
EDHE 70113	Academic Leadership and Governance in Higher Education	3			
EDHE 70123	College President	3			
EDHE 70163	The Small College	3			
EDHE 70223	Intercollegiate Athletics in Higher Education	3			
EDHE 70233	Comparative Higher Education	3			
EDHE 70253	Assessment and Accreditation in Post-Secondary Education	3			
EDHE 70263	Finance in Higher Education	3			
EDHE 70633	Challenges in Higher Education: Student Affairs	3			

EDUC 60213	Psychology of Thinking and Learning	3
EDUC 60823	Educational Program Evaluation & Research	3
	Electives	3.00
	Electives	3.00

*Students may enroll in 9-12 hours of graduate coursework at TCU outside of the College of Education with advisor approval.

*EDAD 60133 may be taken up to twice for a total of 6 hours with different emphasis. Topics: Strategic Planning, Sustainability, Environmental Theory in Higher Education, Finance and Administration, Development in Higher Education.

*EDHE 70233 Comparative Higher Education may be taken up to twice for a total of 6 hours with different emphasis. Topics: Great Britain, Central and South American, Europe and Asia.

Dissertation (12 hours)

EDAD 70073	Capstone/Doctoral Seminar	3
EDUC 90980	Dissertation	1-6
EDUC 90990	Dissertation	1-6

*Comprehensive exams must be completed prior to enrollment in EDAD 70073; in rare cases, a student may be allowed to enroll in EDAD 70073 while completing the comprehensive exam, but in no case will a final grade be assigned in EDAD 70073 until successful completion of the comprehensive exam.

Educational Studies: Science Education Ph.D.

The Ph.D. in Educational Studies: Science Education prepares students who are qualified to engage in high-quality original scholarship, and to teach at higher education. Recipients are prepared to assume faculty positions in science education or the sciences at various higher educational institutions. They will also be ready to hold leadership positions at district and state-level education agencies.

Admission

For admission into the program, applicants must have a master's degree in a science, education, or a related field. Admission criteria include: a strong academic record, a vita, a cover letter explaining the reason and goals of pursuing a Ph.D. in science education, a writing sample (15-20 pages, exclusive of notes and works cited) that demonstrates appropriate academic writing skills needed for success in a graduate program, three letters of recommendation, and an interview.

This program requires students to hold extensive knowledge from two academic units: knowledge about science content, and knowledge about science education. Students who do not have 9 credits of master level science courses will be required to complete those hours (or the equivalent) as part of their degree. After considering all application materials, the admission committee will meet and decide whether a student is admitted unconditionally, admitted provisionally, or not admitted.

Degree Requirements

The Ph.D. in Science Education requires 56 credit hours. The following are degree requirements:

Courses

Science Education

Students will take EDSC 70011: Colloquium in Profession of Science Education for one hour in the first and second year (2 hours total), six science education courses (18 hours), and two other courses (6 hours) for the equivalent of 26 hours:

EDSC 60333	Theory and Pedagogy of Science Instruction	3
EDSC 60810	Seminar: Special Topics in Science Education	1-3

EDSC 60033	Academic Language Development in Science	3
EDSC 60053	Internship in Informal Settings	3
EDSC 70033	Scientific Inquiry and the Nature of Science	3
EDSC 70043	Science and Science Education in the Global Community	3
EDSC 70053	History and Philosophy of Science	3
EDSC 70073	Learning Progression in Science Education	3

Research

Research – Students take the equivalent of 15 hours of research coursework as approved by the advisor in the College of Education. All students take EDUC 70960: Apprenticeship in Research and four other research courses:

EDUC 60043	Action Research	3
EDUC 60823	Educational Program Evaluation & Research	3
EDUC 70953	Research in Education	3
EDUC 70963	Qualitative Inquiry	3
EDUC 70973	Advanced Qualitative Inquiry	3
EDUC 70983	Introduction to Quantitative Research	3
EDUC 70823	Inquiry Seminar	3

Science Content

Students, not having 9 hours of masters level science, take the equivalent of 9 hours of coursework that qualify for science content as approved by the advisor in the College of Education.

Qualifying Exam

The qualifying examination is taken when students have completed at least 32 total hours of coursework (of which 12 are science education courses) and prior to the dissertation. The purpose of the qualifying examination is to assess the student's readiness to begin dissertation research. Upon the successful completion of the qualifying examination, students are admitted to candidacy.

Dissertation Research

Students propose and conduct original research, write a dissertation and defend the dissertation in a final oral examination. Students enroll in EDUC 90980 until such time as the dissertation committee has approved the proposal, and EDUC 90990 thereafter until a successful defense. Students may not begin dissertation data collection without the approval of their full advisory committee and, as appropriate, the TCU Institutional Review Board. Six hours of dissertation are required.

EDUC 90980	Dissertation	1-6
EDUC 90990	Dissertation	1-6

Sequence of Experiences

1. Completion of a minimum hours of coursework as approved by advisor
2. Completion of the qualifying examination (and remaining coursework)
3. Successful proposal of dissertation research
4. Completion of original research and successful defense of the resulting dissertation.

Optional

Research community – Students will be encouraged to join a research community led by faculty as a way to engage in authentic research, professional presentation, and publication.

Teaching apprenticeship – For students with limited teaching experience, the apprenticeship provides an opportunity to focus on teaching.

EDUC 70943: Apprenticeship in Teaching will be available for students whose career path includes university teaching.

College of Fine Arts

The College of Fine Arts is comprised of the School of Art, the School for Classical & Contemporary Dance, The Department of Design, The Department of Fashion Merchandising, the School of Music and the Department of Theatre. The School of Art offers the M.A. in Art History and the M.F.A. in Studio Art. The School of Music offers the M.M. in Performance, Musicology, Theory, Composition, Conducting and Pedagogy; the M.M.E. in Music Education and Piano Pedagogy; the Artist Diploma in Performance; and the Doctor of Musical Arts in Performance, Pedagogy, Composition and Conducting.

College of Fine Arts faculty are dedicated teachers who combine strong academic training with years of professional experience in their disciplines, and pride themselves on the ability to convey to students the knowledge necessary for successful lives and careers in the 21st century. The college also hosts visiting faculty, guest artists and performers who interact with students throughout the year enriching the learning experience.

Resources available to students include numerous computer labs, lighting and sound systems, specialized libraries and conditioning equipment, galleries, art and dance studios, theaters, and performance halls. Importantly, College of Fine Arts programs enjoy close working relationships with the Kimbell Art Museum, the Fort Worth Symphony, Casa Mañana Theatre, and many other visual and performing arts institutions in the Dallas/Fort Worth metroplex.

Art History, MA

The School of Art offers the Master of Arts in Art History. This graduate program enables students to gain a deeper understanding of the history of art, its objects and its methods. An integral component of this program, which sets it apart from many others, is "the museum experience": the opportunity to study in art museums and work with museum professionals. Centering on the art object, the program allows students to expand their knowledge of the historical, stylistic and theoretical dimensions of the visual arts, while having the practical experience of working directly with art objects and in museums with professional staffs. Students participate in courses that utilize the resources of the Amon Carter Museum of American Art, the Modern Art Museum of Fort Worth and the Kimbell Art Museum, and serve internships in these and other art museums. Graduates are prepared to engage in work at the Ph.D. level and pursue careers in the teaching and art museum professions.

Program Prerequisites

In addition to meeting the minimum requirements for admission established by TCU, applicants will normally have completed 18 semester hours (six courses) in art history. The department will consider applications from qualified students in other fields. The TOEFL is required for foreign students and must be passed at the level set by the University. The application must include:

- A personal statement of no more than 250 words describing the applicant's academic and professional objectives
- A writing sample that demonstrates art history research skills, not to exceed 20 pages in length
- Three letters of recommendation

Degree Requirements

The program requires 30 hours of coursework plus six hours for the thesis. Upon approval of the faculty, entering students may transfer up to six hours of graduate study in art history earned prior to admittance. Required courses are:

ARHI 70003	Art Historical Methods, Theories and Issues	3
ARHI 70013	The Art Museum	3
ARHI 70100	Museum Seminar	3-9
ARHI 70983	Internship	3

ARHI 70990	Thesis	6
ARHI	Electives	12-18
	Total	36

Students are strongly encouraged to enroll in courses that reflect chronological and geographical diversity. Generally, a student may not earn more than three hours of graduate credit in coursework taken outside of the art history program.

Thesis Requirement

The thesis is to be fulfilled by a paper, or its equivalent, that demonstrates advanced research skills. The thesis should be the result of independent study, the revision and improvement of a seminar paper, or writing generated by the student's museum internship. In all cases, the topic must receive approval of the student's adviser. The thesis is overseen by two department faculty members in conjunction with an expert related to their field of study or a museum professional.

Language Requirement

Students are required to pass a reading proficiency examination in French, German, Italian, Spanish or another language approved by the faculty upon entering the program. The language examination is administered at the beginning of the fall or spring semester. Students have two options:

1. Translate two passages into English, one with the use of a dictionary and one without a dictionary. Each passage is no more than 250 words, and students are given 30 minutes to complete each portion of the exam.
2. Translate one text, with a dictionary, for 60 minutes.

Foreign language exams are administered to ensure that students can do art historical research in a foreign language. To this end, students are encouraged to possess a strong understanding of basic grammar and vocabulary, as well as important art historical terminology. Students whose basic knowledge of a language or mastery of basic terminology in art history appears to be unsatisfactory will not receive a passing grade on the exam. Language exams are graded on the following scale: high pass; pass; low pass; fail. The dictionary and non-dictionary portions of the exam are each graded separately. Students are required to pass both sections of the exam for the M.A. in Art History.

Students not passing the examination have two options:

Option 1: Retake and pass the examination at the beginning of the following semester.

Option 2: Enroll in two semesters (or an approved intensive equivalent) of second-year foreign language study and earn at least a "B" in both semesters (or their equivalent). This option must be completed by the beginning of the student's second year in the program.

Students who do not satisfy the language requirement by the beginning of their second year may be withdrawn from the program.

Oral Examination

Candidates for the M.A. are required to perform satisfactorily in a "capstone conversation."

Art Facilities

TCU maintains a number of facilities appropriate to the graduate art student. The School of Art is housed in one of the best designed and fully equipped facilities in the Southwest — the J. M. Moudy Building for the Visual Arts and Communication, designed by Kevin Roche, John Dinkeloo and Associates. The campus library houses a fine collection of art and art-related books, catalogues and journals. The Visual Resources Library holds an extensive collection of slides and digital images. The Art Galleries at TCU display international, national and regional art. Fort Worth's galleries and three major museums — the Modern Art Museum of Fort Worth, the Amon Carter Museum of American Art and the Kimbell Art Museum — are conveniently located near campus. Dallas, with its many galleries and excellent art museums, is 40 minutes away by car.

Art History Course Subcategories

ARHI 60123	American Art 1913 to the Present	3
ARHI 60133	Art of the Aztecs	3
ARHI 60143	Gender in Mesoamerican Art	3
ARHI 60153	The Aztec, Maya, and Olmec: Ancient Mesoamerican Art	3
ARHI 60163	Maya Art and Architecture	3
ARHI 60173	Early Italian Renaissance Art	3
ARHI 60183	High and Late Italian Renaissance Art	3
ARHI 60193	Northern Renaissance Painting: Van Eyck - Bruegel	3
ARHI 60203	17th Century Italian and Spanish Art	3
ARHI 60213	Drawing as Artistic Invention	3
ARHI 60333	Modern Art I: Romantic classicism to Impressionism	3
ARHI 60343	Modern Art II: Post-Impressionism to Surrealism	3
ARHI 60363	17th Century Flemish-Dutch Painting	3
ARHI 60500	Special Topics in Art History	3
ARHI 60603	Art Since 1945	3
ARHI 60613	Modern Architecture	3
ARHI 60623	History of the Print	3
ARHI 60823	History of Photography	3
ARHI 70023	Approaches to the Art Object	3

2nd Semester

Studio	4
ARST 60120: Grad Critique	3
ARHI 60500: Special Topics in Art History	3
Total	10

Second Year**1st Semester**

Studio	7
ARST 60903 or 60913: Seminar	3
Candidacy	
Total	10

2nd Semester

Studio	4
ARST 60120: Grad. Critique	3
Total	10

Third Year**1st Semester**

Studio	7
ARST 60120: Grad. Critique	3
Total	10

2nd Semester

Studio	9
ARST 60120: Grad. Critique	1
Total	10

Sequential Summary

First semester-request appointment of thesis committee; complete sequence of courses as approved by committee; complete any conditions contained in the admission letter. Second semester-complete sequence of courses as approved by committee. Third semester-complete sequence of courses as approved by committee; seek candidacy approval of committee. Fourth semester-complete sequence of courses as approved by committee. Fifth semester-request committee approval for preparation of Thesis Exhibition; complete sequence of courses approved by committee. Sixth semester-enroll for ARST 70991 Thesis Exhibition with major adviser as chair of committee; complete approved sequence of courses; and give careful attention to the special deadlines for graduating students. Students are advised to work at least two weeks ahead of deadlines to avoid disappointments caused by unexpected delays and schedule conflicts.

Thesis Committees

Students admitted to the program will be assigned a temporary adviser in their major or specialty area until an ultimate area of specialization is determined. In the first six weeks of study the student must request, in writing, that the director appoint a faculty member as a permanent major adviser. The student must confer with the proposed major adviser, and ensure that the faculty member is prepared to accept the student before requesting the director to appoint the major adviser. The student may also suggest the names of two other faculty members to serve on the thesis committee. The thesis committee is formally appointed on the recommendation of the director of the School of Art.

While every effort will be made to compose a committee of the student's first choices, it may be necessary to make changes in light of the student's field of concentration, and the load or commitments of the faculty members.

A student may request; in writing; to the director; that a change be made of the major adviser, or committee members, if the field of specialization changes, or if other justifiable reasons arise that would make the continuation of the existing committee contrary to the best interests of the student or the program.

The major adviser will be responsible for committee activities, for aiding the student in matters of the program and for informing the director, in writing, of the progress of the student.

Studio Art, MFA

Master of Fine Arts degree in Studio Art is available with areas of specialization in painting (including drawing), printmaking (including photography) and sculpture (including ceramics and new media).

TCU offers a three-year (60-semester-hour) program in art leading to the Master of Fine Arts degree. The faculty welcomes applicants whose work displays high quality, originality and sustained visual ideas.

Program Prerequisites

B.F.A., or equivalent, including concentration in intended specialty as evidenced by appropriate credit, an acceptable portfolio of work, a statement of professional experience and goals, and letters of recommendation. Admission to the program is based on:

- Portfolio acceptable to faculty committee
- Strong G.P.A. in undergraduate art courses
- Statement of professional experience and goals
- Good overall academic G.P.A.
- Three letters of recommendation

Degree Requirements

At least 60 semester hours must be earned, including no less than 12 in one area of specialization, and one hour in Thesis Exhibition. Six hours of Graduate Seminar, 12 hours of ARST 60120 and 6 hours of ARHI 60500: Special Topics in Art History are required. The remaining hours may be selected with the approval of the student's thesis committee, but with no more than 6 hours taken outside the School. Suggested Credit-Hour Distribution:

First Year**1st Semester**

Studio	4
ARST 60120: Grad. Critique	3
ARST 60903 or 60913: Seminar	3
Total	10

Colloquia

Colloquia are offered by the faculty of the School. These are intended to serve the specific purpose of establishing a personal and informal means of communication between students and faculty. The colloquia will feature presentations and discussions by on and off-campus speakers, faculty and members of the School of Art.

Candidacy

Admission to candidacy requires the approval of the thesis committee of each student. Admission to candidacy is expected no later than the end of the third semester of graduate study. Those who have not been admitted to candidacy by the beginning of their fourth semester may not earn additional credits. Those who wish additional elective credits may continue for a probationary period of not more than 12 semester hours as a "non-degree" student. Further enrollment will be permitted only if a student is re-admitted to the degree program.

Exhibition

Thesis exhibition enrollment requires admission to candidacy as a prerequisite. Actual installation of the thesis exhibition requires approval of the thesis committee. The written portion of the thesis exhibition also requires committee approval. This written portion, and the format of the permanent record of the thesis exhibition, will be determined by the committee. The written portion of the MFA requirement is to be called "Thesis Exhibition Statement" and will contain the following:

1. Title page;
2. Approval (signatures) page;
3. Index to the written portion;
4. Curriculum Vitae of the student;
5. List of illustrations (with title, media, dimensions);
6. Narration;
7. Illustrations in the form of photographs.

The narration (6 above) will take one of the following formats:

- Program notes of an explanatory nature from the student's work in the exhibition;
- Student's personal evaluation of the art forms contained in the exhibit;
- Contemporary or historical perspectives supporting the student's exhibit.

An electronic version of the Thesis Exhibition Statement will be submitted to the library. This copy will contain digital images of the work, which must include the title, date, media and dimensions of work.

Oral Examination

Candidates for the M.F.A. are required to perform satisfactorily in a final oral examination.

Research Assistantships

Research assistantships are offered each year to qualified candidates. Research assistants have an obligation of ten hours a week, which may include service to the school, teaching assistants, and teaching a class. They are given a full tuition waiver plus a stipend. Research assistants are assigned a studio space.

School of Music

School of Music Facilities

The TCU School of Music is housed in historic Ed Landreth Hall, the Mary D. and F. Howard Walsh Center for Performing Arts, Secrest-Wible Building, Foster Hall, Waits Hall, Jarvis Hall and the TCU Music Center. The Ed Landreth building includes the music offices and conference room; teaching studios; classrooms; a computer lab; practice and rehearsal facilities; and a 1,200-seat auditorium, once home to the Van Cliburn International Piano Competition. Instrumental resources include numerous upright and grand pianos, four pipe organs, two harpsichords, a clavichord and a collection of authentic Baroque instruments.

The Walsh Center is home to the unique 325-seat PepsiCo Recital Hall, which is well known for its unprecedented acoustical design. The Walsh Center also contains an instrumental rehearsal hall, a choral rehearsal hall, an electronic piano laboratory, piano teaching studios and piano practice rooms all furnished exclusively with Steinway pianos.

Located on the southeast side of the TCU campus, the Secrest-Wible Building serves the TCU Opera and contains a 100-seat rehearsal studio theatre, classroom and the John Large Vocal Arts Laboratory.

The third floor of Jarvis Hall contains teaching studios, two classrooms, the Upchurch Studio for Electro-Acoustic Music, the Music Education Resource Library and the School of Music student lounge.

The TCU Music Center is located in the Creative Commons on the east side of the TCU campus. The center houses band and orchestra rehearsal spaces, instructional facilities, faculty studios, and practice rooms. At the heart of the facility is the 700-seat state-of-the-art Van Cliburn Concert Hall at TCU.

In addition to these five buildings, practice rooms and teaching studios are located in Waits and Foster residence halls; and a large, comprehensive music library complete with recordings, reference books, texts, scores, and a listening room is housed in the Mary Coutts Burnett Library.

Musical Arts, DMA

The objective of the TCU Doctor of Musical Arts (DMA) degree in performance, piano pedagogy, composition or conducting is to develop the musician-scholar—one who displays a high level of mastery in a professional medium and is equipped with scholarly research skills. The program leading to the degree is designed to prepare musician-scholars for careers as creative artists and teachers at institutions of higher learning. Enrollment in the doctoral program is carefully monitored toward the goal of remaining highly selective and relatively small. Prospective DMA students must demonstrate the potential for both artistry and scholarship on the highest levels.

DMA Admission Requirements

To be admitted for study leading to the Doctor of Musical Arts, applicants must hold a master's degree in music or music education (or the equivalent) of at least 30 graduate credit hours from an accredited college, university, or comparable institution, and present a GPA of at least 3.0 for all previous graduate-level work (A = 4.0). Appropriate preparation for doctoral study will vary according to the major/degree plan chosen; therefore, prospective applicants should consult with faculty in their intended major area for specific requirements and expectations.

Applicants are required to submit the following:

1. Completed online application to TCU Graduate Studies and the School of Music
2. Two official transcripts of all college work. Translations must be provided for all international transcripts
3. Non-refundable application fees will be charged for both the TCU application and the School of Music application
4. Three current letters of reference from persons qualified to comment on the applicant's academic and/or musical achievement, teaching and/or professional experience, and potential for success in the degree program
5. A double-spaced typed paper of five pages or more that illustrates the applicant's writing and research skills. A term paper completed as part of master's level work is sufficient, or the student may submit a research paper, a critical analysis, or an article suitable for publication
6. A curriculum vitae is required. This should include a list of concert performances, compositions, publications, and other musical accomplishments
7. Test scores must be sent to TCU from the testing agency: GRE (composition only) and TOEFL or IELTS (international students)
8. Applicants must complete the requirements for the major field of study as described below:

Performance

Applicants must submit a video recording of a live performance and include a program (PDF preferred). These required materials are uploaded through the School of Music website.

Composition

Applicants must submit five scores of recent works with recordings, as available. These materials should be mailed directly to the School of Music. Complete directions are available at the School of Music website.

Conducting

Applicants must submit a video recording of a recent ensemble performance and rehearsal conducted by the applicant and a repertoire list of significant works conducted, as well as those prepared for conducting. These required materials are uploaded through the School of Music website.

Audition

Based on the results of pre-screening, an invitation may be extended to perform an on-campus audition and/or interview in the principal applied music area before a faculty committee. Applicants should not select an audition day until they have received an official invitation to do so. If invited, the audition/recital/interview should be arranged in coordination with the faculty in the major area and the School of Music. Consult the faculty in the major area for instructions concerning the audition requirements, materials to bring, etc. The School of Music will send faculty contact information after application materials are received. Audition dates are posted on the School of Music website.

Language Requirement

The student must demonstrate a reading knowledge of one language in addition to English.

The student may meet the language requirement by having earned at least a "B" average in the undergraduate sophomore year (both semesters) of the language, by earning a "B" in a graduate-level course in the language, or by achieving an appropriate score on a language exam such as the College Level Examination Program (CLEP). Curricular DMA credit is not given for language courses; in addition, no graduate financial aid is available for these courses.

Entrance Examination

The academic and musical abilities of all applicants are assessed by means of an entrance examination. This exam is given during the audition/interview visit. The exam serves as a diagnostic tool to determine whether or not a student is prepared for doctoral study, the results of the exam are reported to the School of Music and added to the student's file.

Students whose master's degree program did not include a course in bibliographic research will be required to take MUSI 60103 Bibliography and Research Techniques; this course must be counted as an elective.

Further information about the entrance exam and suggestions for preparation are available at the School of Music website.

English Requirements for International Applicants

In order to be considered for admission to the TCU DMA Program, all international students must complete the Test of English as a Foreign Language and achieve a score of 100 on the iBT, TOEFL or 7.5 on the IELTS. Official scores must be sent to TCU from the testing agency.

This requirement applies to prospective international students.

Students who have earned a degree (in music) at an English-language university may be exempted from taking the TOEFL, at the discretion of the School of Music.

The on-campus interview and submitted writing samples will also be used to evaluate each applicant's English language proficiency. International students may be asked to interview via teleconference to ascertain listening and speaking ability in English.

GRE

The GRE is required of DMA applicants in Composition and Piano Pedagogy. Be sure to take the exam early enough that scores are available during the admissions decision process.

Application Deadlines

For full consideration, applicants seeking admission to the DMA Program should complete their application by December 1 to be considered for fall matriculation.

Graduate Assistantships

Graduate assistantships are available in various areas; these assistantships provide a tuition waiver, a stipend or both, and require up to 10 hours of work per week. Graduate assistants must be full-time resident students. Applicants should indicate their interest in being considered for an assistantship on the application for admission. The application must be received in the graduate office by December 1 for full consideration for the fall semester.

Generally, assistantships are for a complete academic year and are not available starting in the spring semester. Students are notified by April 15 if they have been granted an assistantship for the next academic year.

TCU adheres to the following Code of Ethics of the National Association of Schools of Music: "The acceptance of financial aid or the signing of a declaration of intent to enter a given institution to begin a specific degree or program of study shall not be binding if signed before April 15 of the calendar year of matriculation. In accepting this offer of financial aid from TCU, the student understands that there is a mutual commitment on the part of the student and the institution. The student agrees that after April 15 of the calendar year of matriculation, the student will not consider any other offer of financial aid from an institutional member of the National Association of Schools of Music or any other institution for the purpose of enrolling in a music major program for the academic year except with the express written consent of the music executive of TCU. Institutions shall allow students to choose without penalty among offers of admission and financial aid until April 15 of the calendar year of matriculation. Written declarations of intent become binding on these dates.

Doctoral students may hold an assistantship for a maximum of four years; yearly renewal is dependent upon the recommendation of the faculty. In order to have an assistantship renewed, the student must make excellent progress in all aspects of his/her degree plan, display professional and collegial conduct, and fulfill all assistantship duties.

Outside employment is discouraged for students who have financial aid with stipends. The University assumes that the student's primary obligation is toward graduate study. The Director of the School of Music and the Associate Dean of the College of Fine Arts reserve the right to review any outside employment and require that the student modify the commitment to the outside employment or relinquish the financial aid appointment.

DMA Keyboard Proficiency

Certain areas of study require keyboard proficiency. These standards are as follows:

Composition: Keyboard sight reading for composition majors consists of simple four-part, open choral score reading and a demonstrated ability to sight-read multiple lines at a time from a full orchestral or band score at pitch and in common transpositions (F, E-flat, B-flat, A) and tenor or alto clefs. The selected excerpts, which require moderate piano technical skills, must be transposed to the proper key and sounding octave.

Voice (Vocal Performance): Perform a piano audition of approximately five minutes in length. Repertoire presented should be equivalent in difficulty to that of Clementi Sonatinas or J. S. Bach Two Part Inventions. Pieces need not be memorized. Sight-read song accompaniments of moderate difficulty.

Choral Conducting: Sight reading for choral conducting majors consists of four-part, open choral score reading.

Wind Instrument Conducting: Sight read lines from a full orchestral or band score in common transpositions (F, E-flat, B-flat, A) and tenor or alto clefs. The selected excerpts, which require moderate piano technical skills, must be transposed to the proper key and sounding octave.

Orchestral Conducting: Two excerpts will be given to the student 24 hours prior to the exam, including four-part strings and four to five woodwinds and/or brass, including at least two transpositions. Two additional excerpts will be given at the exam, including a single line in alto or tenor clef, and a single line in B-flat, F, or A transposition.

The student's keyboard proficiency will be ascertained by means of an audition; the required skills must be acquired before candidacy.

DMA Program Specifics

Cognate Requirements

DMA programs in Performance, Composition, and Conducting require a cognate, or minor area, in addition to the major program. The cognate allows students to focus upon a secondary area and strengthen their overall musicianship, building upon the foundations of the major. Each cognate requires a total of 6 credits beyond the 54-credit requirement of the major, resulting in a total of 60 credits. A list of cognates and required coursework can be found below the individual DMA degree requirements.

The DMA in Piano Pedagogy requires 60 credit hours on its own; therefore, it is not allowed to have a cognate.

Major and Professor

At the time of admission, each student is assigned a faculty member—typically the student's professor in the major area—who serves as adviser and mentor throughout the program. The Major Professor advises the student on all matters pertaining to the program of study.

The Major Professor typically serves as the chair of the student's Doctoral Committee, guiding the preparation of recitals and research for the Document or Dissertation. The chair of the committee chairs the oral portion of the general exam as well as the final oral defense.

Co-Major Professor

If the Major Professor does not have an earned doctorate, a Co-Major Professor with an earned doctorate will be appointed. In this case, the Co-Major Professor will be the chair of the student's doctoral committee and mentor for the DMA Document/Dissertation. He/she will also lead the oral exam and defense. The Major Professor and Co-Major Professor must work cooperatively to ensure the student's success in all aspects of the program.

Doctoral Committee

Each student is counseled by a Doctoral Committee which is selected jointly by the student and the Major Professor. The student contacts members of the faculty to secure their willingness to serve on the committee and obtains the signature of each member on the Appointment of Doctoral Committee Form.

The Doctoral Committee will normally consist of five members:

1. The Major Professor
2. The Co-Major Professor or another professor from the major area
3. A faculty member from Theory/Composition
4. A faculty member from Musicology
5. A professor from outside the School of Music, or possibly from outside TCU.

The chair of the committee will be the Major Professor, or Co-Major Professor, following the guidelines above.

The committee approves the Doctoral Committee Report, conducts the oral portion of the general examination, supervises the preparation of the Document/Dissertation, and administers the final oral defense. At the Document/Dissertation stage, the Doctoral Committee may be reconstituted to provide additional expertise appropriate to the project. Any changes in membership of the Doctoral Committee must receive approval by the Director of the School of Music and the Associate Dean for Academic Affairs.

Doctoral Committee Report

The Doctoral Committee Report affords the opportunity for a thorough review of the student's degree progress. It is normally prepared jointly by the Major Professor and student when the student has earned at least 20, but not more than 30 doctoral credits, using the Doctoral Committee Report form. It is then circulated to all Doctoral Committee members for approval.

The report specifies the requirements for the completion of the degree and thus constitutes an agreement between the student, Doctoral Committee, and the School of Music. It must be submitted to and accepted by the College of Fine Arts Graduate Office prior to attempting the general examination.

Residency Requirements

The student must be in residence as a full-time student for two consecutive regular semesters (fall/spring or spring/fall). A minimum of nine hours of approved coursework and/or approved research must be completed each semester of the year of residence. Depending on the area of study, summer study/coursework may or may not be available. Summer coursework does not count toward residency requirements. Any exceptions to this policy must be approved by the Director of the School of Music and the College of Fine Arts Associate Dean for Academic Affairs.

Transfer Credit

All TCU DMA programs include 60 semester hours of credit. A master's degree of at least 30 hours is a prerequisite for DMA study at TCU.

Up to 12 semester hours of transfer credit earned beyond the master's level may be applied to doctoral degree requirements in accordance with the following rules:

1. The credit hours transferred must represent valid graduate credit from an institution accredited to offer the DMA or equivalent degree.
2. The credit is applicable to the degree program and is approved by the Major Professor, and the College of Fine Arts Associate Dean for Academic Affairs.

3. Credit hours in the candidate's major area of concentration may not be transferred.
4. Credit hours transferred must carry a grade of "A" or "B"
5. Credit hours transferred normally cannot be more than five years old at the time of admission or readmission to the degree program.
6. Students whose master's degree program included more than 30 hours may be eligible to transfer up to six hours of master's degree work.

DMA Public Performance Requirements

The program content for DMA recitals must be approved by the Major Professor. In the case of a lecture recital, an outline of the lecture must accompany the program. The first recital should be presented before the general examination is taken, and at least one recital should be performed after the general examination has been passed.

All members of the Doctoral Committee should be notified of the time, date, and location of each recital by the candidate at least two weeks prior to the performance. The Committee must also be furnished with the recital program two weeks in advance.

Normally, all doctoral recitals are given on campus. However, with permission of the Major Professor, a student may present a recital off campus. When a recital is given off campus, the Major Professor must be in attendance.

The recital will be evaluated and graded by the Major Professor, who may consult with committee members or other faculty in attendance. The student should send a web link to the recorded performance to all members of his/her doctoral committee.

Performance: A minimum of three public performances is required. At least two performances must be full-length solo recitals. The remaining performance may be either a lecture recital or chamber music recital. A student who has an opportunity to perform a concerto with orchestra or appear in a major operatic role may apply for evaluation of such performances as a portion of the recital requirements. Concerto or operatic performances may not be substituted for more than one full-length recital. Such substitution must be approved in advance by the student's Doctoral Committee. Memorization requirements are determined by the faculty in the major area. A recording may be required by some programs/areas.

Piano Pedagogy: A student emphasizing piano pedagogy must demonstrate competence both as a performer and as a teacher. To this end, three public performances are required:

1. A full-length solo recital;
2. A second full-length solo recital, a lecture recital (which may be pedagogical in nature), or a chamber music recital in which the piano plays an important musical role; and
3. A public workshop for piano teachers concentrating on teaching techniques and materials. The public workshop must be at least five hours in length. It may be presented off campus, provided the Major Professor is in attendance and the workshop is recorded.

Composition: A student in composition must demonstrate competence as a practitioner of the musical art by presenting two recitals. One recital is a program of original music. The second recital requirement may be satisfied through the presentation of a single recital of original music or the equivalent realized through several performances of original compositions presented during regular School of Music concerts or recital programs. As appropriate, the student may appear as a soloist, member of a chamber ensemble or as conductor. A student who has the opportunity for a significant off-campus performance of original music may apply for evaluation of that performance as a portion of the second recital requirement. This must be approved by the Major Professor and the Doctoral Committee.

Conducting: Three public performances are required. Two of these may be performed by TCU School of Music ensembles; at least one recital must be performed by a group recruited by the student. At least two performances must be full-length concerts. The remaining performance may be a lecture recital related to the document topic. Concert literature should comprise a variety of national and historical styles, and should make use of large as well as small ensembles. Choice of repertoire and media is made after consultation with and approval of the Major Professor and the Doctoral Committee. Detailed and specific requirements are available from the conducting area faculty.

Recital Recording

Recitals performed in Ed Landreth Hall, the TCU Music Center or PepsiCo Recital Hall will be recorded by School of Music staff. The student must arrange for a recording to be made of any recitals given outside of the

School of Music or off campus. Recordings made by the School of Music are archived by the library.

DMA Comprehensive Examination

The comprehensive examination is designed to evaluate the student's ability to integrate knowledge, apply theoretical concepts, demonstrate skills and draw conclusions. It covers coursework completed for the doctoral degree as well as general musical knowledge acquired through prior study and professional experience. Topics include music theory, music history, the major area and cognate area.

Before taking the examination, the student should have completed nearly all of their coursework in music history and theory, and a majority of the major field coursework. The student must receive the approval of his or her Doctoral Committee to take the examination using the Approval for Taking the DMA Comprehensive Exam form. This form must be signed by all members and returned to the School of Music. The student must be enrolled in at least one graduate credit hour during the semester in which the comprehensive examination is taken.

The Comprehensive Examination is both written and oral. The written portion of the examination has four parts: music theory, music history, the cognate area, and the major area. The exam is offered once per semester, scheduled as needed. All four parts are taken during a two-day period.

Once a student has passed all parts of the written exam, the oral portion may be scheduled; this will be 2 to 4 weeks after the written exam. All members of the Doctoral Committee, including the outside member, must be present when the oral portion of the examination is administered. The oral exam is essentially a "follow up" on the written exam. The candidate will have an opportunity to clarify or expand on any issues not adequately covered in writing.

After the oral portion of the comprehensive examination, the committee will determine if the student has passed. The result will be conveyed by the Report of DMA Comprehensive Examination form. The Major Professor should bring this form to the oral exam. All members of the committee must sign the form and it is then returned to the Assistant Director of Academic Programs in the School of Music. If the student fails, the student may, with the permission of the committee, attempt the examination one more time during the following semester or later. A third attempt is not permitted.

DMA Written Document/Dissertation

A 6-credit hour written Document is required for the DMA in Performance, Piano Pedagogy and Conducting. The Document is normally more limited in scope than a Dissertation, but demonstrates high standards of scholarship and contributes to existing knowledge. It is hoped that the final project is suitable for publication.

Composition students produce a full 12-hour dissertation of one or more compositions suitable for publication.

Students should begin thinking about a topic early during the coursework so they may be ready to present the topic proposal as soon as possible during their degree program.

Choosing a Topic

Performance, Conducting, and Pedagogy: The document is normally concerned with such areas as music history, repertoire, performance practices, analysis of major works, human physiology, acoustics, psychology, aesthetics, teaching methods and materials, and the editing of lesser-known compositions.

Composition: The Dissertation comprises one or more major works.

Proposal

Once a potential topic is identified, a written proposal is prepared under the guidance of the Major Professor and possibly other members of the Doctoral Committee. The proposal normally includes an introduction, a discourse on the nature and importance of the topic, the state of current knowledge relevant to the topic, a chapter-by-chapter outline, and a bibliography. Sample chapters may also be required. Expectations for the proposal will vary considerably from one major area to another. The Major Professor will ultimately determine the style and scope of the proposal, which will be shaped by the expectations in that particular discipline.

Once the proposal is written, it is submitted to all committee members for comments and suggestions. Following further revision (if needed), the proposal is considered at a meeting of the entire Doctoral Committee. The student is required to be present at this meeting. Approval of the proposal is indicated on the Approval of DMA Document/Dissertation Proposal form. This is signed by all committee members and returned to the School of Music.

Document or Dissertation Hours Enrollment

The student should enroll in MUSI 90960/MUSI 90970 (DMA Document) or MUSI 90980/MUSI 90990 (DMA Composition Dissertation) during any enrollment period in which work on the project or proposal is undertaken. Following the initial enrollment in Document or Dissertation hours, a student should maintain continuous enrollment during each regular semester in at least one hour of Document or Dissertation until the degree is completed. The 6 or 12 Document/Dissertation credit hours should be divided as evenly as possible over the semesters in which the work is unfolding; normally this will begin in the fifth semester of study. These hours will at first receive the grade of Incomplete. The Incomplete grades for Document/Dissertation remain as such on the student's record until the project is finished and a final grade is recorded by the Major Professor. Unlike grades in regular coursework, they do not revert to F's automatically.

Document/Dissertation Writing

During the research and writing of the project, the candidate is advised to consult regularly with the Major Professor and, from time to time, with the other members of the Doctoral Committee. The Major Professor bears the primary responsibility for guiding the research efforts of the doctoral candidate and should possess expertise in the topic area as well as skills of scholarship necessary to guide the project to successful completion. When the topic extends beyond the expertise of this faculty member, a Co-Major Professor may serve the best interests of the student. In addition, if the student's Major Professor does not have an earned doctorate, the Co-Major Professor, appointed at the outset of doctoral study, will mentor the project. (See above, Co-Major Professor.) The major or Co-Major Professor supervises the project to ensure exhaustive research of the topic, a thorough and complete report of the findings, a logical organization of the paper, correct grammar, proper spelling, scholarly writing style, and appropriate format. Before other members of the Doctoral Committee receive the paper for review (either in part or whole), the paper should be at a stage of progress and level of scholarship suitable for critical examination.

Each committee member brings his/her own area of expertise to bear on the paper and carefully scrutinizes it for weaknesses in research, content, organization and general scholarship. In the case of disagreement between the committee members, the Major Professor (chair of the Doctoral Committee) will have final authority over the project.

A style guide and instructions for the Document/Dissertation may be found on the CFA grad studies website. This guide includes samples for the title and signature page. Since all TCU theses, Documents, and Dissertations are electronically archived, previous successful DMA projects may be downloaded from the TCU library repository. The student should examine these works. URL links to the repository are provided in the style guide.

Completing and Defending the Document/Dissertation

The following timeline assumes that the student has worked for several semesters on the project and that the Major Professor and committee members have provided sufficient input and guidance. The candidate must enroll in at least one graduate hour during the semester in which the project is completed and the Final Oral Defense is taken. Deadlines will vary somewhat from year to year, but will be essentially as follows:

Week 2: The candidate must file an Intent to Graduate Form through the College of Fine Arts website. A non-refundable fee is charged when the Intent is filed. Candidates should not file the Intent without reviewing the following deadlines and obtaining permission from the Major Professor.

Week 6: The completed Document/Dissertation must be available for the committee by this time. Minor revisions may take place during the weeks following this date. If the committee, led by the Major Professor, approves the Document/Dissertation the final oral defense may be scheduled.

Week 11: Date of Final Oral defense should be agreed upon and set by this time. The candidate will schedule the exam and notify the CFA Graduate Office of the date using the Final Oral Defense Scheduling Form. In order to allow adequate time for preparation of questions, the candidate will provide a PDF of the finished Document/Dissertation to each member of the committee two weeks before the defense.

Week 15: The Final Oral Defense must be completed by this date. The defense is a discussion of the Document/Dissertation. At least four members of the committee, including the Major Professor, must be present to conduct the defense. Following a decision on the candidate's defense, those committee members present will grade and sign the

Report on the Final Oral Defense Form. The Major Professor will deliver the form Assistant Director for Academic Programs in the School of Music.

Week 16: The candidate will submit a PDF of the final Document/Dissertation following the instructions posted on the TCU library website and the CFA Graduate website. Copyright may be obtained; the candidate must pay the fee for this optional service. The School of Music also requires a bound copy of the Document/Dissertation for its archives. Electronic submission of the final version of the project, including any changes suggested at the Oral Defense, must be completed by the Monday before graduation. The Major Professor must turn in a course grade for the Document/Dissertation by the Wednesday before graduation. This grade will replace all previous Incomplete grades for Document or Dissertation hours.

Time Limit

The DMA degree must be completed within 10 years of matriculation into the DMA program. Extension of the time limit must be applied for in writing to the Director of the School of Music, who will then make a recommendation to the Associate Dean for Academic Affairs. The letter should explain why the candidate did not complete the degree within the time limit and should present a schedule for completion of the degree.

DMA Music Degree Program Requirements

Composition

MUSI 70630	Doctoral Composition	1.00-3.00
MUSP 80971	DMA Recital I	1
MUSP 80981	DMA Recital II	1
MUSI 60801	Composition Seminar	1
MUSI	Music Theory Courses (MUSI 50000 and above)	12
MUSI 70903	Music Theory Treatise	3
MUSI	Music History Courses (MUSI 50000 and above)	9
60010-30360	Ensembles*	1
MUSI 90980	DMA Composition Dissertation	1.00-6.00
MUSI 90990	DMA Composition Dissertation	1.00-6.00
	Electives (50000 and above)	2
	Additional Credits in Cognate Area	6

Subtotal: 60

Conducting

MUSI 70220	Doctoral Conducting	18
MUSP 80971	DMA Recital I	1
MUSP 80981	DMA Recital II	1
MUSP 80991	DMA Recital III	1
MUSI 60232	Score Reading	2
MUSI	Music Theory Courses (MUSI 50000 and above)	9
MUSI	Music History Courses (MUSI 50000 and above)	9
MUSI 60010-60360	Ensembles	2
MUSI 90970	DMA Document	1-6
	Electives (50000 and above)	5
	Additional Credits in Cognate Area	6

Subtotal: 60

***MUSI 70220 must include lessons in orchestral, band and choral conducting over the course of six semesters.**

****Music Theory Courses must include MUSI 70203 Analysis for Performance and MUSI 50970 Special Studies: Advanced Orchestration.**

*****Music History Courses must include MUSI 50403 Symphonic Literature, MUSI 50423 Choral Literature, and MUSI 50970 Special Studies: Band Literature.**

Performance (Instrumental)

MUSP	Lessons on major instrument	18
MUSP 80971	DMA Recital I	1
MUSP 80981	DMA Recital II	1
MUSP 80991	DMA Recital III	1
MUSI	Music Theory Courses (MUSI 50000 and above)	9
MUSI	Music History Courses (MUSI 50000 and above)	9
MUSI 60010-60360	Ensembles	2
MUSI 90970	DMA Document	1-6
	Electives (50000 and above)	7
	Additional Credits in Cognate Area	6

Subtotal: 60

Performance (Voice)

MUSP 70110	Doctoral Voice	12
MUSP 70110	Doctoral Voice (Vocal Coaching)	6
MUSP 80961	DMA Lecture Recital	1
MUSP 80971	DMA Recital I	1
MUSP 80981	DMA Recital II	1
MUSI 60010-60360	Ensembles	2
MUSI 50053	Introduction to Voice Pedagogy	3
MUSI	Music Theory Courses (MUSI 50000 and above)	9
MUSI	Music History Courses (MUSI 50000 and above)	9
MUSI 90970	DMA Document	1-6
	Electives (MUSI 50000 and above)	4
	Additional Credits in Cognate Area	6

Subtotal: 60

Piano Pedagogy

MUSP 70210	Doctoral Voice	12
MUSP 80971	DMA Recital I	1
MUSP 80981	DMA Recital II	1
MUSI 80971	Doctoral Pedagogy Workshop I	1
MUSI 80981	Doctoral Pedagogy Workshop II	1
MUSI	Music Theory Courses (MUSI 50000 and above)	9
MUSI	Music History Courses (MUSI 50000 and above)	9

MUSI 60080-60170	Ensembles	2
	Piano Pedagogy courses**	12-14
MUSI 90970	DMA Document	1-6
	Electives	4-6

Subtotal: 60

*MUSI 70210: six semesters

**Piano Pedagogy Courses are chosen from MUSI 60203, MUSI 60213, MUSI 60223, MUSI 60233, MUSI 60243, MUSI 60913, MUSI 60923, MUSI 61230, MUSI 60400

Cognates

For DMA degrees in Composition, Performance, and Conducting, the student must choose a cognate area from the options below. The DMA in Piano Pedagogy is not allowed to have a cognate.

The cognates as shown below indicate the total number of credits that must be taken to earn the cognate; **however, all cognates require only 6 additional credits beyond the 54 credits indicated for the respective majors.**

The total credits needed to complete any DMA degree is 60.

Music Theory

(Not available to DMA Composition Students)

MUSI	History Courses (MUSI 50000 and above)	15
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* Music Theory credits (9), earned in fulfillment of the degree plans, may be applied to the 15 – credit Cognate in Music Theory requirement.

Music History

MUSI	History Courses (MUSI 50000 and above)	15
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*Music History credits (9), earned in fulfillment of the degree plans, may be applied to the 15 – credit Cognate in Music History requirement.

Performance

(Admission to the performance cognate is by audition and must be approved by the appropriate applied music faculty)

MUSP 60110-60610	Applied Lessons	6
60010-30360	Ensembles*	1
MUSP	Performance Electives**	2

* Ensemble credit (1) earned in fulfillment of the cognate may be applied to the ensemble credit requirements of the degree plans above.

** Performance elective credit (2) earned in fulfillment of the cognate may be applied to elective credit requirements of the degree plans above.

Composition

(Not available to DMA Composition Students)

(Admission to the composition cognate must be approved by the composition faculty)

MUSI 60630	Composition	6
MUSI 60801	Composition Seminar*	1
MUSI	Composition Electives**	2

* Composition Seminar credit (1) earned in fulfillment of the cognate may be applied to the elective credit requirements of the degree plans above.

** Composition elective credit (2) earned in fulfillment of the cognate may be applied to elective credit requirements of the degree plans above.

Vocal Pedagogy

(The cognate in vocal pedagogy is available to DMA Vocal Performance students only.)

MUSI 50053	Intro to Voice Pedagogy*	3
MUSI 60053	Voice Repertoire Management**	3

MUSI 60041	Voice Pedagogy Practicum**	1
MUSI 60073	Technology in Voice Teaching**	3
	AND	
MUSI 60063	Advanced Vocal Pedagogy Seminar**	3
	OR	
COSD 60390	Vocal Faults**	3

*Musi 50053 in this cognate counts as the "Pedagogy elective" in DMA Voice degree plan

**Musi 60041 and either MUSI 60053, MUSI 60063 or MUSI 60073 may be applied to elective credit requirement of the DMA Vocal Performance degree plan.

Piano Pedagogy

(The cognate in piano pedagogy is available to DMA Piano Performance students only.)

MUSI 60203	Graduate Piano Pedagogy and Practicum I	3
MUSI 60213	Graduate Piano Pedagogy and Practicum II	3
	AND*	
MUSI 60223	Current Trends and Research in Piano Pedagogy	3
MUSI 60233	Teaching Intermediate and Advanced Piano Students	3
MUSI 60243	Piano Ensemble Teaching and Performance Literature	3
MUSI 60913	Psychology of Music	3
MUSI 60923	Philosophy of Music Education	1
MUSI 60400	Special Studies in Piano Pedagogy	1

* 5-6 credits from among the classes listed

Music, MM and MME

Degree programs may be pursued in Master of Music with emphasis in performance, pedagogy, musicology, music theory, composition or a Master of Music Education.

Prerequisites

To apply to the Master of Music program, students must possess a Bachelor of Music or its equivalent, usually with a major in the area of proposed graduate study, including sophomore-level credit in an approved foreign language in the case of prospective majors in musicology or theory/composition. To apply to the Master of Music Education program, students must possess a Bachelor of Music or its equivalent, with a major in music education.

For admission, the student must have satisfactory undergraduate preparation for the particular degree sought which includes at least a "B" (3.0) average in all undergraduate work and satisfactory scores on the appropriate tests required by the school/college.

Applicants from countries other than the United States must meet the same admission standards required of all other applicants. In addition, before being admitted to the School of Music, all international students must complete the Test of English as a Foreign Language (TOEFL) and achieve a score of 80 on the iBT or TOEFL, a 6.5 on the IELTS, or 105 on the Duolingo English test. Official scores must be sent to TCU from the testing agency.

Application

Application to the Master of Music and Master of Music Education programs requires students complete two applications:

- The TCU Graduate Admission Application, available at graduate.tcu.edu
- The School of Music Admission Application, available at music.tcu.edu/admission

Audition

Students applying in performance must present a satisfactory, in-person audition. In exceptional circumstances, permission may be granted for a video audition to be considered for admission.

Additional Requirements

The GRE is optional for students applying in the areas of musicology, theory/composition, and music education. Students applying for admission to all other Master of Music programs are not required to take the GRE, but are strongly encouraged to do so and submit scores prior to admission. The test scores, along with other materials, provide valuable information aiding in the evaluation and placement of students.

All entering graduate students are required to take placement examinations in Musicology and Music Theory. Results of these examinations are used in advising and to determine if leveling work in either or both areas is warranted. All portions of the test must be satisfactorily completed prior to admission to candidacy.

Students majoring in musicology, music theory or composition must submit examples of scholarly or creative work in the School of Music Application. Scholarly papers, compositions (scores and recordings), are appropriate.

Piano Pedagogy applicants should submit a 15-minute video recording of teaching, to include a private lesson to be uploaded as part of the School of Music Admission Application. This can also include a group lesson. International students should submit a video demonstrating their ability to teach using the English language.

Every graduate student must participate in an ensemble for a minimum of two semesters during residency. In special circumstances related to stipend or assistantship, ensemble participation may be required for additional semesters.

Application Deadlines

For full consideration, applicants seeking admission to any music master's program should complete their application by February 15 to be considered for fall matriculation. Optimal consideration for scholarships and assistantships will be given to applications completed fully (including delivery of all supporting materials) by February 1.

Degree Requirements

Performance majors must earn 30-34 hours in approved graduate courses, including at least 12 hours in studio instruction, and present two recitals, the content and format of which shall be determined and evaluated by the student's Graduate Advisory Committee.

Pedagogy, musicology, music theory and composition majors must earn 34-36 hours in approved graduate courses, with at least half of the courses, including thesis where appropriate, in the principal field.

Electives are chosen from graduate courses in music or related academic fields, with permission from the Director of the School of Music and the Associate Dean for Academic Affairs. Recommendations may be made on the basis of undergraduate transcript and placement examinations.

Comprehensive Oral Examination

A comprehensive oral examination must be passed before the completion of all programs. This examination is usually given after the final recital or project is completed; however, it may be given early within the final semester of study as appropriate. Results of the comprehensive oral examination must be reported no later than the last day of classes each semester.

Only one re-examination of a failed oral exam will be permitted, the date to be set at the discretion of the examining committee. A student must be enrolled for a minimum of one hour of credit during any term in which the oral exam will be taken.

Master of Music Degree Programs

String Requirements

Applied Studio Lessons 12

Required:

MUSP 60310	Violin	1.00-6.00
MUSP 60320	Viola	1.00-6.00
MUSP 60330	Violoncello	1.00-6.00

MUSP 60340	Double Bass	1.00-6.00
MUSP 60360	Jazz Bass	1.00-6.00
MUSP 60710	Harp	1.00-6.00
MUSP 60810	Guitar	1.00-6.00
MUSP 60910	Jazz Guitar	1.00-6.00

Recitals 2

Required:

MUSP 70971	Recital I	1
MUSP 70981	Recital II	1

Music Theory 6

Choose two:

MUSI 50203	Musical Structure and Style	3
MUSI 50523	Linear Analysis	3
MUSI 60133	Music Theory/Literacy Pedagogy	3
MUSI 60553	Analysis of Music: 1880-1950	3
MUSI 60563	Analysis of Music: 1950 to Present	3
MUSI 60800	Seminar in Music Theory	1-20

Musicology 6

Required:

MUSI 60103	Bibliography and Research Techniques	3
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Choose one:

MUSI 50303	History of Sacred Music	3
MUSI 50403	Symphonic Literature	3
MUSI 50413	Opera Literature	3
MUSI 50423	Choral Literature	3
MUSI 50433	Keyboard Literature I Pre-Baroque through Classical	3
MUSI 50443	Ethnomusicology	3
MUSI 50463	Topics in Music Since 1900	3
MUSI 50473	Art Song Literature	3
MUSI 50483	Chamber Music Literature	3
MUSI 50493	Music in the United States	3
MUSI 50533	Keyboard Literature II Romantic through Contemporary	3
MUSI 60300	Special Problems in Music Education	1-20
MUSI 60500	Seminar in Musicology	1-20

Ensembles 4

Required:

MUSI 60120	Symphony Orchestra	0.5
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Choose any:

MUSI 60080	Chamber Music	0.5
MUSI 60150	New Music Ensemble	0.5
MUSI 60180	Collegium Musicum	0.5
MUSI 60350	TCU Cello Ensemble	0.5
MUSI 60360	TCU Harp Ensemble	0.5

Electives 4

Any 50000 level and above from MUSI or MUSP coursework.

TOTAL CREDIT HOURS: 34

MUSP 70981 - The recital shall be no less than 60 minutes in length, not including intermission. A high-quality recording of the final recital must be available to the School of Music. This is the student's responsibility.

Music Theory Requirements

Music Theory 12

Required:

MUSI 50523	Linear Analysis	3
MUSI 60553	Analysis of Music: 1880-1950	3
MUSI 60800	Seminar in Music Theory	1-20
MUSI 60800	Seminar in Music Theory	1-20

Additional courses in Music Theory 6

MUSI 50203	Musical Structure and Style	3
MUSI 60080	Chamber Music	0.5
MUSI 60133	Music Theory/Literacy Pedagogy	3
MUSI 60563	Analysis of Music: 1950 to Present	3

Thesis 6

Required:

MUSI 70980	Thesis I	1-20
MUSI 70990	Thesis II	1-20

Musicology 6

Required:

MUSI 60103	Bibliography and Research Techniques	3
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Choose one:

MUSI 50303	History of Sacred Music	3
MUSI 50403	Symphonic Literature	3
MUSI 50413	Opera Literature	3
MUSI 50423	Choral Literature	3
MUSI 50433	Keyboard Literature I Pre-Baroque through Classical	3
MUSI 50443	Ethnomusicology	3
MUSI 50463	Topics in Music Since 1900	3
MUSI 50473	Art Song Literature	3
MUSI 50483	Chamber Music Literature	3
MUSI 50493	Music in the United States	3
MUSI 50533	Keyboard Literature II Romantic through Contemporary	3
MUSI 60300	Special Problems in Music Education	1-20
MUSI 60500	Seminar in Musicology	1-20

Ensembles (.5 credit) 1

Choose any:

MUSI 60010	Wind Symphony	0.5
MUSI 60020	Percussion Ensemble	0.5
MUSI 60030	Choral Union	0.5
MUSI 60040	Concert Chorale	0.5
MUSI 60060	University Singers	0.5
MUSI 60070	Vocal Jazz	0.5
MUSI 60080	Chamber Music	0.5
MUSI 60090	Woodwind Ensemble	0.5
MUSI 60100	Opera Studio	0.5
MUSI 60120	Symphony Orchestra	0.5

MUSI 60140	Frog Corps	0.5
MUSI 60150	New Music Ensemble	0.5
MUSI 60170	Piano Accompanying	0.5
MUSI 60180	Collegium Musicum	0.5
MUSI 60190	Jazz Ensemble	0.5
MUSI 60210	Symphonic Band	0.5
MUSI 60350	TCU Cello Ensemble	0.5
MUSI 60360	TCU Harp Ensemble	0.5

Electives 5

Any 50000 level and above from MUSI or MUSP coursework

TOTAL CREDIT HOURS: 36

Composition Requirements

Composition 12

Required:

MUSI 60630	Composition (2 semesters)	6
MUSI 70980	Thesis I	1-20
MUSI 70990	Thesis II	1-20

Music Theory 9

MUSI 50523	Linear Analysis	3
MUSI 60553	Analysis of Music: 1880-1950	3
MUSI 60800	Seminar in Music Theory	1-20

Musicology 6

Required:

MUSI 60103	Bibliography and Research Techniques	3
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Choose one:

MUSI 50303	History of Sacred Music	3
MUSI 50403	Symphonic Literature	3
MUSI 50413	Opera Literature	3
MUSI 50423	Choral Literature	3
MUSI 50433	Keyboard Literature I Pre-Baroque through Classical	3
MUSI 50443	Ethnomusicology	3
MUSI 50463	Topics in Music Since 1900	3
MUSI 50473	Art Song Literature	3
MUSI 50483	Chamber Music Literature	3
MUSI 50493	Music in the United States	3
MUSI 50533	Keyboard Literature II Romantic through Contemporary	3
MUSI 60303	History of Music Notation	3
MUSI 60500	Seminar in Musicology	1-20

Additional Music Theory or Musicology coursework 3

Choose one:

MUSI 50203	Musical Structure and Style	3
MUSI 60133	Music Theory/Literacy Pedagogy	3
MUSI 60563	Analysis of Music: 1950 to Present	3
MUSI 60800	Seminar in Music Theory	1-20
MUSI 60801	Composition Seminar	1
MUSI 70203	Analysis for Performance	3

MUSI 50303	History of Sacred Music	3
MUSI 50403	Symphonic Literature	3
MUSI 50413	Opera Literature	3
MUSI 50423	Choral Literature	3
MUSI 50433	Keyboard Literature I Pre-Baroque through Classical	3
MUSI 50443	Ethnomusicology	3
MUSI 50463	Topics in Music Since 1900	3
MUSI 50473	Art Song Literature	3
MUSI 50483	Chamber Music Literature	3
MUSI 50493	Music in the United States	3
MUSI 50533	Keyboard Literature II Romantic through Contemporary	3
MUSI 60303	History of Music Notation	3
MUSI 60500	Seminar in Musicology	1-20

Ensembles (.5 credit) 1**Choose any:**

MUSI 60010	Wind Symphony	0.5
MUSI 60020	Percussion Ensemble	0.5
MUSI 60030	Choral Union	0.5
MUSI 60040	Concert Chorale	0.5
MUSI 60060	University Singers	0.5
MUSI 60070	Vocal Jazz	0.5
MUSI 60080	Chamber Music	0.5
MUSI 60090	Woodwind Ensemble	0.5
MUSI 60100	Opera Studio	0.5
MUSI 60120	Symphony Orchestra	0.5
MUSI 60140	Frog Corps	0.5
MUSI 60150	New Music Ensemble	0.5
MUSI 60170	Piano Accompanying	0.5
MUSI 60180	Collegium Musicum	0.5
MUSI 60190	Jazz Ensemble	0.5
MUSI 60210	Symphonic Band	0.5
MUSI 60350	TCU Cello Ensemble	0.5
MUSI 60360	TCU Harp Ensemble	0.5

Electives 5

Any 50000 level and above from MUSI or MUSP coursework

TOTAL CREDIT HOURS: 36

**In the Music Composition degree, composition lessons are continued under the course heading of Thesis, resulting in a capstone composition of significant scope.*

Piano Performance Requirements**Applied Studio Lessons 12****Required:**

MUSP 60210	Piano	1.00-6.00
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Recitals 2**Required:**

MUSP 70971	Recital I	1
MUSP 70981	Recital II	1

Music Theory 6**Choose two:**

MUSI 50203	Musical Structure and Style	3
MUSI 50523	Linear Analysis	3
MUSI 60133	Music Theory/Literacy Pedagogy	3
MUSI 60553	Analysis of Music: 1880-1950	3
MUSI 60563	Analysis of Music: 1950 to Present	3
MUSI 60630	Composition	1-6
MUSI 60800	Seminar in Music Theory	1-20

Musicology 6**Required:**

MUSI 60103	Bibliography and Research Techniques	3
MUSI 50433	Keyboard Literature I Pre-Baroque through Classical	3
	OR	
MUSI 50533	Keyboard Literature II Romantic through Contemporary	3

If substituting, choose one:

MUSI 50303	History of Sacred Music	3
MUSI 50403	Symphonic Literature	3
MUSI 50413	Opera Literature	3
MUSI 50423	Choral Literature	3
MUSI 50443	Ethnomusicology	3
MUSI 50463	Topics in Music Since 1900	3
MUSI 50473	Art Song Literature	3
MUSI 50483	Chamber Music Literature	3
MUSI 50493	Music in the United States	3
MUSI 60300	Special Problems in Music Education	1-20
MUSI 60500	Seminar in Musicology	1-20

Ensembles (.5 credit) 1**Choose any:**

MUSI 60080	Chamber Music	0.5
MUSI 60150	New Music Ensemble	0.5
MUSI 60170	Piano Accompanying	0.5
MUSI 60180	Collegium Musicum	0.5
MUSI 60190	Jazz Ensemble	0.5

Electives 5

Any 50000 level and above from MUSI or MUSP coursework

TOTAL CREDIT HOURS: 30

**MUSI 70971, MUSI 70981 - Each of the two recitals shall be no less than 60 minutes in length. The first recital may, if desired, include a concerto with second piano accompaniment and/or chamber music. This portion, however, must be no more than half the length of the recital.*

***Allow for substitution if student has previously taken Keyboard Literature I or II.*

Organ Performance Requirements**Applied Studio Lessons 12****Required:**

MUSI 60220	Special Studies in Conducting	1-4
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Recitals 2**Required:**

MUSP 70971	Recital I	1
MUSP 70981	Recital II	1

Music Theory 6**Choose two:**

MUSI 50203	Musical Structure and Style	3
MUSI 50523	Linear Analysis	3
MUSI 60133	Music Theory/Literacy Pedagogy	3
MUSI 60553	Analysis of Music: 1880-1950	3
MUSI 60563	Analysis of Music: 1950 to Present	3
MUSI 60630	Composition	1-6
MUSI 60800	Seminar in Music Theory	1-20

Musicology 6**Required:**

MUSI 60103	Bibliography and Research Techniques	3
MUSI 50303	History of Sacred Music	3

Ensembles (.5 credit) 1**Choose any:**

MUSI 60030	Choral Union	0.5
MUSI 60040	Concert Chorale	0.5
MUSI 60060	University Singers	0.5
MUSI 60180	Collegium Musicum	0.5

Electives 5

Any 50000 level and above from MUSI or MUSP coursework

TOTAL CREDIT HOURS: 30

Collaborative Piano Requirements**Applied Studio Lessons 8****Required:**

MUSP 60312	Applied Collaborative Piano	2
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Applied Collaborative Skills 4**Required:**

MUSI 60141	Collaborative Piano Practicum	4
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Recitals 2**Required:**

MUSP 71971	Collaborative Piano Recital I	1
MUSP 72971	Collaborative Piano Recital II	1

Music Theory 6**Choose two:**

MUSI 50203	Musical Structure and Style	3
MUSI 50523	Linear Analysis	3
MUSI 60133	Music Theory/Literacy Pedagogy	3
MUSI 60553	Analysis of Music: 1880-1950	3
MUSI 60563	Analysis of Music: 1950 to Present	3
MUSI 60630	Composition	1-6
MUSI 60800	Seminar in Music Theory	1-20

Musicology 6**Required:**

MUSI 60103	Bibliography and Research Techniques	3
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Choose one:

MUSI 50303	History of Sacred Music	3
MUSI 50403	Symphonic Literature	3
MUSI 50413	Opera Literature	3
MUSI 50423	Choral Literature	3
MUSI 50433	Keyboard Literature I Pre-Baroque through Classical	3
MUSI 50443	Ethnomusicology	3
MUSI 50463	Topics in Music Since 1900	3
MUSI 50473	Art Song Literature	3
MUSI 50483	Chamber Music Literature	3
MUSI 50493	Music in the United States	3
MUSI 60303	History of Music Notation	3
MUSI 60483	Instrumental Collaborative Piano Literature	3
MUSI 60500	Seminar in Musicology	1-20

Ensembles (.5 credit) 1**Choose any:**

MUSI 60080	Chamber Music	0.5
MUSI 60150	New Music Ensemble	0.5
MUSI 60170	Piano Accompanying	0.5
MUSI 60180	Collegium Musicum	0.5
MUSI 60190	Jazz Ensemble	0.5

Electives 5

Choose 2-3 or any 50000 level and above from MUSI or MUSP coursework:

Choose any:

MUSI 50212	Choral Conducting	2
MUSI 50222	Instrumental Conducting	2
MUSI 60191	Vocal Coaching for Pianists	1
MUSI 60232	Score Reading	2
MUSP 60110	Voice	1.00-6.00
MUSP 60220	Organ	1.00-6.00
MUSP 60240	Harpsichord	1.00-6.00

TOTAL CREDIT HOURS: 32

Piano Pedagogy Requirements**Applied Studio Lessons 8****Required:**

MUSP 60210	Piano	2
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Recitals 1**Required:**

MUSP 70971	Recital I	1
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Pedagogy 15**Required:**

MUSI 60203	Graduate Piano Pedagogy and Practicum I	3
MUSI 60213	Graduate Piano Pedagogy and Practicum II	3

MUSI 60223	Current Trends and Research in Piano Pedagogy	3
MUSI 60913	Psychology of Music	3
MUSI 60230	Internship in Teaching	1
MUSI 70972	Lecture Recital	2

Music Theory 3**Choose one:**

MUSI 50203	Musical Structure and Style	3
MUSI 50523	Linear Analysis	3
MUSI 60133	Music Theory/Literacy Pedagogy	3
MUSI 60553	Analysis of Music: 1880-1950	3
MUSI 60563	Analysis of Music: 1950 to Present	3
MUSI 60630	Composition	1-6
MUSI 60800	Seminar in Music Theory	1-20

Musicology 6**Required:**

MUSI 60103	Bibliography and Research Techniques	3
MUSI 50433	Keyboard Literature I Pre-Baroque through Classical	3
	OR	
MUSI 50533	Keyboard Literature II Romantic through Contemporary	3

If substituting, choose one:

MUSI 50303	History of Sacred Music	3
MUSI 50403	Symphonic Literature	3
MUSI 50413	Opera Literature	3
MUSI 50423	Choral Literature	3
MUSI 50433	Keyboard Literature I Pre-Baroque through Classical	3
MUSI 50443	Ethnomusicology	3
MUSI 50463	Topics in Music Since 1900	3
MUSI 50473	Art Song Literature	3
MUSI 50483	Chamber Music Literature	3
MUSI 50493	Music in the United States	3
MUSI 60303	History of Music Notation	3
MUSI 60500	Seminar in Musicology	1-20

Ensembles (.5 credit) 1

MUSI 60080	Chamber Music	0.5
MUSI 60170	Piano Accompanying	0.5

TOTAL CREDIT HOURS: 34

*Allow for substitution if student has previously taken Keyboard Literature I or II.

Voice Pedagogy Requirements**Applied Studio Lessons 8****Required:**

MUSI 60162	Techniques for the Singer-Actor	2
MUSP 60110	Voice	1.00-6.00

Recitals 1**Required:**

MUSP 70971	Recital I	1
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Pedagogy 9**Required:**

MUSI 50053	Introduction to Voice Pedagogy	3
MUSI 50063	Comparative Voice Pedagogy	3
MUSI 60041	Voice Pedagogy Practicum	1
MUSI 60052	Voice Repertoire Management	2

Music Theory 6**Choose two:**

MUSI 50203	Musical Structure and Style	3
MUSI 50523	Linear Analysis	3
MUSI 60133	Music Theory/Literacy Pedagogy	3
MUSI 60553	Analysis of Music: 1880-1950	3
MUSI 60563	Analysis of Music: 1950 to Present	3
MUSI 60630	Composition	1-6
MUSI 60800	Seminar in Music Theory	1-20

Musicology 6**Required:**

MUSI 60103	Bibliography and Research Techniques	3
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Choose one:

MUSI 50303	History of Sacred Music	3
MUSI 50403	Symphonic Literature	3
MUSI 50413	Opera Literature	3
MUSI 50423	Choral Literature	3
MUSI 50433	Keyboard Literature I Pre-Baroque through Classical	3
MUSI 50443	Ethnomusicology	3
MUSI 50463	Topics in Music Since 1900	3
MUSI 50473	Art Song Literature	3
MUSI 50483	Chamber Music Literature	3
MUSI 50493	Music in the United States	3
MUSI 50533	Keyboard Literature II Romantic through Contemporary	3
MUSI 60303	History of Music Notation	3
MUSI 60500	Seminar in Musicology	1-20

Ensembles (.5 credit) 2**Choose any:**

MUSI 60100	Opera Studio	0.5
MUSI 60040	Concert Chorale	0.5
MUSI 60080	Chamber Music	0.5
MUSI 60150	New Music Ensemble	0.5
MUSI 60180	Collegium Musicum	0.5

Electives 3

Any 50000 level and above from MUSI or MUSP coursework

TOTAL CREDIT HOURS: 34

MUSI 70971 - the recital shall be no less than 60 minutes in length, not including intermission. A high-quality recording of the final recital must be available to the School of Music. This is the student's responsibility.

MUSI 60041 - Voice Pedagogy Practicum may be repeated for elective credit.

Voice Performance Requirements

Applied Studio Lessons 10

Required:

MUSI 60010	Wind Symphony	0.5
MUSI 60162	Techniques for the Singer-Actor	2

Recitals 2

Required:

MUSP 70971	Recital I	1
MUSP 70981	Recital II	1

Pedagogy 9

Required:

MUSI 50053	Introduction to Voice Pedagogy	3
MUSI 60052	Voice Repertoire Management	2

Music Theory 6

Choose two:

MUSI 50203	Musical Structure and Style	3
MUSI 50523	Linear Analysis	3
MUSI 60133	Music Theory/Literacy Pedagogy	3
MUSI 60553	Analysis of Music: 1880-1950	3
MUSI 60563	Analysis of Music: 1950 to Present	3
MUSI 60630	Composition	1-6
MUSI 60800	Seminar in Music Theory	1-20

Musicology 6

Required:

MUSI 60103	Bibliography and Research Techniques	3
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Choose one:

MUSI 50303	History of Sacred Music	3
MUSI 50403	Symphonic Literature	3
MUSI 50413	Opera Literature	3
MUSI 50423	Choral Literature	3
MUSI 50433	Keyboard Literature I Pre-Baroque through Classical	3
MUSI 50443	Ethnomusicology	3
MUSI 50463	Topics in Music Since 1900	3
MUSI 50473	Art Song Literature	3
MUSI 50483	Chamber Music Literature	3
MUSI 50493	Music in the United States	3
MUSI 50533	Keyboard Literature II Romantic through Contemporary	3
MUSI 60303	History of Music Notation	3
MUSI 60500	Seminar in Musicology	1-20

Ensembles (.5 credit) 2

Choose any:

MUSI 60100	Opera Studio	0.5
MUSI 60040	Concert Chorale	0.5

Electives 3

Any 50000 level and above from MUSI or MUSP coursework

TOTAL CREDIT HOURS: 34

MUSI 70971-70981 - the recital shall be no less than 60 minutes in length, not including intermission. A high-quality recording of the final recital must be available to the School of Music. This is the student's responsibility.

Winds and Percussion Performance Requirements

Applied Studio Lessons 12

Required:

MUSP 60410	Flute	1.00-6.00
MUSP 60420	Oboe	1.00-6.00
MUSP 60430	Clarinet	1.00-6.00
MUSP 60440	Saxophone	1.00-6.00
MUSP 60450	Bassoon	1.00-6.00
MUSP 60460	Jazz Saxophone	1.00-2.00
MUSP 60510	French Horn	1.00-6.00
MUSP 60520	Trumpet	1.00-6.00
MUSP 60530	Trombone	1.00-6.00
MUSP 60540	Baritone	1.00-6.00
MUSP 60550	Tuba	1.00-6.00
MUSP 60560	Euphonium	1.00-6.00
MUSP 60610	Percussion	1.00-6.00

Recitals 2

Required:

MUSP 70971	Recital I	1
MUSP 70981	Recital II	1

Music Theory 6

Choose two:

MUSI 50203	Musical Structure and Style	3
MUSI 50523	Linear Analysis	3
MUSI 60133	Music Theory/Literacy Pedagogy	3
MUSI 60553	Analysis of Music: 1880-1950	3
MUSI 60563	Analysis of Music: 1950 to Present	3
MUSI 60630	Composition	1-6
MUSI 60800	Seminar in Music Theory	1-20

Musicology 6

Required:

MUSI 60103	Bibliography and Research Techniques	3
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Choose one:

MUSI 50303	History of Sacred Music	3
MUSI 50403	Symphonic Literature	3
MUSI 50413	Opera Literature	3
MUSI 50423	Choral Literature	3
MUSI 50433	Keyboard Literature I Pre-Baroque through Classical	3
MUSI 50443	Ethnomusicology	3
MUSI 50463	Topics in Music Since 1900	3
MUSI 50473	Art Song Literature	3
MUSI 50483	Chamber Music Literature	3
MUSI 50493	Music in the United States	3

MUSI 50533	Keyboard Literature II Romantic through Contemporary	3
MUSI 60303	History of Music Notation	3
MUSI 60500	Seminar in Musicology	1-20

Ensembles (.5 credit) 4**Choose any:**

MUSI 60010	Wind Symphony	0.5
MUSI 60020	Percussion Ensemble	0.5
MUSI 60080	Chamber Music	0.5
MUSI 60090	Woodwind Ensemble	0.5
MUSI 60120	Symphony Orchestra	0.5
MUSI 60150	New Music Ensemble	0.5
MUSI 60160	Brass Ensemble	0.5
MUSI 60180	Collegium Musicum	0.5
MUSI 60190	Jazz Ensemble	0.5
MUSI 60210	Symphonic Band	0.5

Electives 4

Any 50000 level and above from MUSI or MUSP coursework

TOTAL CREDIT HOURS: 34

MUSP 70981 - the recital shall be no less than 60 minutes in length, not including intermission. A high-quality recording of the final recital must be available to the School of Music. This is the student's responsibility.

MUSI 60010-60210 is a two semester requirement.

MUSI 70981 - A high quality recording of the final recital must be available to the School of Music. This is the student's responsibility. A comprehensive oral examination follows the final recital.

Musicology Requirements**Musicology 16****Required:**

MUSI 60103	Bibliography and Research Techniques	3
MUSI 60500	Seminar in Musicology	1-20
MUSI 70950	Special Problems in Musicology	1.00-20.00

Choose three electives:

MUSI 50303	History of Sacred Music	3
MUSI 50403	Symphonic Literature	3
MUSI 50413	Opera Literature	3
MUSI 50423	Choral Literature	3
MUSI 50433	Keyboard Literature I Pre-Baroque through Classical	3
MUSI 50443	Ethnomusicology	3
MUSI 50463	Topics in Music Since 1900	3
MUSI 50473	Art Song Literature	3
MUSI 50483	Chamber Music Literature	3
MUSI 50533	Keyboard Literature II Romantic through Contemporary	3
MUSI 60303	History of Music Notation	3
MUSI 60500	Seminar in Musicology	1-20
MUSI	Seminar in Musicology	22

Thesis 6**Required:**

MUSI 70980	Thesis I	1-20
MUSI 70990	Thesis II	1-20

Music Theory 6**Choose two:**

MUSI 50203	Musical Structure and Style	3
MUSI 50523	Linear Analysis	3
MUSI 60133	Music Theory/Literacy Pedagogy	3
MUSI 60553	Analysis of Music: 1880-1950	3
MUSI 60563	Analysis of Music: 1950 to Present	3
MUSI 60800	Seminar in Music Theory	1-20

Ensembles (.5 credit) 1**Choose any:**

MUSI 60010	Wind Symphony	0.5
MUSI 60020	Percussion Ensemble	0.5
MUSI 60030	Choral Union	0.5
MUSI 60040	Concert Chorale	0.5
MUSI 60060	University Singers	0.5
MUSI 60070	Vocal Jazz	0.5
MUSI 60080	Chamber Music	0.5
MUSI 60090	Woodwind Ensemble	0.5
MUSI 60100	Opera Studio	0.5
MUSI 60120	Symphony Orchestra	0.5
MUSI 60140	Frog Corps	0.5
MUSI 60150	New Music Ensemble	0.5
MUSI 60170	Piano Accompanying	0.5
MUSI 60180	Collegium Musicum	0.5
MUSI 60190	Jazz Ensemble	0.5
MUSI 60210	Symphonic Band	0.5
MUSI 60350	TCU Cello Ensemble	0.5
MUSI 60360	TCU Harp Ensemble	0.5

Electives 3

Any 50000 level and above from MUSI or MUSP coursework

TOTAL CREDIT HOURS: 32**Conducting Requirements - Band Conducting Emphasis****Band Conducting Emphasis****Applied Conducting Study 11****Required:**

MUSI 50222	Instrumental Conducting	2
MUSI 50970	Special Problems	0.5-6
MUSI 60232	Score Reading	2
MUSI 60220	Special Studies in Conducting	1-4

Performance 6**Required:**

MUSP 60310-60810	Graduate Lessons in applicable instrument
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Music Theory 6**Choose two:**

MUSI 50203	Musical Structure and Style	3
MUSI 50523	Linear Analysis	3
MUSI 60133	Music Theory/Literacy Pedagogy	3
MUSI 60553	Analysis of Music: 1880-1950	3
MUSI 60563	Analysis of Music: 1950 to Present	3
MUSI 60630	Composition	1-6
MUSI 60800	Seminar in Music Theory	1-20

Musicology 6**Required:**

MUSI 60103	Bibliography and Research Techniques	3
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Choose one:

MUSI 50303	History of Sacred Music	3
MUSI 50403	Symphonic Literature	3
MUSI 50413	Opera Literature	3
MUSI 50423	Choral Literature	3
MUSI 50433	Keyboard Literature I Pre-Baroque through Classical	3
MUSI 50443	Ethnomusicology	3
MUSI 50463	Topics in Music Since 1900	3
MUSI 50473	Art Song Literature	3
MUSI 50483	Chamber Music Literature	3
MUSI 50493	Music in the United States	3
MUSI 50533	Keyboard Literature II Romantic through Contemporary	3
MUSI 60303	History of Music Notation	3
MUSI 60500	Seminar in Musicology	1-20

Electives 3

Any 50000 level and above from MUSI or MUSP coursework

TOTAL CREDIT HOURS: 32

MUSP 70981 - Conducting majors participate as conductors in at least two public performances with major University ensembles. A high-quality recording of the final recital must be available to the School of Music. This is the student's responsibility.

Conducting Requirements - Choral Conducting Requirements**Choral Conducting Emphasis****Applied Conducting Study 4****Required:**

MUSI 60220	Special Studies in Conducting	1-4
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Voice 7**Required:**

MUSI 60110	Marching Band	0.5
MUSI 50053	Introduction to Voice Pedagogy	3

Recitals 2**Required:**

MUSP 70971	Recital I	1
MUSP 70981	Recital II	1

Music Theory 6**Choose two:**

MUSI 50203	Musical Structure and Style	3
MUSI 50523	Linear Analysis	3
MUSI 60133	Music Theory/Literacy Pedagogy	3
MUSI 60553	Analysis of Music: 1880-1950	3
MUSI 60563	Analysis of Music: 1950 to Present	3
MUSI 60630	Composition	1-6
MUSI 60800	Seminar in Music Theory	1-20

Musicology 9**Required:**

MUSI 60103	Bibliography and Research Techniques	3
MUSI 50423	Choral Literature	3

Choose one:

MUSI 50303	History of Sacred Music	3
MUSI 50403	Symphonic Literature	3
MUSI 50413	Opera Literature	3
MUSI 50443	Ethnomusicology	3
MUSI 50463	Topics in Music Since 1900	3
MUSI 50473	Art Song Literature	3
MUSI 50483	Chamber Music Literature	3
MUSI 50493	Music in the United States	3
MUSI 60303	History of Music Notation	3
MUSI 60500	Seminar in Musicology	1-20

Electives 4

Any 50000 level and above from MUSI or MUSP coursework

TOTAL CREDIT HOURS: 32

MUSI 70971, MUSI 70981 - Conducting majors participate as conductors in at least two public performances with major University ensembles. A high-quality recording of the final recital must be available to the School of Music. This is the student's responsibility.

Conducting Requirements Orchestral Conducting Emphasis**Orchestral Conducting Emphasis****Applied Conducting Study 8****Required:**

MUSI 50222	Instrumental Conducting	2
MUSI 60232	Score Reading	2
MUSI 60220	Special Studies in Conducting	1-4

Performance 6**Required:**

MUSP 60310-60810	Graduate Lessons in applicable instrument	
MUSP 70971	Recital I	1
MUSP 70981	Recital II	1

Music Theory 6**Choose two:**

MUSI 50203	Musical Structure and Style	3
MUSI 50523	Linear Analysis	3
MUSI 60133	Music Theory/Literacy Pedagogy	3

MUSI 60553	Analysis of Music: 1880-1950	3	MUSI 60030	Choral Union	0.5
MUSI 60563	Analysis of Music: 1950 to Present	3	MUSI 60040	Concert Chorale	0.5
MUSI 60630	Composition	1-6	MUSI 60060	University Singers	0.5
MUSI 60800	Seminar in Music Theory	1-20	MUSI 60070	Vocal Jazz	0.5

Musicology 9**Required:**

MUSI 60103	Bibliography and Research Techniques	3
MUSI 50403	Symphonic Literature	3

Choose one:

MUSI 50303	History of Sacred Music	3
MUSI 50403	Symphonic Literature	3
MUSI 50413	Opera Literature	3
MUSI 50423	Choral Literature	3
MUSI 50443	Ethnomusicology	3
MUSI 50463	Topics in Music Since 1900	3
MUSI 50473	Art Song Literature	3
MUSI 50483	Chamber Music Literature	3
MUSI 50493	Music in the United States	3
MUSI 60303	History of Music Notation	3
MUSI 60500	Seminar in Musicology	1-20

Electives 3

Any 50000 level and above from MUSI or MUSP coursework

TOTAL CREDIT HOURS: 32

MUSP 70981 - Conducting majors participate as conductors in at least two public performances with major University ensembles. A high-quality recording of the final recital must be available to the School of Music. This is the student's responsibility.

Music Education, MME Program Requirements

Music education majors must earn a minimum of 32 hours in approved graduate courses, with at least half of the courses, where appropriate, in the principal field of instrumental, choral or general music. This degree is designed to strengthen musical scholarship and performance, to promote philosophical and psychological understanding in music education, and to provide opportunities to explore specific interests of the individual student through special topics courses.

Master of Music Education Degree

Music Education 15

Required:

MUSI 60913	Psychology of Music	3
MUSI 60923	Philosophy of Music Education	3
MUSI 60300	Special Problems in Music Education	1-20

Education and/or Pedagogy Electives* 4

Choose any course from EDUC, EDEC or MUSI 50000-60000 level coursework

Performance 4**Required:**

MUSP 60110-60710**	Graduate Lessons in applicable instrument	
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Required Ensembles (.5 credit)

MUSI 60010	Wind Symphony	0.5
MUSI 60020	Percussion Ensemble	0.5

MUSI 60080	Chamber Music	0.5
MUSI 60090	Woodwind Ensemble	0.5
MUSI 60100	Opera Studio	0.5
MUSI 60120	Symphony Orchestra	0.5
MUSI 60140	Frog Corps	0.5
MUSI 60150	New Music Ensemble	0.5
MUSI 60170	Piano Accompanying	0.5
MUSI 60180	Collegium Musicum	0.5
MUSI 60190	Jazz Ensemble	0.5
MUSI 60210	Symphonic Band	0.5
MUSI 60350	TCU Cello Ensemble	0.5
MUSI 60360	TCU Harp Ensemble	0.5

Music Theory 3**Choose one:**

MUSI 50203	Musical Structure and Style	3
MUSI 50523	Linear Analysis	3
MUSI 60133	Music Theory/Literacy Pedagogy	3
MUSI 60553	Analysis of Music: 1880-1950	3
MUSI 60563	Analysis of Music: 1950 to Present	3
MUSI 60630	Composition	1-6
MUSI 60800	Seminar in Music Theory	1-20

Musicology 3**Required:**

MUSI 60103	Bibliography and Research Techniques	3
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Electives 3

Any 50000 level and above from MUSI or MUSP coursework

TOTAL CREDIT HOURS: 32

*Chosen with the Advisor

**MUSP 60110/MUSI 60710 - With permission, students may take Performance for six semester hours, including a public recital.

MUSI 60103	Bibliography and Research Techniques	3
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Master of Music Education Degree

Piano Pedagogy Emphasis

Piano Pedagogy 18

Required:

MUSI 60203	Graduate Piano Pedagogy and Practicum I	3
MUSI 60213	Graduate Piano Pedagogy and Practicum II	3
MUSI 60223	Current Trends and Research in Piano Pedagogy	3
MUSI 60913	Psychology of Music	3
MUSI 60923	Philosophy of Music Education	3
MUSI 60300	Special Problems in Music Education	1-20

OR

MUSI 70972 Lecture Recital 2

Education and/or Pedagogy Electives* 3

Choose any course from EDUC, EDEC or MUSI 50000-60000 level coursework

Performance 7**Required:**

MUSP 60210 Piano 1.00-6.00

MUSI 60080 Chamber Music 0.5

OR

MUSI 60170 Piano Accompanying 0.5

Music Theory 3**Choose one:**

MUSI 50203 Musical Structure and Style 3

MUSI 50523 Linear Analysis 3

MUSI 60133 Music Theory/Literacy Pedagogy 3

MUSI 60553 Analysis of Music: 1880-1950 3

MUSI 60563 Analysis of Music: 1950 to Present 3

MUSI 60630 Composition 1-6

MUSI 60800 Seminar in Music Theory 1-20

Musicology 3**Required:**

MUSI 60103 Bibliography and Research Techniques 3

TOTAL CREDIT HOURS: 34

*Chosen with the Advisor.

**MUSP 60210 - With permission, students may present a public recital.

Artist Diploma (Post-Baccalaureate)

The Artist Diploma is a three-year program for the most advanced and gifted performers in piano and strings, 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 appropriate applied studio faculty is required. Admission to the program is allowed only upon the recommendation of the appropriate applied studio faculty and the approval of the School of Music director.

Application Deadlines

For full consideration, applicants seeking admission to the Artist Diploma program should complete their application by February 15 to be considered for fall matriculation.

Program Requirements

The Artist Diploma in piano and strings requires 33 hours total.

Studio Performance Lessons: 26**Required:**

MUSP 50210 Artist Diploma Lessons 1-6

Recitals 4

MUSP 50961 Artist Diploma Recital I 1

MUSP 50971 Artist Diploma Recital II 1

MUSP 50981 Artist Diploma Recital III 1

MUSP 50991 Artist Diploma Recital IV 1

Chamber Music/Ensemble/Collaborative Piano: 3

MUSI Ensemble

MUSI 60080 Chamber Music 0.5

MUSI 51081 Artist Diploma Post-Baccalaureate Collaborative Piano 1

MUSI 60080/ MUSI 600X0/ MUSI 51081-Appropriate course determined by student's applied music area and Advisor; specific ensemble assignment determined upon admission.

Artist Diploma (Post-Baccalaureate) in Percussion Winds or Voice

The Artist Diploma in Percussion, Winds or Voice is a two-year program for the most advanced and gifted 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 appropriate applied studio faculty is required. Admission to the program is allowed only upon the recommendation of the appropriate applied studio faculty and the approval of the School of Music director.

A minimum cumulative GPA of 3.0 is required to maintain satisfactory academic progress in this program.

Application Deadlines

For full consideration, applicants seeking admission to the Artist Diploma program should complete their application by February 15 to be considered for fall matriculation.

Program Requirements

The Artist Diploma in percussion, winds or voice requires 24 hours total.

Applied Performance Lessons 16-18**Required:**

MUSP 50210 Artist Diploma Lessons 1-6

MUSI 50051 Orchestral Repertoire Studies 1

MUSI 50970 Special Problems 0.5-6

*12 hours minimum in MUSP 50210

Recitals 2**Required:**

MUSP 50961 Artist Diploma Recital I 1

MUSP 50971 Artist Diploma Recital II 1

Chamber Music/Ensemble/Collaborative Piano: 3

MUSI Ensemble

MUSI 60080 Chamber Music 0.5

MUSI 51081 Artist Diploma Post-Baccalaureate Collaborative Piano 1

MUSI 60080/ MUSI 600X0/ MUSI 51081-Appropriate course determined by student's applied music area and Advisor; specific ensemble assignment determined upon admission.

Electives 2-4

MUSI 50051 Orchestral Repertoire Studies 1

MUSI 50171 Advanced Diction English and Italian 1

MUSI 50181 Advanced Diction ξ German and French 1

MUSI 50191 Slavic Lyric Diction 1

MUSI 50970 Special Problems 0.5-6

MUSI 60020 Percussion Ensemble 0.5

MUSI 60080	Chamber Music	0.5
MUSI 60090	Woodwind Ensemble	0.5
MUSI 60091	Yoga for Musicians	1
MUSI 60150	New Music Ensemble	0.5
MUSI 60160	Brass Ensemble	0.5
MUSI 60180	Collegium Musicum	0.5

* 1 hour maximum in MUSI 60091

Large Ensembles 2

MUSI 60010	Wind Symphony	0.5
MUSI 60120	Symphony Orchestra	0.5
MUSI 60190	Jazz Ensemble	0.5
MUSI 60100	Opera Studio	0.5

*1 hour maximum in MUSI 60010 for Winds/Percussion

Addran College of Liberal Arts

In 1873, Addison and Randolph Clark established Addran Male and Female College in Thorp Spring, Texas. That institution later moved to Fort Worth and became Texas Christian University. Though the University has grown and expanded into areas that the Clark brothers could not have conceived, the Addran College of Liberal Arts perpetuates their vision of education and the centrality of the liberal arts that lay at its core.

Today, Addran offers the MA and Ph.D. in English and History, the Ph.D. in Rhetoric and Composition, the MS in Criminal Justice, and the Master of Liberal Arts. Four departments (economics; philosophy; religion; sociology and anthropology) offer a limited number of courses at the graduate level in which graduate students from across the University can enroll. Additionally, faculty in other Addran departments also hold appointments to the graduate faculty, allowing them to work with graduate students in various capacities, including serving on thesis or dissertation committees.

English

For admission and general requirements, see degree requirements for specific departmental requirements and supplementary information.

English MA/Ph.D. and Rhetoric and Composition Ph.D. Admission Requirements

To pursue the MA in English, students must earn a B.A. or equivalent, with credit in English equivalent to the TCU 30-semester-hour major. To pursue the Ph.D., students must earn a B.A. or equivalent, with credit in English equivalent to the TCU 30-semester-hour major and sophomore-level credit in a foreign language. Applicants with less preparation may be admitted conditionally but must take such additional courses as prescribed by Addran College and the departmental director of graduate studies. Applicants must present recent GRE scores (less than five years old) with the admission application. Applicants must also submit a writing sample (10-20 pages, exclusive of notes and works cited) that demonstrates appropriate academic and writing skills needed for success in an English graduate program. Applicants should include with their materials a personal statement outlining career goals, explaining how they match the English Program at TCU, and three to five references relevant to postgraduate work in English studies.

English, MA

The program requires at least 30 semester hours of credit approved by the director of graduate studies in addition to any coursework required because of inadequate prerequisites. The 30 hours include thesis and may include up to 9 hours for an approved minor or approved courses in a related field or fields.

Accelerated MA in English

The accelerated MA in English option allows outstanding TCU undergraduates with a declared English or writing major to earn both a Bachelor's and a Master's degree in English in five years. Students may apply for admission into the Accelerated MA in English program after earning 60 hours or undergraduate coursework. Students intending to pursue this accelerated option should tell the English Department as early as possible in order to ensure proper advising.

For admission consideration, students must submit a graduate program application packet. The application process is selective; only students with an outstanding record and strong recommendations will be considered. If admitted, students will complete a 30-hour graduate degree plan. Students will complete up to 12 hours of graduate coursework (four graduate courses) during the last year of undergraduate study. Those 12 hours may also fulfill requirements for the undergraduate English or writing major. Candidates must work with the graduate advisor to determine how the courses will apply to the MA degree.

At the end of the a student's fourth year, assuming that all other graduation requirements are met, the student earns the baccalaureate

degree (in English or writing). During the fifth year, students must take an additional 18 hours to complete the Accelerated MA in English degree including 6 thesis hours.

English, Ph.D.

Course Requirements

Students must complete for credit a minimum of 54 semester hours of graduate courses, exclusive of 12 credit hours for the dissertation. Postgraduate hours completed more than seven years prior to a student's admission into TCU's English graduate program may not count toward requirements; the graduate advisor will determine applicable credit on a case-by-case basis.

Of the 54 hours, at least 36 must be taken at TCU. Of these courses, students must take 6 hours in Pedagogy and remaining hours in

	Pedagogy (6 hours)	
ENGL 60513	Teaching College Composition	3
	ONE of the following:	
ENGL 50973	Directed Study in English	3
ENGL 60803	Literature Pedagogy	3
	AND	
	Electives (30 hours)	

electives, as outlined below. The course in Teaching College Composition may be satisfied through transfer/waiver.

Students should select their additional coursework in consultation with their English advisor(s) and the Director of Graduate Studies, focused not only on intended area(s) of specialization but in preparation for qualifying examinations.

Examinations

A student takes qualifying comprehensive examinations, consisting of a minimum of two exams in two different areas, when they have completed for credit 48-54 hours of graduate courses, of which 36 must be from TCU; and completed requisite coursework. These examinations are based on the student's areas of concentration. The student and their advisory committee will determine the areas to be covered by the exams. A student who fails one or more areas of the examinations may retake the failed area(s) again, but a second failure on any area of the examination bars the student from candidacy.

Dissertation

Doctoral students must complete a dissertation that demonstrates their ability to do independent and original research, and to synthesize their findings and existing knowledge into a unified document. A candidate must present a dissertation prospectus to their advisory committee for discussion, suggestions and approval before proceeding with the project. The candidate's oral defense of the dissertation is a public lecture based upon their findings, presented to the Department of English graduate faculty, graduate students and other interested persons within the academic community.

Academic Advising

Students are advised in consultation with their English advisor(s) and the Director of Graduate Studies.

Rhetoric and Composition, Ph.D.

Course Requirements

Students must complete for credit a minimum of 54 semester hours of graduate courses exclusive of 12 credit hours for the dissertation. Postgraduate hours completed more than seven years prior to a student's admission into TCU's graduate program in Rhetoric and Composition may not count toward requirements; the graduate adviser will determine applicable credit on a case-by-case basis.

Of the 54 hours, at least 36 must be taken at TCU according to the following requirements:

I. Foundations to the Profession (9 hours)

Students must complete 9 hours in coursework that addresses each of three areas:

ENGL 60513	Teaching College Composition	3
	One graduate-level course in composition	3
	One graduate-level course in rhetoric	3

II. Electives (27 hours)

Students should select their additional coursework in consultation with the Rhetoric and Composition PhD advisor(s) and the Director of Graduate Studies, focused not only on intended area(s) of specialization but in preparation for qualifying examinations in both rhetoric and composition (e.g., pedagogy, literacy, technology, disciplinary history, and theory and methodology).

Examinations

A student takes qualifying comprehensive examinations, consisting of a minimum of two exams in two areas, when she or he has completed for credit 48-54 hours of graduate courses, of which 36 must be from TCU; and completed requisite coursework. These examinations are based on the student's areas of concentration. The student and his or her advisory committee will determine the areas to be covered by the exams. A student who fails one or more areas of the examinations may retake the failed area(s) again, but a second failure on any area of the examination bars the student from candidacy.

Dissertation

Doctoral students must complete a dissertation that demonstrates their ability to do independent and original research, and to synthesize their findings and existing knowledge into a unified document. A candidate must present a dissertation prospectus to their advisory committee for discussion, suggestions and approval before proceeding with the project. The candidate's oral defense of the dissertation is a public lecture based upon their findings, presented to the Department of English graduate faculty, graduate students and other interested persons within the academic community.

Academic Advising

Students are advised in consultation with the Rhetoric and Composition PhD advisor(s) and the Director of Graduate Studies.

Comparative Race and Ethnic Studies

A Graduate Certificate in Comparative Race and Ethnic Studies (CRES) is available to TCU graduate students as a supplement to existing master's and doctoral degree programs. CRES critically examines race and ethnicity as an essential step in becoming ethical citizens and leaders in today's global community. It is an academic and community-oriented program that values respect, inclusiveness, creative expression, dialogue, engagement, inquiry and academic excellence. The certificate recognizes a student's intensive engagement with issues in Race and Ethnic Studies in the context of her/his regular disciplinary graduate work. A Graduate Certificate in CRES signifies a TCU graduate student has adequately demonstrated a commitment to the CRES program's mission and demonstrated competencies in its learning outcomes. Students may also add a supplemental Concentration in Research and/or Pedagogy.

Admission Requirements

A student must be enrolled in a TCU master's or doctoral program approved by the Comparative Race and Ethnic Studies department to participate. See the departmental website for a list of eligible programs. Admission to the CRES Graduate Certificate is automatic if the student has full good standing in her/his graduate program as certified by the Director of Graduate Studies of the student's home program or his/her College's Associate Dean of Graduate Studies.

For admission to the supplemental Concentration in Research and/or the Concentration in Pedagogy programs, the student must have already completed a minimum of 6 hours of the CRES Graduate Certificate requirements (described below), including CRES 60003, and have full good standing in her/his graduate program as certified by the program's Director of Graduate Studies or his/her College's Associate Dean of Graduate Studies.

Application for admission to the CRES Graduate Certificate and the

supplemental Concentration in Research and/or Concentration in Pedagogy programs should be made by downloading the admissions form on the CRES website, obtaining the necessary signatures in the student's home program or college, and then delivering it to the Chair of Comparative Race and Ethnic Studies.

CRES Graduate Certificate Requirements

The Graduate Certificate in Comparative Race and Ethnic Studies requires 10 semester hours including the required CRES 60003 Graduate Introduction to Comparative Race and Ethnic Studies course and the required CRES 70001 CRES Portfolio. The other six hours of electives consist of CRES-prefixed or CRES-approved courses passed with a grade of "C-" or better.

Required Courses: 10 hours

Required Courses: 10 hours

CRES 60003	Graduate Introduction to Comparative Race and Ethnic Studies	3
CRES 70001	Portfolio	1
	Elective Course (CRES prefix or CRES approved)	3
	Elective Course (CRES prefix or CRES approved)	3

CRES Graduate Certificate Portfolio (CRES 70001) 1 hour

To earn a Graduate Certificate in CRES, students must complete the following and demonstrate the appropriate competencies when applicable:

- Provide evidence, such as a paper or project, of a presentation at an academic conference that engages with issues, areas of study, or research that align with the work outlined in the students' CRES Graduate Certificate coursework.
- Demonstrate an application of knowledge gained in the Graduate Certificate coursework either through scholarship and/or community service.
- Develop (and when possible implement) a lesson plan that speaks to the various commitments of the CRES department. The Graduate Certificate Portfolio will be approved by a committee of CRES core faculty appointed by the Chair of Comparative Race and Ethnic Studies.

Supplemental Concentration in Research and or Pedagogy

For admission to the supplemental Concentration in Research and/or the Concentration in Pedagogy programs, the student must satisfactorily complete a minimum of 6 hours of the CRES Graduate Certificate requirements, including CRES 60003, and have full good standing in her/his graduate program as certified by the program's Director of Graduate Studies or his/her College's Associate Dean of Graduate Studies.

Students should submit a second separate application for admission to each supplemental Concentration program to the Chair of Comparative Race and Ethnic Studies. Students may opt to complete one or both of the concentrations.

Concentration in Research

In order for graduate students to achieve the supplemental certification in research a total of six (6) dissertation or thesis hours must be added to their CRES program of study. For these hours to be considered, the student, in consultation with a CRES affiliated faculty member, must demonstrate how their research, such as thesis or dissertation work, meets the aims and objectives of the CRES department.

Concentration in Pedagogy

In order for graduate students to achieve the supplemental certification in pedagogy they must add an additional six (6) hours to their CRES program of study. Students can either take courses that specifically address teaching within comparative race and ethnicity framework and/or be a teaching assistant or instructor of record for a CRES approved course or equivalent.

Pass/No Credit

Courses for the graduate certificate may not be taken on a pass/no credit basis.

Criminology and Criminal Justice

The Department of Criminal Justice offers the Master of Science in Criminal Justice and Criminology. This graduate program emphasizes independent research and analytic thinking in examining topics and issues related to the study of crime and the criminal justice system. Students will apply analytic skills developed in the courses to examine contemporary criminal justice issues, analyze existing research and inform policy. Courses will integrate published research, empirical data and the personal experiences of the instructors and students in the criminal justice field. Students and instructors with a variety of backgrounds and experiences in the criminal justice field will provide a rich and interactive learning environment for those with or without a background in criminal justice. The program is offered exclusively online, with the exception of a one-day orientation that includes some classroom instruction. It is designed for prospective doctoral students, working professionals and college graduates interested in the advanced study of criminal justice and criminology.

Admission Requirements

For unconditional admission, applicants must meet the following requirements set by TCU:

- A bachelor's degree from an institution regarded as standard by the University and a regional accrediting agency
- A "B" average in either the last 60 hours of undergraduate work or in all undergraduate work
- A "B" average in the major field

The Department of Criminal Justice also requires the following from each applicant:

- A personal statement of no more than 250 words describing academic and professional objectives
- Three letters of recommendation
- A non-refundable application fee

Individuals who do not meet these requirements may be accepted conditionally, in accordance with TCU policy and with the approval of the program director. Meeting these minimum requirements does not guarantee admission to the program; it is up to the discretion of the program director and faculty to select applicants for admission. The department will consider qualified majors in other fields and can take into account life and career experience.

Students not meeting minimum GPA requirements can be considered for admission with supplemental performance predictors such as career experience or, GRE exam scores (not required).

Application Deadlines

Application materials must be received by May 1 to be considered for full consideration.

Criminal Justice, MS

Degree requirements differ depending on whether a student chooses to complete a thesis, which is recommended for those planning on doctoral studies. Since this is a fixed two-year program, students will not choose among course offerings, and no transfer credits will be given.

Thesis Track

30 hours of coursework and 6 hours of thesis work

Year 1

CRJU 61113	Introduction to Online Learning and Critical Thought	3
CRJU 61123	Criminal Justice Systems	3
CRJU 61143	Social Science Statistics and Probability	3
CRJU 61183	Advanced Criminological Theory	3

Year 2 - including summer

CRJU 61133	Advanced Social Science Research Methodology	3
CRJU 70980	Thesis	1-3
CRJU 61283	Research Writing	3
CRJU 70990	Thesis	1-3
CRJU 61253	Policing	3
CRJU 61273	Corrections and Reentry	3
CRJU 61263	Courts, Law, and Legal Procedure	3
CRJU 61293	White-Collar Crime	3

The thesis is a paper that must be approved by the student's advisor and thesis committee advisory members. It is a product of independent research and should demonstrate the appropriate level of analytic and writing acumen to the standards in the social sciences. Students will meet regularly with their advisers throughout the research and writing process. Each thesis student will enroll in thesis coursework during the summer semesters.

Non-Thesis Track

30 hours of coursework and 6 hours of applied research

Year 1

CRJU 61113	Introduction to Online Learning and Critical Thought	3
CRJU 61123	Criminal Justice Systems	3
CRJU 61143	Social Science Statistics and Probability	3
CRJU 61183	Advanced Criminological Theory	3

Year 2 - including summer

CRJU 61133	Advanced Social Science Research Methodology	3
CRJU 61193	Applied Research and Policy 1	3
CRJU 61283	Research Writing	3
CRJU 61393	Applied Research and Policy 2	3
CRJU 61253	Policing	3
CRJU 61273	Corrections and Reentry	3
CRJU 61263	Courts, Law, and Legal Procedure	3
CRJU 61293	White-Collar Crime	3

Non-thesis-track students are required to take two additional courses in order to complete the required 36 hours of degree coursework. CRJU 61193 Applied Research and Policy 1 and CRJU 61393 Applied Research and Policy 2 are designed to incorporate course material, acquired analytic skills, and each student's life and career experience in a project that assesses a contemporary topic in criminal justice and criminology.

Leadership, Executive and Administrative Development (LEAD) Certificate

The LEAD certificate is a 12-hour program designed for law enforcement and security professionals in mid to upper level supervisory positions. Two courses are taken concurrently on campus on two evenings each

semester for one academic year. Credits can be transferred to the M.S. in Criminal Justice and Criminology degree, which requires a separate application process. Applicants must have a bachelor's degree in an accredited institution and are required to submit a letter of recommendation from a Chief or equivalent supervisor to be considered for admission. Admission is highly selective.

Required courses:

CRJU 61333	Law Enforcement Policy and Practice
CRJU 61323	Legal Issues in Law Enforcement Management
CRJU 61313	Law Enforcement Management and Leadership
CRJU 61303	Critical Issues in Law Enforcement

History

The history concentration is available on the Master of Arts and Doctor of Philosophy degrees.

Students must earn a B.A. degree or its equivalent with a 24-hour major in history. Applicants lacking these qualifications may be admitted conditionally, but must take such preparatory work as may be prescribed by the departmental graduate committee.

Applicants should submit their materials before Feb. 1. Late applications will not be accepted.

History, MA

To be admitted to study in the MA program, an applicant must complete 24 hours of undergraduate history courses (any applicant lacking these qualifications may be admitted conditionally, but must take such preparatory work as may be prescribed by the Graduate History Committee. Students must also present a strong academic record and provide evidence of an ability to do scholarly research and writing).

For the thesis option, a minimum of 30 approved semester hours, including at least 15 in history courses and 6 in thesis, is required. A maximum of nine hours of supporting work in related disciplines is optional. For the non-thesis option, a minimum of 30 approved semester hours is required, including at least 15 hours in history courses. A maximum of 9 hours of supporting work in related disciplines is optional. HIST 50963 Historiography is required of all graduate students.

For specific requirements, consult the Department of History Guide to Graduate Study.

History, Ph.D.

To be admitted to study in the Ph.D. program, an applicant must have an MA in history (any applicant lacking these qualifications may be admitted conditionally, but must take such preparatory work as may be prescribed by the Graduate History Committee.)

Students must also present a strong academic record and provide evidence of an ability to do scholarly research and writing. Even though he/she may have earned an MA degree at TCU, the student must reapply to AddRan College before being admitted to work toward the Ph.D. degree. A statement of purpose, writing sample, and three letters of recommendation are required.

The doctorate is offered in the areas of the U.S. and Latin America history. Students are normally expected to earn the MA degree before continuing toward the Ph.D.

Degree Requirements

1. A suitable number and variety of graduate courses to prepare the student for the qualifying examination and for the writing of the dissertation. In addition to the major area of specialization, the student also completes coursework in two minor areas, usually 9 hours in each. With approval of the student's graduate committee, as many as 12 hours may be taken outside the department. The doctoral program comprises no fewer than 54 hours of graduate courses for credit exclusive of credit hours for the thesis or dissertation.
2. Reading knowledge of one approved foreign language, usually selected from French, German or Spanish. The language should be

the one most appropriate to the student's research and fields of concentration. Reading knowledge can be demonstrated by superior performance on the ETS examination, by satisfactory completion of a special course offered by the Department of Modern Languages, by independent study and successful examination by a member of the department fluent in the language, or by achieving at least a "B" in 6 hours of sophomore-level college language courses. The language requirements must be met before submitting the comprehensive portfolio.

3. There are two required courses, HIST 50963 (Historiography) and HIST 800083 (History as a Profession). Students who have taken similar courses at other institutions may petition the graduate committee for a waiver and will need to take other courses in lieu of these hours. Students are also required to take a minimum of two research seminars as a part of their overall coursework.
4. A comprehensive portfolio consisting of written materials and an oral examination covering two minor fields and the major area of specialization. The student must pass the written portions of the portfolio before taking the oral exam. In the event that the student fails the oral exam, the student's committee has the option to allow one more opportunity to pass. Upon completion of the comprehensive portfolio and a successful oral exam, the student is admitted to candidacy. For specifics regarding this examination, see the Department of History Guide to Graduate Study.
5. A doctoral dissertation constituting an original contribution to scholarship or a new synthesis of existing knowledge. The candidate defends the dissertation in a final oral examination.

Master of Liberal Arts

The Master of Liberal Arts program is designed to offer graduate-level education in the broad areas of liberal studies. It is a multidisciplinary, non-career oriented program that seeks to offer a wide range of educational opportunities to students of diverse educational backgrounds. The intent of the program is to make available to all college graduates an opportunity to satisfy their intellectual curiosity and to broaden their knowledge.

Application Procedures

A bachelor's degree from a regionally accredited college or university is required for admission. Applications for admission are available online at www.mla.tcu.edu.

The application is considered complete when the following are received: Completed application form (online)

One certified transcript mailed directly from the applicant's degree granting university to the Office of the Dean of AddRan College of Liberal Arts, TCU Box 297200, Fort Worth, TX 76129

A \$60 application fee (Due at the time online application is submitted)

MLA Degree Requirements

The MLA degree requires successful completion of 30 hours of coursework. Only MLA courses will fulfill the requirements for the MLA degree. Twelve of the 30 hours must be in MLA courses designated as "Perspectives on Society." Courses so designated will relate a liberal arts discipline to a) issues of contemporary American society, b) issues of culture or cultural diversity in America, c) other world cultures and societies. No thesis is required. An average GPA of 2.75 is required for graduation. Graduate students pursuing their MLA degree are expected to complete all requirements within a period of five years from the date of the earliest credit to be counted toward that degree including transfer credit.

Online Program

The MLA Program offers courses that can be taken completely online. These courses are open to all MLA students. If students wish, they can complete the entire MLA Program exclusively online. No distinction is made between in-person courses and online courses in terms of degree requirements or in the actual granting of the degree.

Pass/No-Credit

At the election of the student, MLA courses can be taken on a pass/no-credit basis; however, no more than nine hours taken on a pass/no-credit basis will count toward the MLA degree.

Independent Study

Students may pursue travel/study courses by taking an independent study course under the supervision of an MLA instructor. In order to take an independent study course, a student must follow certain guidelines, which are available from the Office of the Dean of AddRan

College of Liberal Arts. No more than six hours of independent study may count toward the degree.

Transfer Credit

Any request for transfer credit must be made on the appropriate form available in the Office of the Dean of AddRan College of Liberal Arts. An official transcript of the graduate work must be mailed from the registrar's office directly to TCU. Credit may be requested only for courses broad enough in content to meet the philosophic intent of the MLA Program. All requests are subject to approval by the MLA Advisory Committee. No more than six hours of transfer credit will be accepted. Courses, other than MLA, completed at TCU cannot be applied toward degree requirements.

MLA Courses

Courses in the MLA Program are offered on a rotating basis. Classes generally meet on weekday evenings; occasionally, day and Saturday classes are offered. MLA courses are also offered during the various summer terms. The Office of the Dean of AddRan College of Liberal Arts publishes course descriptions for each semester.

Women & Gender Studies Graduate Certificate

A Certificate in Women & Gender Studies is available on the master's and doctoral degrees in selected programs. A list of eligible programs is available on the women and gender studies website. The certificate recognizes a student's intensive investigation of issues in women and gender studies in the context of their regular disciplinary graduate work.

Admissions Requirements

A student must be enrolled in a master's or doctoral program approved by the women and gender studies department to participate. See the department website for a list of eligible programs. Application for admission to the certificate program should be made online to the women and gender studies department chair.

Harris College of Nursing & Health Sciences

PhD in Health Sciences

Doctor of Philosophy in Health Sciences Program of Study (54 semester credit hours)

Mission Statement:

The mission of this PhD program is to shape the next generation of faculty, scholars, and clinical scientists within the health sciences.

Program Description:

This PhD program will prepare individuals for research and teaching careers in academia and industry. A significant shortage of professors and clinical science leaders exists in many health science disciplines. There is a need to replace and fill these positions now and in the future. To help meet the shortfall of faculty and clinical research scientists, this PhD degree focuses on specific areas within the health sciences in one of two tracks: physical health sciences and social health sciences.

The physical health sciences track focuses on physiological and epidemiological issues related to human health across the lifespan. The social health sciences track focuses on psychological issues affecting human health across the lifespan.

The student will be admitted into a specific area of emphasis based on a declared department/unit affiliation. Each track will have a total of 18 hours of emphasis courses and a research seminar class each semester designed to develop the student's research interest within that area of emphasis. A Major Adviser, assigned to each student, will guide the types of emphasis courses based on the program of study. Students will also select a Dissertation Chair either at the beginning of the program or as soon as they identify their research interest area. The PhD in Health Sciences Handbook includes specifics about the student's Dissertation. Examples of possible emphasis courses for each track are provided below. Some of the emphasis courses will be focus seminars.

Physical Health Science Track-Emphasis Examples:

Biochemistry (two semesters - 8 hours)

Molecular Biology

Systems Physiology (muscular, cardio, respiratory)

Pharmacology

Stats-specific coursework

Special Topics (e.g., immunology, genetics, thermo-regulation)

Social Health Science Track Emphasis Examples:

Psychology (clinical, exercise, performance)

Sociology (family, cultural, diversity)

Quality of Life

Measurement/Assessment Tools

Theories of Practice

Stats-specific coursework

Special Topics (e.g., vulnerable populations, public health policy, children, pain management, symptom management)

ADMISSION REQUIREMENTS:

All applicants must meet general requirements for admission to the Graduate School. In addition to these general requirements, Harris College of Nursing and Health Sciences requires the following for admission to the PhD program:

1. Three letters of recommendation: At least one of the three should be an academic reference.
2. A letter discussing research interest area(s) and professional goals.
3. A curriculum vita or resume.

Harris College of Nursing and Health Sciences recommends the following for admission to the Ph.D. program:

1. A minimum 3.5 grade point average (GPA) on all prior graduate level course work.
2. A completed course in statistics.

3. A completed graduate level research course.
4. A completed thesis or comparable project from the master's or higher prepared degree.

Individual units within Harris College may require the following, dependent on field-specific requirements:

1. A completed master's degree or higher in a related field from a program accredited by a nationally recognized accrediting body.
2. A current license to practice in a related field of study in the U.S. if applicable to the discipline.

Factors that will be considered in the admission decision include GPA on graduate level course work, research interest, scholarly activities, professional leadership, and work history. The GRE is not required, but students may choose to submit current scores.

In order to be considered for admission, please use the following application deadline. This is the deadline for all materials to be submitted including the application, all transcripts, reference letters, CV, and letter discussing research interest area and professional goals.

Semester for Admission:

Fall

Submit application no later than:

Feb. 1

PhD Program Requirements

Degree Requirements:

54 credit hours of graduate course work must be taken at TCU. Up to 3 graduate-level courses may be transferred from another school or internally from a pre-PhD graduate degree program allowing a student to meet specific programmatic requirements.

1. 19 credit hours of basic research skills (of which at least nine credit hours include research analysis coursework such as Experimental Design, Mixed Methods, Ethnography, Qualitative Techniques, Regression Analysis, and so on).
2. 18 credit hours in emphasis courses
3. Two years of pre-dissertation research
4. Written and oral qualifying exam
5. 12 hours minimum in dissertation
6. Teaching experience
7. PhD dissertation

Curriculum Sequence

Research Sequencing within the Curriculum Summary:

Year 1: Exposure to different basic research skills obtained through six HCHS courses (exposure to different research labs, writing styles, research methods, statistical designs, faculty from different disciplines within the chosen track). These research courses are bolded on the curriculum sequencing chart below.

Year 2: One research seminar course per semester with the purpose of aligning the student's research interests developed in year 1 with a faculty mentor, if not already established. This year will include heavy involvement in all areas of a faculty mentor's research. The student will also be developing ideas for the dissertation topic.

Year 3: 12 hours of dissertation – minimum to complete degree

Year 1

Fall

HCHS 70112	Philosophy of Science	2
HCHS 60712	Learning and Instruction	2

HCHS 60021	Research Seminar: Responsible Conduct in Research	1
HCHS 80213	Quantitative/Qualitative Methods	3

Spring

HCHS 60783	Teaching Practicum	3
HCHS 60260	Research Seminar: Skills and Techniques	1-2
HCHS 80223	Intermediate Statistics	3
HCHS	Emphasis Course	TBD

Summer

HCHS 70233	Scientific & Grant Writing in the Health Sciences	3
HCHS	Emphasis Course	TBD
HCHS	Emphasis Course	TBD

Year 2**Fall**

HCHS 80233	Advanced Statistics	3
HCHS 60260	Research Seminar: Skills and Techniques	1-2
HCHS	Emphasis Course	TBD

Spring

HCHS	Emphasis Course	TBD
HCHS	Emphasis Course	TBD
HCHS 60260	Research Seminar: Skills and Techniques	1-2

Summer

HCHS 60260	Research Seminar: Skills and Techniques	1-2
HCHS	Comp Exams	

Year 3**Fall**

HCHS 90980	Dissertation	1-20
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Spring

HCHS 90990	Dissertation	1-20
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Grade Requirements

1. A student must maintain a minimum cumulative GPA of 3.0 in order to remain in good standing in the Ph.D. program. A student whose cumulative GPA falls below a 3.0 goes on academic warning and will have the next long semester, or subsequent summer enrollment, to raise their GPA to a 3.0.
2. A student who has earned a grade of "B-" or lower in two Ph.D. courses at the graduate level or who has earned a grade of "B-" or lower twice in the same graduate level course will be removed from the program. For the purpose of removal, a grade of "B-" or lower is counted in the student's academic record, even if the course has been successfully repeated with a grade of "B" or better.
3. A student who receives an "F" in any course, he/she will be dismissed from the program.
4. A student who is admitted to the doctoral program provisionally, based on a low GPA, he/she must complete the first 8 semester credit hours of coursework with a grade of "B" or better in each course. A provisionally admitted student will be dismissed from the program if a grade of "B-" or lower is made in any course during the probationary period.

5. Valid grades are "C" or higher. A grade of "C-" and "D" are not valid grades in this program. Plus/minus grading is at the discretion of the instructor of record for "C" or higher grading.

Teaching Requirements

Teaching undergraduate courses is considered an important part of the graduate training program. Each student is required to participate in two semesters of teaching (equivalent of 3 credit hours of undergraduate coursework per semester). In order to teach in years 2 and 3 of the PhD program, each student must successfully meet the pedagogy I and II course requirements and pass each of those courses with a B or better before moving into the teaching phase. If the teaching requirements are not met, the student will be dismissed from the program.

Residency Requirements

Students are expected to complete a minimum of five consecutive semesters (first two years) of full-time graduate study at Texas Christian University prior to comprehensive exams. Doctoral students holding appointments as teaching fellows or research assistants are considered full-time students for purposes of the residency requirement, provided that the time beyond that required by their appointments is devoted fully to their graduate program. In order to graduate, students must be registered in at least one hour of dissertation during the semester in which they complete degree requirements, and demonstrated enrollment in the semester prior to degree completion as well.

For those accepting a TCU assistantship, the 54 hours as outlined in the curriculum sequence table above must be completed in three consecutive years. If this requirement is not met, a student may continue toward completion of the 54 hours; however, he/she will be required to cover the cost of tuition.

Candidacy Requirements

Upon successful completion of the written and oral comprehensive examinations, a student is accepted to candidacy. The maximum period allowable between matriculation and acceptance to candidacy will be three years. Once in candidacy, a student will have three years to complete the dissertation requirements successfully; this period can be extended only if approved by the Oversight Committee, Major Advisor and the Harris College Associate Dean for Research.

Written and Oral Comprehensive Examinations

After the 42 hours are completed as stipulated in the curriculum sequence chart of non-dissertation courses, each student must pass a written and oral comprehensive examination with a Comprehensive Examination Committee (CEC) comprised of faculty involved in the student's coursework to be evaluated. The Associate Dean for Research appoints the CEC in consultation with the Major Advisor, Oversight Committee, and student. These examinations will be written with an oral examination follow up and will be scheduled for the summer after completion of the coursework. Ordinarily, the written and oral comprehensive exams should be completed within one academic semester of completing course work. The student can only advance to candidacy once both exams have been passed. If the written exam is failed a second time or the oral exam is failed, the student will be dismissed from the program. The PhD in Health Sciences Handbook includes more specific details about the written and oral comprehensive exam procedures.

Dissertation Requirements

The dissertation is based on the successful completion of an original research project. Each student defends his/her dissertation in an oral examination before his/her dissertation chair and committee. Faculty and students are permitted to attend the dissertation defense. Twelve hours of credit is required minimally before the oral exam may be scheduled and defended.

*The PhD in Health Sciences Oversight Committee will be comprised of the Harris College academic department chairs or designee and the Associate Dean for Research.

Master of Science in Nursing

TCU graduate Nursing offers an innovative online Master of Science in Nursing (MSN).

One major comprises the degree program: Nursing Education. There are two role foci for the Nursing Education major: Adult Gerontology or Pediatric.

All didactic coursework is offered online. Clinical practicum and teaching practicum courses are supervised by Nursing faculty in concert with qualified preceptors. Generally, students complete their practicum courses in agencies located in their geographic area. If adequate practicum or preceptor resources are not available in the student's geographic area, concentrated practicum experiences are available in the Fort Worth area.

Admission

Admission is competitive. An individualized approach is used to identify applicants with demonstrated academic achievement and potential, who have strong motivation to succeed in academic study and professional practice, and the potential to function as a leader in advanced practice, nursing administration, healthcare delivery, or nursing education. The applicant's GPA, writing and speaking skills, and professional experience are used to assess applicants for admission. A profile of each applicant is developed based on an admission portfolio consisting of:

- Completed online application that includes:
- One official transcript from **all colleges or universities attended** with a preferred cumulative GPA of 3.0 (on a 4.0 scale) from the baccalaureate nursing program. (International transcripts should be sent with an evaluation from a transcript credentialing service.)
- Resume or curriculum vita.
- Personal statement – should demonstrate written communication skills, not be more than 2 pages double spaced and should address specific personal, academic and/or professional strengths and/or accomplishments and how these qualify you as a strong candidate for the MSN program, and why you are interested in a MSN from TCU.
- Three professional references (should be from a supervisor, previous faculty, or other professional reference).
- Baccalaureate degree in nursing from an accredited school or university.
- Evidence of current unencumbered licensure in the state of Texas or the state in which practicum course work will occur.
- Evidence of current certification of American Heart Association BLS for Healthcare Provider and immunization history that meets the DFW Hospital Council requirements.
- A preferred work history that includes one year of full-time experience or its equivalent as a registered nurse. New graduates will be considered based on GPA and faculty letters of reference.
- Applicants for whom English is a second language, demonstrated English language proficiency is measured by a score of at least 600 on the Test of Spoken English as a Foreign Language (TOEFL) and a score of 6 on the institutional version of the Test of Spoken English (TSE).

Upon admission, all students must present satisfactory evidence of the following:

1. Immunizations
 - Tetanus/diphtheria (TD): Must have DTaP if the immunization is more than two years old.
 - Measles: Those born since Jan. 1, 1957, must have two doses since 12 months of age. The doses must be at least 30 days apart.
 - Mumps: Those born since Jan. 1, 1957, must have two doses since 12 months of age. The doses must be at least 30 days apart.
 - Rubella: Those born since Jan. 1, 1957, must have two doses since 12 months of age. The doses must be at least 30 days apart.
 - Hepatitis B: The completed three-dose series must be received before contact with clients in practica.

- Varicella (chickenpox): All practicum students must document evidence of immunity to varicella. This requirement may be met by either: 1) documentation of varicella immunization. (Immunization for adolescents and adults is a series of two doses 4-8 weeks apart); or 2) positive varicella titer.
- Annual seasonal and other recommended influenza vaccination or declination forms on file.

2. Current health insurance coverage.
3. Current certification by American Heart Association BLS for Healthcare Provider.
4. Negative TB skin test (two-step method), QuantiFERON-TB Gold Plus or negative chest x-ray within the last 12 months (provided annually).
5. Acceptable results from a drug screening test and a criminal background check within the 30 days prior to beginning practicum course-work. Screening tests and background checks must be completed by TCU nursing approved vendors. CPR and TB cannot expire at any point during the semester once the student begins clinical courses

If accepted, a \$250 non-refundable deposit is due with a completed Intent to Enroll form to hold your position. The \$250 deposit will be applied to your student account after your second successful semester.

A map of where TCU is authorized to offer distance education activities, including enrolling out-of-state students and allowing current TCU students to complete experiential learning placements is available <https://cte.tcu.edu/distance-learning/state-authorization-map/>

Academic Standards

Students must maintain a GPA of at least 3.0 in accordance with provisions described under "Academic Warning." All grades are included in the computation of the GPA, but no more than one grade of "C" or lower may be utilized in satisfying degree requirements. Students who achieve a GPA of less than 3.0 in any semester or term will be placed on academic warning. Students can be removed from that status by achieving a 3.0 cumulative average by the end of the next six hours of enrollment. If a student should fail to do so, further enrollment will be granted only by special recommendation of the Division Director of Graduate Nursing and with permission of the Associate Dean for Nursing and Dean of the Harris College of Nursing and Health Sciences.

An "I" (incomplete) grade is recorded when the student and instructor have determined that the work required for a course cannot be completed within the term of enrollment due to circumstances beyond the student's control. Under no circumstances will a grade of "I" be given to avoid earning an "F" for the course.

The "I" grade must be removed within the first 60 days of the regular semester immediately following or it is changed to an "F." Any extension of this time must have written approval of the instructor and the Associate Dean for Nursing.

Until the "I" grade is removed, progression in the program will be at the discretion of the Division Director of Graduate Nursing.

Grade Point Average

Two GPAs are maintained by TCU:

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 GPA is computed by dividing the number of grade points (grade points 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).

Nursing Education, MSN

Requirements

The 34 hour curriculum comprises 29 semester hours of didactic coursework, 2 semester hours of clinical practicum and 3 semester hours of teaching practicum. The Nursing Education program offers Adult-Gerontology or Pediatric focus.

Required Coursework

NURS 50003

Advanced Pathophysiology

NURS 50013	Advanced Health Assessment	3
NURS 50053	Advanced Pharmacotherapeutics	3
NURS 60013	Health Care Policy, Law and Ethics	3
NURS 60043	Advanced Nursing Research and Theory	3
NURS 60443	Financial Concepts in Health Care	3
NCNS 60412	Advanced Care of Adult-Gerontology Populations	2
	or	
NCNS 60712	Advanced Care of Pediatric Populations	2
NCNS 60492	Advanced Care of Adult-Gerontology Populations Practicum	2
	or	
NCNS 60782	Advanced Care of Pediatric Populations Practicum	2
NUED 60713	Learning and Instruction in Nursing Education	3
NUED 60723	Curriculum and Program Development in Nursing Education	3
NUED 60733	Evaluation in Nursing Education	3
NUED 60783	Teaching Practicum	3

Doctor of Nursing Practice

The Doctor of Nursing Practice (DNP) is an innovative, solution-focused program designed to prepare students to assume clinical leadership positions in a variety of healthcare, business, government and educational organizations.

This practice doctorate in nursing provides the terminal academic preparation for nursing practice.

TCU Nursing offers two pathways to the Doctor of Nursing Practice degree:

- Executive Nurse Leadership & Practice (MSN to DNP)
- Post-baccalaureate (BSN to DNP)

Executive Leadership & Practice DNP (MSN to DNP) (effective January 2023)

TCU Nursing Executive Nurse Leadership & Practice (ENLP) DNP is an online practice doctorate that prepares nurses with a Master's degree in nursing (MSN) or related field (e.g., MBA, MHA, MPH, Leadership, etc.) for this terminal degree who are actively engaged in nursing practice to be exceptional health care leaders and experts in advanced nursing practice.

The ENLP DNP degree may be completed in two years of full-time study or three years part-time study. The degree is composed of didactic, practicum, and four courses focused on fulfilling the DNP Scholarly Project requirements.

Requirements for Master's preparation are as follows:

Advanced Practice Registered Nurses

A Master's degree from an accredited program and current recognition as an advanced practice registered nurse by appropriate certification and licensing boards are required for admission to the advanced practice track. TCU's program is open to all advanced practice roles: Clinical Nurse Specialists, Nurse Practitioners, Certified Registered Nurse Anesthetists, and Certified Nurse Midwives. All students are required to maintain their advanced practice recognition through practice requirements defined by appropriate certification and licensing boards during the program.

Nurse Administrators/Executives

For direct matriculation into the DNP nursing administration track, a Master's degree in nursing administration and current registered nurse licensure. Employment in an administrative role or prior experience in

this role is preferred. A Master's degree in business administration (MBA), healthcare administration (HCA), or other leadership Master's will be considered on an individual basis. If accepted to the program, a leveling course in nursing research and theory (1 credit hour) for those whose Master's degree is not in nursing will be required prior to beginning the DNP courses.

Other Master's-Prepared Nurses

Nurses with an MSN with a focus other than advanced practice or administration are eligible and welcome to apply. All applicants with an MSN other than in advanced practice and administration will be reviewed on an individual basis and a gap analysis will be performed to determine if additional course work is required prior to admission to the DNP program.

Admission Requirements

Students will be selected based on the evaluation of a portfolio of evidence to include the following:

- Completed online application that includes:
 - One official transcript from **all colleges or universities attended** with a preferred cumulative GPA of 3.0 (on a 4.0 scale) from the baccalaureate nursing program. (International transcripts should be sent with an evaluation from a transcript credentialing service.)
 - Resume or curriculum vita.
 - Personal statement-should demonstrate written communication skills, not be more than 2 pages double spaced and should address 1) specific personal, academic and/or professional strengths and/or accomplishments and how these qualify you as a strong candidate for the DNP program, 2) why you are interested in a clinical doctorate from TCU, 3) an overview of your proposed area of interest for your final DNP scholarly project.
- Three professional references (should be from a supervisor, previous faculty, or other professional reference).
- Master's degree in nursing or related field from an accredited school or university and a minimum GPA of at least 3.0 on a 4.0 scale. All applicants must hold a BSN in addition to a Master's degree.
- Current unencumbered license to practice in the state of Texas or the state in which practicum coursework will occur.
- Current CPR certification of American Heart Association BLS for Healthcare Provider and immunization history that meets DFW Hospital Council requirements.
- Satisfactory completion of an interview.
- For applicants whose Master's is NOT in nursing administration or advanced practice, additional course work may be required based on a gap analysis of previous educational preparation.)
- Applicants for whom English is a second language: a score of at least 600 on the Test of Spoken English as a Foreign Language (TOEFL) and/or a score of 6 on the institutional version of the Test of Spoken English (TSE) within the last 2 years.

Upon admission, students must present satisfactory evidence of the following:

1. Immunizations:
 - Tetanus/diphtheria (TD): Must have DTaP if the immunization is more than two years old.
 - Measles: Those born since Jan. 1, 1957, must have two doses since 12 months of age. The doses must be at least 30 days apart.
 - Mumps: Those born since Jan. 1, 1957, must have two doses since 12 months of age. The doses must be at least 30 days apart.
 - Rubella: Those born since Jan. 1, 1957, must have two doses since 12 months of age. The doses must be at least 30 days apart.
 - Hepatitis B: The completed three-dose series must be received before contact with clients in practice.
 - Varicella (chickenpox): All practicum students must document evidence of immunity to varicella. This requirement may be met by either: 1) documentation of varicella immunization (immunization for adolescents and adults is a series of two doses 4-8 weeks apart); or 2) positive varicella titer.
- Annual seasonal and other recommended influenza vaccination or declination forms on file.

2. Current health insurance coverage.
3. Current certification of American Heart Association BLS for Healthcare Provider.
4. Negative TB skin test (two-step method), Quanti-FERON-TB Gold Plus, or negative chest x-ray within the last 12 months (provided annually).

CPR and TB cannot expire at any point during the semester.

Acceptable results from a drug screening test and a criminal background check within the 30 days prior to beginning DNP project coursework. Screening tests and background checks must be completed by TCU Nursing approved vendors.

All submitted materials become the property of TCU.

If accepted, a \$250 non-refundable deposit is due with a completed Intent to Enroll form to hold your position. The \$250 deposit will be applied to your student account after your second successful semester.

Information about distance learning and state authorization reciprocity agreements (SARA) for your graduate nursing program can be found at cte.tcu.edu/distance-learning/resources-for-distance-learning-students.

Pass/No-Credit

Pass/no-credit courses are disregarded in the calculation of the student's GPA.

Requirements

The ENLP DNP degree requires a minimum of 34 semester hours of coursework for completion. Students must maintain a 3.0 GPA throughout the program. Minimum coursework requirements are:

Courses

NDNP 81103	Role of the DNP in Health Care	3
NDNP 81123	Health Care Data Management & Analysis	3
NDNP 81133	Systems & Organization Leadership	3
NDNP 81143	Population Health & Epidemiology	3
NDNP 81222	Synthesis in Evidence-Based Practice	2
NDNP 81113	Health Innovation & Complexity Science	3
NDNP 81353	Health Policy, Finance & Econ	3
NDNP 81242	Translation in Evidence-Based Practice	2
NDNP 81233	Health Informatics & Technology	3
NDNP 81252	Leadership in Complex Health Environments	2
NDNP 81282	Advanced Leadership Practicum	2
NDNP 88061	DNP Scholarly Project I	1
NDNP 88071	DNP Scholarly Project II	1
NDNP 88182	DNP Scholarly Project III	2
NDNP 88191	DNP Scholarly Project IV	1

A student must complete the ENLP DNP degree within five academic years from the semester they first began coursework. Extension of time must be applied for in writing to the Director of Graduate Nursing, who will then make a recommendation to the Associate Dean for Nursing & Nurse Anesthesia. The letter should explain why the degree was not completed within the time limit and should present a schedule for completing the program. Additional courses may be assigned to students who do not complete the degree within the time limit.

Academic Standards

Students must maintain a GPA of at least 3.0 in accordance with provisions described under "Academic Warning." All grades are included in the computation of the GPA, but no more than one grade of "C" or lower may be utilized in satisfying degree requirements. Students who achieve a GPA of less than 3.0 in any semester or term will be placed on academic warning. Students can be removed from that status by achieving a 3.0 cumulative average by the end of the next six hours of enrollment. If a student should fail to do so, further enrollment will be granted only by the special recommendation of the Division Director of Graduate Nursing and with permission of the Associate Dean for Nursing and Dean of the Harris College of Nursing and Health Sciences.

An "I" (incomplete) grade is recorded when the student and instructor have determined that the work required for a course cannot be completed within the term of enrollment due to circumstances beyond the student's control. Under no circumstances will a grade of "I" be given to avoid earning an "F" for the course.

The "I" grade must be removed within the first 60 days of the regular semester immediately following or it is changed to an "F." Any extension of this time must have written approval of the instructor and the Associate Dean for Nursing.

Until the "I" grade is removed, progression in the program will be at the discretion of the Division Director of Graduate Nursing.

The practicum and project must be completed within two academic years.

Grade Point Average

Two GPAs are maintained by TCU:

A semester average based on courses taken at TCU during a particular term; and a cumulative average based on all work attempted at TCU.

A student's GPA is computed by dividing the number of grade points (grade points 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).

Post-Baccalaureate DNP (BSN to DNP)

The TCU nursing post-baccalaureate DNP is a practice doctorate designed to prepare advanced practice registered nurses (APRNs).

The following programs are offered:

- Family Nurse Practitioner (FNP)
- Adult-Gerontology Acute Care Nurse Practitioner (AGACNP)
- Psychiatric Mental Health Nurse Practitioner (PMHNP)
- Pediatric Clinical Nurse Specialist (CNS)

A baccalaureate degree in nursing from an accredited school or university and evidence of current licensure is required for admission. All students are required to maintain current unencumbered licensure throughout the program.

The post-baccalaureate DNP degree may be completed in three years (36 months) or up to four years. The first year of the program is composed of didactic courses providing core knowledge and skills required for the doctorally prepared APRN. The second and third year of study focus on the didactic/clinical population focus courses, and fulfillment of practice and final project requirements.

All didactic coursework is offered online. Clinical practicum courses are supervised by TCU nursing faculty in concert with qualified preceptors. Generally, students complete their practicum courses in clinical settings located in their geographic area. If adequate practicum or preceptor resources are not available in the student's geographic area, practicum experiences are available in the Fort Worth area.

On campus requirements include a two-day orientation at the beginning of the program and participation in clinical training and skills assessments during On Campus Intensives (OCIs) scheduled throughout the program.

Admission Requirements

- Only accepting students licensed and residing in Texas and New Mexico at this time.
- Completed online application that includes:
- One official transcript from **all colleges and universities attended** with a preferred cumulative GPA of 3.0 (on a 4.0 scale) from the baccalaureate nursing program. (International transcripts should be sent with an evaluation from a transcript credentialing service.)
- Resume or curriculum vita.
- Personal statement should demonstrate written communication skills, not be more than 2 pages double spaced and should address 1) specific personal, academic and/or professional strengths and/or accomplishments and how these qualify you as a strong candidate for the DNP program, and 2) why you are interested in a clinical doctorate from TCU, and 3) an overview of your proposed area of interest for your final scholarly project.
- Three professional references (should be from a supervisor, previous faculty, or other professional reference)

- BSN from an accredited school or university
- Current unencumbered licensure in the state of Texas or the state in which practicum coursework will occur. *At this time, we are only accepting Texas and New Mexico residents for the CNS and NP programs.
- Current CPR certification of American Heart Association BLS for Healthcare Provider and immunization history that meets DFW Hospital Council requirements.
- Applicants for whom English is a second language: a score of at least a 600 on the Test of English as a Foreign Language (TOEFL) and a score of 6 on the institutional version of the Test of Spoken English (TSE) within the past two years.
- Satisfactory completion of an interview
- Work History

FNP, PMHNP and CNS: A preferred work history that includes one year of full-time experience or its equivalent as a registered nurse.

AGACNP: Required two years of full-time experience or the equivalent as a registered nurse in an emergency department or critical care setting.

Acceptable results from a drug screening test and a criminal background check within the 30 days prior to beginning practicum coursework. Screening tests and background checks must be completed by TCU Nursing approved vendors.

All submitted materials become the property of TCU.

If accepted, a \$250 non-refundable deposit is due with a completed the Intent to Enroll form to hold your position. The \$250 deposit will be applied to your student account after successful completion of your second semester.

Information about distance learning and state authorization reciprocity agreements (SARA) for your graduate nursing program can be found at cte.tcu.edu/distance-learning/resources-for-distance-learning-students. State Boards of Nursing set standards for licensure. Some State Boards also require approval of programs leading to an advanced practice certification. It is highly recommended that students admitted to Post-Baccalaureate BSN to DNP, Masters, Post Master's Certificate, and DNP programs at TCU contact their home state's Board of Nursing to verify that the desired program and its graduates will meet the eligibility criteria for approval for those credentials. Be aware that state licensure requirements may change from time-to-time and that states may have conditions for licensure in addition to educational requirements. The following site contains links to state licensing boards in nursing <https://www.ncsbn.org/contact-bon.htm>.

Upon admissions, students must present satisfactory evidence of the following:

1. Immunizations:

- Tetanus/diphtheria (TD): Must have DTaP if the immunization is more than two years old.
- Measles: Those born since Jan. 1, 1957, must have two doses since 12 months of age. The doses must be at least 30 days apart.
- Mumps: Those born since Jan. 1, 1957, must have two doses since 12 months of age. The doses must be at least 30 days apart.
- Rubella: Those born since Jan. 1, 1957, must have two doses since 12 months of age. The doses must be at least 30 days apart.
- Hepatitis B: The completed three-dose series must be received before contact with clients in practice.
- Varicella (chickenpox): All practicum students must document evidence of immunity to varicella. This requirement may be met by either: 1) documentation of varicella immunization (immunization for adolescents and adults is a series of two doses 4-8 weeks apart); or 2) positive varicella titer.
- Annual seasonal and other recommended influenza vaccination or declination forms on file.

2. Current health insurance coverage.

3. Current certification of American Heart Association BLS for Healthcare Provider.

4. Negative TB skin test (two-step method), Quanti-FERON-TB Gold Plus, or negative chest x-ray within the last 12 months (provided annually).

CPR and TB cannot expire at any point during the semester.

Transfer Credit

For BSN to DNP up to six approved transfer credit hours can be used to 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.

Family Nurse Practitioner (FNP)

The DNP Family Nurse Practitioner program prepares graduates to provide comprehensive primary health care to individuals and families throughout the lifespan and across the continuum of health. Program emphasis is on health promotion, preventive health services, health education and counseling, and diagnosis and management of acute episodic and chronic illnesses to include prescribing medications and treatments. Interprofessional collaboration with the health care team is integrated throughout the curriculum.

Graduates will be eligible for national certification through the American Nurses Credentialing Center (ANCC) and the American Academy of Nurse Practitioners Certification Program (AANPCP).

Requirements

The BSN to DNP Family Nurse Practitioner Program requires a total of 70 semester hours of coursework for completion. The curriculum comprises 56 hours didactic coursework and 14 hours of clinical practicum. Students may complete the program of study in three years (36 months) or four years (48 months).

Required Coursework

NURS 50003	Advanced Pathophysiology	3
NURS 50013	Advanced Health Assessment	3
NURS 50022	Advanced Practice Roles	2
NURS 50053	Advanced Pharmacotherapeutics	3
NAPN 84202	Promoting Health and Wellness in Primary Care	2
NAPN 84212	Business and Legal Aspects for the Nurse Practitioner	2
NAPN 84223	Diag Methods & Procedures APRN	3
NAPN 84213	Primary Care Adult-Gerontology I	3
NAPN 84283	FNP Practicum I	3
NAPN 84383	FNP Practicum II	3
NAPN 84333	Primary Care of the Young Family	3
NAPN 84393	FNP Practicum III	3
NAPN 84385	FNP Practicum IV	5
NDNP 86712	Foundations of Evidence-Based Practice and Research	2
NDNP 81113	Health Innovation & Complexity Science	3
NDNP 81123	Health Care Data Management & Analysis	3
NDNP 81143	Population Health & Epidemiology	3
NDNP 81233	Health Informatics & Technology	3
NDNP 81222	Synthesis in Evidence-Based Practice	2
NDNP 81242	Translation in Evidence-Based Practice	2
NDNP 81353	Health Policy, Finance & Econ	3
NDNP 81133	Systems & Organization Leadership	3
NDNP 88061	DNP Scholarly Project I	1

NDNP 88071	DNP Scholarly Project II	1	NURS 50013	Advanced Health Assessment	3
NDNP 88182	DNP Scholarly Project III	2	NURS 50022	Advanced Practice Roles	2
NDNP 88191	DNP Scholarly Project IV	1	NURS 50053	Advanced Pharmacotherapeutics	3

A student must complete the BSN to DNP degree within six academic years from the semester they first began coursework. Extension of time must be applied for in writing to the Division Director of Graduate Nursing, who will then make a recommendation to the Associate Dean for Nursing. The letter should explain why the degree was not completed within the time limit and should present a schedule for completing the program. Additional courses may be assigned to students who do not complete the degree within the time limit.

Academic Standards

Students must maintain a GPA of at least 3.0 in accordance with provisions described under "Academic Warning." All grades are included in the computation of the GPA, but no more than one grade of "C" or lower may be utilized in satisfying degree requirements. Students who achieve a GPA of less than 3.0 in any semester or term will be placed on academic warning. Students can be removed from that status by achieving a 3.0 cumulative average by the end of the next six hours of enrollment. If a student should fail to do so, further enrollment will be granted only by the special recommendation of the Division Director of Graduate Nursing and with permission of the Associate Dean for Nursing.

An "I" (incomplete) grade is recorded when the student and instructor have determined that the work required for a course cannot be completed within the term of enrollment due to circumstances beyond the student's control. Under no circumstances will a grade of "I" be given to avoid earning an "F" for the course.

The "I" grade must be removed within the first 60 days of the regular semester immediately following or it is changed to an "F." Any extension of this time must have written approval of the instructor and the Associate Dean for Nursing.

Until the "I" grade is removed, progression in the program will be at the discretion of the Division Director of Graduate Nursing.

The practicum and project must be completed within two academic years.

Grade Point Average

Two GPAs are maintained by TCU:

A semester average based on courses taken at TCU during a particular term; and a cumulative average based on all work attempted at TCU.

A student's GPA is computed by dividing the number of grade points (grade points 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).

Adult Gerontology Acute Care Nurse Practitioner (AGACNP)

The DNP Adult-Gerontology Acute Care Nurse Practitioner program prepares graduates to provide comprehensive health care to chronically, acutely or critically ill young adults, adults, and elders in the continuum of acute care services. Program emphasis is on working with a multidisciplinary team to facilitate and accelerate the patient's return to optimal health and to manage health and illness in the context of individuals, families, health care settings, and society.

Graduates will be eligible for national certification through the American Association of Critical-Care Nurses (AACN) or the American Nurses Credentialing Center (ANCC).

Requirements

The BSN to DNP Adult-Gerontology Acute Care Nurse Practitioner Program requires a total of 70 semester hours of coursework for completion. The curriculum comprises 56 hours of didactic coursework and 14 hours of clinical practicum. Students may complete the program of study in three years (36 months) or four years (48 months).

Required Coursework

NURS 50003	Advanced Pathophysiology	3
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NURS 50013	Advanced Health Assessment	3
NURS 50022	Advanced Practice Roles	2
NURS 50053	Advanced Pharmacotherapeutics	3
NAPN 84202	Promoting Health and Wellness in Primary Care	2
NAPN 84212	Business and Legal Aspects for the Nurse Practitioner	2
NAPN 84223	Diag Methods & Procedures APRN	3
NAPN 84213	Primary Care Adult-Gerontology I	3
NAPN 85183	Intro to Acute Care Adult-Gerontology Practicum	3
NAPN 85213	Acute Care Adult-Gerontology I	3
NAPN 85223	Acute Care Adult-Gerontology II	3
85283	Acute Care Adult-Gerontology I Practicum	3
85383	Acute Care Adult-Gerontology II Practicum	2
85385	Acute Care Adult-Gerontology III Practicum	3
NDNP 81113	Complexity and Innovation in Healthcare	3
NDNP 81123	Biostatistics for the Advanced Health Practitioner	3
NDNP 81143	Population Health & Epidemiology	3
NDNP 81222	Synthesis in Evidence-Based Practice	2
NDNP 81233	Decision Science and Informatics	3
NDNP 81242	Translation in Evidence-Based Practice	2
NDNP 81353	Health Care Policy and Politics	3
NDNP 81133	Systems & Organization Leadership	3
NDNP 86712	Foundations of Evidence-Based Practice and Research	2
NDNP 88061	DNP Scholarly Project I	1
NDNP 88071	DNP Scholarly Project II	1
NDNP 88182	DNP Scholarly Project III	2
NDNP 88191	DNP Scholarly Project IV	1

A student must complete the BSN to DNP degree within six academic years from the semester they first began coursework. Extension of time must be applied for in writing to the Division Director of Graduate Nursing, who will then make a recommendation to the Associate Dean for Nursing. The letter should explain why the degree was not completed within the time limit and should present a schedule for completing the program. Additional courses may be assigned to students who do not complete the degree within the time limit.

Academic Standards

Students must maintain a GPA of at least 3.0 in accordance with provisions described under "Academic Warning." All grades are included in the computation of the GPA, but no more than one grade of "C" or lower may be utilized in satisfying degree requirements. Students who achieve a GPA of less than 3.0 in any semester or term will be placed on academic warning. Students can be removed from that status by achieving a 3.0 cumulative average by the end of the next six hours of enrollment. If a student should fail to do so, further enrollment will be granted only by the special recommendation of the Division Director of Graduate Nursing and with permission of the Associate Dean for Nursing.

An "I" (incomplete) grade is recorded when the student and instructor have determined that the work required for a course cannot be completed within the term of enrollment due to circumstances beyond the student's control. Under no circumstances will a grade of "I" be given to avoid earning an "F" for the course.

The "I" grade must be removed within the first 60 days of the regular semester immediately following or it is changed to an "F." Any extension of this time must have written approval of the instructor and the Associate Dean for Nursing.

Until the "I" grade is removed, progression in the program will be at the discretion of the Division Director of Graduate Nursing.

The practicum and project must be completed within two academic years.

Grade Point Average

Two GPAs are maintained by TCU:

A semester average based on courses taken at TCU during a particular term; and a cumulative average based on all work attempted at TCU.

A student's GPA is computed by dividing the number of grade points (grade points 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).

Psychiatric-Mental Health Nurse Practitioner (PMHNP)

The DNP Psychiatric-Mental Health Nurse Practitioner program prepares graduates to provide comprehensive primary mental health care across the lifespan to those at risk for developing and/or having a diagnosis of psychiatric disorders or mental health problems. Program emphasis is on working with a multidisciplinary team to facilitate and accelerate the patient's return to optimal health and manage mental health in the context of individuals, families, health care settings, and society.

Graduates will be eligible for national certification through the American Nurses Credentialing Center (ANCC).

Requirements

The BSN to DNP Psychiatric-Mental Health Nurse Practitioner program requires 70 semester hours of coursework for completion. The curriculum has 55 hours of didactic coursework and 15 hours of clinical practicum. Students may complete the program of study in three years (36 months) or four years (48 months).

Required Coursework

NURS 50003	Advanced Pathophysiology	3
NURS 50013	Advanced Health Assessment	3
NURS 50022	Advanced Practice Roles	2
NURS 50053	Advanced Pharmacotherapeutics	3
NAPN 86212	Psychotherapy Concepts for the Psychiatric-Mental Health Nurse Practitioner	2
NAPN 84223	Diag Methods & Procedures APRN	3
NAPN 84212	Business and Legal Aspects for the Nurse Practitioner	2
NAPN 86222	Neurobiology of Mental Illness: Lifespan	2
NAPN 86213	Psychopharmacology for the Psychiatric-Mental Health Nurse Practitioner	3
NAPN 86223	Psychiatric Care of Adult and Geriatric Populations	3
NAPN 86283	Advanced Clinical Practicum I Psychiatric-Mental Health: Adult and Geriatric Population	3
NAPN 86333	Psychiatric Care of Children and Adolescents	3
NAPN 86383	Advanced Clinical Practicum II Psychiatric-Mental Health: Children and Adolescents	3
NAPN 86386	PMH Practicum III	6
NDNP 81113	Complexity and Innovation in Healthcare	3
NDNP 81123	Biostatistics for the Advanced Health Practitioner	3
NDNP 81143	Population Health & Epidemiology	3
NDNP 81222	Synthesis in Evidence-Based Practice	2
NDNP 81233	Decision Science and Informatics	3

NDNP 81242	Translation in Evidence-Based Practice	2
NDNP 81353	Health Care Policy and Politics	3
NDNP 81133	Systems & Organization Leadership	3
NDNP 86712	Foundations of Evidence-Based Practice and Research	2
NDNP 88061	DNP Scholarly Project I	1
NDNP 88071	DNP Scholarly Project II	1
NDNP 88182	DNP Project III	2
NDNP 88191	DNP Scholarly Project IV	1

A student must complete the BSN to DNP degree within six academic years from the semester they first began coursework. Extension of time must be applied for in writing to the Division Director of Graduate Nursing, who will then make a recommendation to the Associate Dean for Nursing. The letter should explain why the degree was not completed within the time limit and should present a schedule for completing the program. Additional courses may be assigned to students who do not complete the degree within the time limit.

Academic Standards

Students must maintain a GPA of at least 3.0 in accordance with provisions described under "Academic Warning." All grades are included in the computation of the GPA, but no more than one grade of "C" or lower may be utilized in satisfying degree requirements. Students who achieve a GPA of less than 3.0 in any semester or term will be placed on academic warning. Students can be removed from that status by achieving a 3.0 cumulative average by the end of the next six hours of enrollment. If a student should fail to do so, further enrollment will be granted only by the special recommendation of the Division Director of Graduate Nursing and with permission of the Associate Dean for Nursing.

An "I" (incomplete) grade is recorded when the student and instructor have determined that the work required for a course cannot be completed within the term of enrollment due to circumstances beyond the student's control. Under no circumstances will a grade of "I" be given to avoid earning an "F" for the course.

The "I" grade must be removed within the first 60 days of the regular semester immediately following or it is changed to an "F." Any extension of this time must have written approval of the instructor and the Associate Dean for Nursing.

Until the "I" grade is removed, progression in the program will be at the discretion of the Division Director of Graduate Nursing.

The practicum and project must be completed within two academic years.

Grade Point Average

Two GPAs are maintained by TCU:

A semester average based on courses taken at TCU during a particular term; and a cumulative average based on all work attempted at TCU.

A student's GPA is computed by dividing the number of grade points (grade points 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).

Clinical Nurse Specialist (CNS)

The DNP Clinical Nursing Specialist program prepares graduates as expert clinicians in the pediatric of population nursing practice with preparation for medical diagnosis and treatment of disease, injury, and disability, including prescribing medications and treatments. The CNS influences care outcomes by providing expert consultation for nursing staffs and implementing improvements in health care delivery systems with a particular expertise in evidence-based practice, safety, and quality.

Graduates will be eligible for national certification through the American Association of Critical Care Nurses Certification Corporation (Pediatric).

Requirements

The BSN-to-DNP Clinical Nurse Specialist Program requires a total of 66 semester hours of coursework for completion. The curriculum has of 56 hours of didactic coursework, and 10 hours of clinical practicum.

Students may complete the program in three years (36 months) or four years (48 months).

Required Coursework

NURS 50003	Advanced Pathophysiology	3
NURS 50013	Advanced Health Assessment	3
NURS 50022	Advanced Practice Roles	2
NURS 50053	Advanced Pharmacotherapeutics	3
NURS 60443	Financial Concepts in Health Care	3
NCNS 60712	Advanced Care of Pediatric Populations	2
NCNS 60782	Advanced Care of Pediatric Populations Practicum	2
NCNS 60512	The CNS and Professional Practice	2
NCNS 60582	The CNS and Professional Practice Practicum	2
NCNS 60613	CNS Concepts III	3
NCNS 60683	CNS Practicum III	3
NCNS 60723	Diagnostic Reasoning and Advanced Patient Management of the Pediatric patient	3
NCNS 60793	Diagnostic Reasoning and Advanced Patient Management of the Pediatric Patient Practicum	3
NAPN 84223	Diag Methods & Procedures APRN	3
NDNP 81113	Complexity and Innovation in Healthcare	3
NDNP 81123	Biostatistics for the Advanced Health Practitioner	3
NDNP 81143	Population Health & Epidemiology	3
NDNP 81222	Synthesis in Evidence-Based Practice	2
NDNP 81233	Decision Science and Informatics	3
NDNP 81242	Translation in Evidence-Based Practice	2
NDNP 81353	Health Care Policy and Politics	3
NDNP 81133	Systems & Organization Leadership	3
NDNP 86712	Foundations of Evidence-Based Practice and Research	2
NDNP 88071	DNP Scholarly Project II	1
NDNP 88182	DNP Project III	2
NDNP 88191	DNP Scholarly Project IV	1

A student must complete the BSN to DNP degree within six academic years from the semester they first began coursework. Extension of time must be applied for in writing to the Division Director of Graduate Nursing, who will then make a recommendation to the Associate Dean for Nursing. The letter should explain why the degree was not completed within the time limit and should present a schedule for completing the program. Additional courses may be assigned to students who do not complete the degree within the time limit.

Academic Standards

Students must maintain a GPA of at least 3.0 in accordance with provisions described under "Academic Warning." All grades are included in the computation of the GPA, but no more than one grade of "C" or lower may be utilized in satisfying degree requirements. Students who achieve a GPA of less than 3.0 in any semester or term will be placed on academic warning. Students can be removed from that status by achieving a 3.0 cumulative average by the end of the next six hours of enrollment. If a student should fail to do so, further enrollment will be granted only by the special recommendation of the Division Director of Graduate Nursing and with permission of the Associate Dean for Nursing.

An "I" (incomplete) grade is recorded when the student and instructor have determined that the work required for a course cannot be completed within the term of enrollment due to circumstances beyond the student's control. Under no circumstances will a grade of "I" be given to avoid earning an "F" for the course.

The "I" grade must be removed within the first 60 days of the regular semester immediately following or it is changed to an "F." Any extension of this time must have written approval of the instructor and the Associate Dean for Nursing.

Until the "I" grade is removed, progression in the program will be at the discretion of the Division Director of Graduate Nursing. The practicum and project must be completed within two academic years.

Grade Point Average

Two GPAs are maintained by TCU:

A semester average based on courses taken at TCU during a particular term; and a cumulative average based on all work attempted at TCU.

A student's GPA is computed by dividing the number of grade points (grade points 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).

Post-Graduate Certificates

A post-graduate certificate option is available in all majors for nurses with a previous PhD or a DNP from an NLNAC or CCNE accredited program. At this time, we are only accepting Texas and New Mexico residents.

The amount of coursework required for the post-graduate APRN certificates (CNS and NP roles) and other roles is determined by a gap analysis of previously-completed course work in your Master's or Doctorate of Nursing Practice degree, when the course work was completed, and Texas Board of Nursing (BON) requirements.

Admission Requirements

Completed online application that includes:

- One official transcript from **all colleges and universities attended** with a preferred cumulative GPA of 3.0 (on a 4.0 scale) from the baccalaureate nursing program. (International transcripts should be sent with an evaluation from a transcript credentialing service.)
- Resume or curriculum vita
- Personal statement-should demonstrate written communications skills, not be more than 2 pages double spaced and should address specific personal, academic and/or professional strengths and/or accomplishments and how these qualify you as a strong candidate for the Post-Graduate APRN Certificate Program, and why you are interested in a post-graduate certificate from TCU.
- Three professional references (should be from a supervisor, previous faculty, or other professional reference)
- BSN from an accredited school or university
- PhD or a DNP from an NLNAC or CCNE accredited program
- Work History
- Current unencumbered licensure in the state of Texas or the state in which practicum coursework will occur. *At this time, we are only accepting Texas and New Mexico residents for the CNS and NP programs.
- Current CPR certification of American Heart Association BLS for Healthcare Provider and immunization history that meets DFW Hospital Council requirements.
- Applicants for whom English is a second language: a score of at least a 600 on the Test of English as a Foreign Language (TOEFL) and a score of 6 on the institutional version of the Test of Spoken English (TSE) within the past two years.

Acceptable results from a drug screening test and a criminal background check within the 30 days prior to beginning practicum coursework. Screening tests and background checks must be completed by TCU Nursing approved vendors.

All submitted materials become the property of TCU.

If accepted, a \$250 non-refundable deposit is due with a completed the Intent to Enroll form to hold your position. The \$250 deposit will be applied to your student account after successful completion of your second semester.

Upon admission, students must present satisfactory evidence of the following:

1. Immunizations:
 - Tetanus/diphtheria (TD): Must have DTaP if the immunization is more than two years old.
 - Measles: Those born since Jan. 1, 1957, must have two doses since 12 months of age. The doses must be at least 30 days apart.
 - Mumps: Those born since Jan. 1, 1957, must have two doses since 12 months of age. The doses must be at least 30 days apart.
 - Rubella: Those born since Jan. 1, 1957, must have two doses since 12 months of age. The doses must be at least 30 days apart.
 - Hepatitis B: The completed three-dose series must be received before contact with clients in practica.
 - Varicella (chickenpox): All practicum students must document evidence of immunity to varicella. This requirement may be met by either: 1) documentation of varicella immunization (immunization for adolescents and adults is a series of two doses 4-8 weeks apart); or 2) positive varicella titer.
 - Annual seasonal and other recommended influenza vaccination or declination forms on file.
2. Current health insurance coverage.
3. Current certification of American Heart Association BLS for Healthcare Provider.
4. Negative TB skin test (two-step method), Quanti-FERON-TB Gold Plus, or negative chest x-ray within the last 12 months (provided annually).

Adult Gerontology Acute Care Nurse Practitioner (AGACNP) Post-Graduate APRN Certificate

The Post-Graduate Adult-Gerontology Acute Care Nurse Practitioner certificate prepares graduates to provide comprehensive health care to chronically, acutely or critically ill young adults, adults, and elders in the continuum of acute care services. Program emphasis is on working with a multidisciplinary team to facilitate and accelerate the patient's return to optimal health and manage health and illness in the context of individuals, families, health care settings, and society.

Graduates will be eligible for national certification through the American Association of Critical-Care Nurses (AACN) or the American Nurses Credentialing Center (ANCC).

The Adult-Gerontology Acute Care Nurse Practitioner Area of concentration requires a total of 17 semester hours of coursework for completion. The curriculum comprises 6 hours didactic coursework and 11 hours of clinical practicum. Students may complete the program of study in 1 year or 3 semesters.

Requirements

Required Coursework

NAPN 85213	Acute Care Adult-Gerontology I	3
85283	Acute Care Adult-Gerontology I Practicum	3
NAPN 85223	Acute Care Adult-Gerontology II	3
85383	Acute Care Adult-Gerontology II Practicum	2
NAPN 85384	Acute Care Adult-Gerontology Advanced Practicum	4

Additional coursework may be required to meet the BON requirements for advanced practice nurses. A student must complete the FNP Certificate program within 3 academic years from the semester they first began course work.

If not completed in a previous graduate degree, the following courses are required:

NURS 50003	Advanced Pathophysiology	3
NURS 50013	Advanced Health Assessment	3
NURS 50053	Advanced Pharmacotherapeutics	3

Family Nurse Practitioner (FNP) Post-Graduate APRN Certificate

The certificate requirement for the FNP consists of 25 hours (4 semesters, 1.5 academic years) including four didactic courses and four precepted practicum courses.

Upon completion, students will be eligible for national certification through the American Nurses Credentialing Center (ANCC) and the American Academy of Nurse Practitioners Certification Program (AANPCP).

Requirements

Required Coursework

NAPN 84202	Promoting Health and Wellness in Primary Care	2
NAPN 84213	Primary Care Adult-Gerontology I	3
84283	FNP Practicum I	3
NAPN 84323	Primary Care Adult-Gerontology II	3
NAPN 84383	FNP Practicum II	3
NAPN 84333	Primary Care of the Young Family	3
NAPN 84393	FNP Practicum III	3
NAPN 84385	Primary Care of the Family Practicum	5

Additional coursework may be required to meet the BON requirements for advanced practice nurses. A student must complete the AGACNP Certificate program within 3 academic years from the semester they first began course work.

If not completed in a previous graduate degree, the following courses are required:

NURS 50003	Advanced Pathophysiology	3
NURS 50013	Advanced Health Assessment	3
NURS 50053	Advanced Pharmacotherapeutics	3

Psychiatric-Mental Health Nurse Practitioner (PMHNP) Post-Graduate APRN Certificate

The Psychiatric-Mental Health Nurse Practitioner post-graduate APRN certificate program prepares graduates to provide comprehensive primary mental health care across the lifespan to those at risk for developing and/or having a diagnosis of psychiatric disorders or mental health problems. Program emphasis is on working with a multidisciplinary team to facilitate and accelerate the patient's return to optimal health and manage mental health in the context of individuals, families, health care settings, and society.

Graduates will be eligible for national certification through the American Nurses Credentialing Center (ANCC).

The Psychiatric-Mental Health Nurse Practitioner area of concentration requires a total of 25 semester hours of coursework for completion. The curriculum comprises 13 hours didactic coursework and 12 hours of clinical practicum. Students may complete the program of study in 4 semesters.

Requirements

Required Coursework

NAPN 86222	Neurobiology of Mental Illness: Lifespan	2
NAPN 86213	Psychopharmacology for the Psychiatric-Mental Health Nurse Practitioner	3
NAPN 86212	Psychotherapy Concepts for the Psychiatric-Mental Health Nurse Practitioner	2
NAPN 86223	Psychiatric Care of Adult and Geriatric Populations	3
NAPN 86283	Advanced Clinical Practicum I Psychiatric-Mental Health: Adult and Geriatric Population	3
NAPN 86333	Psychiatric Care of Children and Adolescents	3
NAPN 86383	Advanced Clinical Practicum II Psychiatric-Mental Health: Children and Adolescents	3
NAPN 86386	PMH Practicum III	6

Additional coursework may be required to meet the BON requirements for advanced practice nurses. A student must complete the PMHNP Certificate program within 3 academic years from the semester they first began course work.

If not completed in previous graduate degree the following courses are required:

NURS 50003	Advanced Pathophysiology	3
NURS 50013	Advanced Health Assessment	3
NURS 50053	Advanced Pharmacotherapeutics	3

Clinical Nurse Specialist (CNS), Adult-Gerontology or Pediatric Post-Graduate APRN Certificate

The certificate requirement for the CNS consists of 20 hours (3 semesters, 1 academic year) including four didactic courses and four precepted practicum courses.

Upon completion, students will be eligible for national certification through the American Association of Critical Care Nurses Certification Corporation (Pediatric).

Requirements

Required Coursework

NCNS 60712	Advanced Care of Pediatric Populations	2
NCNS 60782	Advanced Care of Pediatric Populations Practicum	2
NCNS 60512	The CNS and Professional Practice	2
NCNS 60582	The CNS and Professional Practice Practicum	2
NCNS 60613	CNS Concepts III	3

NCNS 60683	CNS Practicum III	3
NCNS 60723	Diagnostic Reasoning and Advanced Patient Management of the Pediatric patient	3
NCNS 60793	Diagnostic Reasoning and Advanced Patient Management of the Pediatric Patient Practicum	3

Additional coursework may be required to meet the BON requirements for advanced practice nurses. A student must complete the CNS Certificate program within 2 academic years from the semester they first began course work.

If not completed in previous graduate degree the following courses are required:

NURS 50003	Advanced Pathophysiology	3
NURS 50013	Advanced Health Assessment	3
NURS 50053	Advanced Pharmacotherapeutics	3

Nursing Education Post-Graduate Certificate

The certificate requirement for Nursing Education consists of 9 hours including three didactic courses.

Requirements

Required Coursework

NUED 60713	Learning and Instruction in Nursing Education	3
NUED 60723	Curriculum and Program Development in Nursing Education	3
NUED 60733	Evaluation in Nursing Education	3

Additional coursework may be required based on a gap analysis.

School of Nurse Anesthesia

TCU's School of Nurse Anesthesia is accredited by the Council on Accreditation of Nurse Anesthesia Educational Programs (COA), a specialized accrediting body recognized by the Council on Higher Education Accreditation (CHEA) and the U.S. Department of Education (DOE). (Council on Accreditation of Nurse Anesthesia Educational Programs, 222 S. Prospect Ave., Suite 304, Park Ridge, IL 60068-4010, <http://home.coa.us.com>.)

The Standards and Guidelines for accreditation of nurse anesthesia educational programs/schools endorsed by the COA are merely guidelines. They are not a contract between any members of the TCU School of Nurse Anesthesia and should not be construed to give rise to any liability on the part of TCU to any student enrolled in the School of Nurse Anesthesia. The program, the parent institution or the clinical affiliates will not distort or misrepresent the program's accreditation status.

The mission of TCU's School of Nurse Anesthesia is to educate individuals to think and act as ethical leaders and responsible citizens in the global community, and to prepare professional nurses for the nurse anesthesia practice with advanced, specialized knowledge and skills in order to meet the health needs of a diverse population.

Program Goals

1. Support the University's mission, vision and core values.
2. Prepare graduates to become competent certified registered nurse anesthetists, ready to serve society in an advanced role on the healthcare team.
3. Promote core values and behaviors that encourage respect for diversity, acknowledge human worth and dignity, and support professional nurse anesthesia practice.
4. Foster an appreciation for the necessity of learning, thinking critically and continuing to grow personally and professionally.

- Contribute to the nurse anesthesia profession and to society by engaging in expert clinical practice and by demonstrating commitment to ethical leadership and responsible citizenship.

Code of Ethics

A code of ethics guiding the practice of TCU student nurse anesthetists is published in the school handbook and is available upon request.

Nurse Anesthesia Admission Criteria

Students will be selected based on evaluation of the following:

- Bachelor of Science in Nursing or an appropriate bachelor's degree from an accredited school, college or university in the United States.
- Valid licensure as a registered nurse in Texas or another Compact State.
- Official Graduate Record Examination (GRE) scores > 150 (verbal reasoning and quantitative reasoning sections) and > 3.5 on the analytic writing section within the last five years.
- Weighted GPA of > 3.0 math and science courses GPA > 3.0 and last 60 hours of coursework GPA > 3.0.
- A minimum of one year of experience in adult critical care or the equivalent. Two years are highly recommended.
- Certification in BLS, ACLS, PALS, CCRN with individual area scores.
- Three strong professional references, one must be from current supervisor, the other two from professionals of your choice.
- Respond to three short-answer essay questions within the application.
- If English is not the first language, a score of at least 600 on the Test of English as a Foreign Language (TOEFL) and a score of 6 on the institutional version of the Spoken English Test within the past two years.
- International applicants should refer to the TCU Graduate Bulletin.

Candidates who satisfactorily meet these criteria will be invited to an interview. Candidates will be informed of admission status following completion of candidate interviews.

Nurse Anesthesia Admission Deadlines

Application deadline is May 15 for class beginning in January of the following year. Candidates will be notified of admission status by August 31. Important dates related to admission are at www.crna.tcu.edu or call 817.257.7887.

Non-Discrimination

TCU 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.

TCU complies with the Americans with Disabilities Act and with Section 504 of the Rehabilitation Act of 1973 regarding students with disabilities. Disabled students will be individually assessed for their ability to meet the requirements of the curriculum and of the practice. Students with questions about disabilities should contact the director.

Nurse Anesthesia Medical Requirements

Each student must be in good physical and mental health, free of communicable disease when involved in patient care, and have a medical questionnaire and health industry form on file with the University and School of Nurse Anesthesia (SONA) prior to enrollment.

Each student must submit proof of the following to the University prior to enrollment at TCU:

- Meningitis ACWY (Menactra® or Menveo®) administered within the past 5 years. (Students over the age of 22 are exempt from this requirement.)
- Two doses of the Measles, Mumps, and Rubella (MMR) vaccination or proof of immunity to Measles and Mumps. (Students born before 1957 are exempt from this requirement.)

Each student must submit proof of the following to the School of Nurse Anesthesia (SONA):

- MMR series 1 & 2 or positive titer of each measles, mumps, rubella
- Hep B Series 1-3 or positive Hep B titer
- Varicella Series 1 or positive varicella titer
- Tdap immunization within last 10 years
- TB test (within one year); negative PPD or negative chest x-ray

- Seasonal flu immunization

Pending individual clinical facility policies, students may be required to receive the COVID-19 vaccination as part of the credentialing process to train at that facility.

For more information, see www.tdh.state.tx.us/immunize/ or call the Texas School of Health, Immunization Division, 1.800.252. 9152.

Environmental Exposure

Providers in anesthesia are advised that several studies find an increase in congenital abnormalities in children of parents exposed to inhalation agents. Results of these studies are questionable. Students of childbearing age are advised to use caution and limit their exposure to inhalation agents. Dorsch, J.A. & Dorsch, S.E. (2008). *Understanding anesthesia equipment* (5th ed.). Baltimore: Williams & Wilkins.

Health Insurance

Students must carry health insurance throughout the program. Although TCU offers a major medical insurance plan for students to purchase, students are advised to evaluate several plans before selection. Proof of coverage is required. Students are not hospital employees and are not covered by Worker's Compensation. Neither affiliated hospitals nor TCU is liable for student injury during the program.

Nurse Anesthesia Drug and Alcohol Abuse Statement and Background Checks

The following policy is in accordance with the Council on Accreditation of Nurse Anesthesia Educational Programs' *Statement on admissions inquiries regarding drug and alcohol use*.

- Applicants will be asked if they are currently using illegal drugs, abusing prescription drugs or engaging in intemperate alcohol use at the time of application. An affirmative answer is grounds for denial of interview and/or admission.
- After acceptance into the School of Nurse Anesthesia, but prior to enrollment, all admissions to the School of Nurse Anesthesia are contingent on a negative 10-panel drug screen. Positive urine drug screens will result in denial of admission. The School of Nurse Anesthesia pays for the drug testing.**
- All students are required to submit to random or scheduled drug testing at any point in their training based on the decision of the University or clinical training site. Failure to comply with this policy or failure of a drug screen will result in immediate dismissal from the program. The University or clinical training facility pays for the drug testing.
- In the event of a failed drug screen, the University or clinical training site will provide information about rehabilitation. The University or the clinical training site will not incur any expense in this matter.
- In Texas referrals are made to: Texas Peer Assistance Program for Nurses (T-PAPN), 7600 Burnet Road, Suite 440 Austin, Texas 78757-1292, 1.800.288.5528
- Following successful completion of a drug rehabilitation program, students may apply for reinstatement in the program. Readmission is not automatic; cases are individually considered.
- Criminal background checks are conducted prior to admission to the School of Nurse Anesthesia and admission is contingent on a negative background check. Prior convictions may result in denial of admission.
- Criminal background checks are required for insurance coverage and facility credentialing prior to entering the clinical residency. Students with concerns or questions should contact the Director before beginning the program. Prior conviction(s) may result in denial of admission to the clinical residency.**

Nurse Anesthesia General Information

Housing and Meals

Students are eligible for residence halls and meal plans at TCU. Contact Residential Services at 817.257.7865 or www.rlh.tcu.edu/GraduateHousing.aspx for further information. Students are responsible for their own housing and meals at their assigned primary clinical site.

Financial Aid

Both loans and limited scholarships are available for students. Deadlines are early in the semester prior to entry, and students are encouraged to contact the Graduate Financial Aid Adviser, TCU Box 297012, Fort Worth, TX 76129 or www.financialaid.tcu.edu as soon as possible. TCU is recognized by the Veterans Administration for financial assistance to

eligible students. The School of Nurse Anesthesia participates in the Veteran's Administration Yellow Ribbon program.

A student withdrawing from TCU within a limited time frame is eligible for tuition refund. Deadlines are printed in the University calendar every semester.

The student is responsible for all textbooks, supplies and equipment as required by courses.

The RRNA is provided with operating room attire during clinical instruction except at a few rotation sites. The RRNA must provide black scrubs for simulation lab and a white lab coat.

Technology

Students should have sufficient computer literacy to manipulate multiple types of files. Students need a Pentium Class PC with one of the following operating systems: Windows 8, Windows 10, or a Mac OS X based computer with one of the following operating systems; OS X 10.9, (Mavericks), OS X 10.10 (Yosemite), OS X 10.11 (El Capitan), and OS 10.12 (Sierra). Students are required to have Microsoft Office (with PowerPoint, Word, Excel or Mac-compatible version), an Internet connection (broadband), a webcam, and a printer.

Time Commitment

A student's time commitment is approximately 64 hours during a seven-day week averaged over four weeks. This includes class time and clinical time but not study time. One credit hour of classroom time generates to three hours or more of study time. The student should expect a rotating schedule during clinical residency.

Employment

Student employment is strongly discouraged after the first eight months of the program. Students gain more from their academic and clinical experiences without the additional burden of work commitments. If student employment is absolutely necessary, the student must notify the director in writing of the position and hours, documenting that there is no conflict in time between their job and program responsibilities. Students/RRNAs may not be employed to practice anesthesia. Clinical students/RRNAs may not work the shift prior to clinical time.

Nurse Anesthesia Curriculum

Minimum Case Requirements

The School of Nurse Anesthesia exceeds the general requirements as set forth by the Council on Accreditation, Standards and Guidelines for Accreditation of Nurse Anesthesia Educational Programs/Schools. Outside of the constraints imposed by COVID-19, in which clinical facilities ceased training to students or surgical cases were dramatically decreased at any particular clinical site, an RRNA is required to complete a minimum of **900 cases**.

GPA Requirements

A grade is assigned for each course in which a student is enrolled for graduate credit. A passing grade may be earned only if the student is enrolled for the duration of the course.

The TCU School of Nurse Anesthesia requires a minimum overall GPA of 3.0 for graduation.

A student who receives a course grade of less than a "B" in any course will be subject to dismissal from the program.

Policy on Grading Scale

The faculty of the School of Nurse Anesthesia use the following scale in determining course grades.

A = 92-100

B = 83-91

C = 74-82

F = < 74

Graduation Criteria

All didactic work is to be completed within 20 months for the DNAP. The clinical residency is to be completed in 16 months. To qualify for graduation, a student must have a 3.0 overall GPA (on a 4.0 scale) and have completed a minimum of 87 semester hours for the DNAP.

Nursing Practice - Anesthesia, DNAP

Description of Program

The Doctor of Nurse Anesthesia Practice (DNAP) is an innovative, solutions-focused program designed to prepare nurse anesthesia students for solving complex healthcare issues and developing new healthcare opportunities, specifically in the context of nurse anesthesia practice. The program builds on TCU's mission - "Learning to Change the World" - and charges post-baccalaureate registered nurse DNAP students with "Making a Difference in Healthcare".

Mission

The DNAP provides the terminal academic preparation for nurse anesthesia practice with advanced, specialized knowledge and skills to meet the health needs of diverse populations. The purpose of the DNAP program is to prepare nurse anesthetists who are equipped to assume clinical leadership positions in a variety of healthcare, business, government and educational organizations.

Objectives

Upon completion of the DNAP curriculum, graduates should be able to:

Patient Safety

1. Be vigilant in the delivery of patient care.
2. Refrain from engaging in extraneous activities that abandon or minimize vigilance while providing direct patient care (e.g., texting, reading, emailing, etc.).
3. Conduct a comprehensive equipment check.
4. Protect patients from iatrogenic complications.

Perianesthesia

1. Provide individualized care throughout the perianesthesia continuum.
2. Deliver culturally competent perianesthesia care.
3. Provide anesthesia services to all patients across the lifespan.
4. Perform a comprehensive history and physical assessment.
5. Administer general anesthesia to patients with a variety of physical conditions.
6. Administer general anesthesia for a variety of surgical and medically related procedures.
7. Administer and manage a variety of regional anesthetics.
8. Maintain current certification in ACLS and PALS.

Critical Thinking

1. Apply knowledge to practice in decision-making and problem solving.
2. Provide nurse anesthesia services based on evidence-based principles.
3. Perform a preanesthetic assessment before providing anesthesia services.
4. Assume responsibility and accountability for diagnosis.
5. Formulate an anesthesia plan of care before providing anesthesia services.
6. Identify and take appropriate action when confronted with anesthetic equipment-related malfunctions.
7. Interpret and utilize data obtained from noninvasive and invasive monitoring modalities.
8. Calculate, initiate, and manage fluid and blood component therapy.
9. Recognize, evaluate, and manage the physiological responses coincident to the provision of anesthesia services.
10. Recognize and appropriately manage complications that occur during the provision of anesthesia services.
11. Use science-based theories and concepts to analyze new practice approaches.
12. Pass the national certification examination (NCE) administered by NBCRNA.

Communication

- Utilize interpersonal and communication skills that result in the effective exchange of information and collaboration with patients and their families.
- Utilize interpersonal and communication skills that result in an effective interprofessional exchange of information and collaboration with other healthcare professionals.
- Respect the dignity and privacy of patients while maintaining confidentiality in the delivery of interprofessional care.
- Maintain comprehensive, timely, accurate and legible healthcare records.
- Transfer the responsibility for care of the patient to other qualified providers in a manner that assures continuity of care and patient safety.
- Teach others.

Leadership

- Integrate critical and reflective thinking in his or her leadership approach.
- Provide leadership that facilitates intraprofessional and interprofessional collaboration.

Professional Role

The graduate must demonstrate the ability to:

- Adhere to the Code of Ethics for the Certified Registered Nurse Anesthetist.
- Interact on a professional level with integrity.
- Apply ethically sound decision-making processes.
- Function within legal and regulatory requirements.
- Accept responsibility and accountability for his or her practice.
- Provide anesthesia services to patients in a cost-effective manner.
- Demonstrate knowledge of wellness and chemical dependency in the anesthesia profession through completion of content in wellness and chemical dependency.
- Inform the public of the role and practice of the CRNA.
- Evaluate how public policy-making strategies impact the financing and delivery of healthcare.
- Advocate for health policy change to improve patient care.
- Advocate for health policy change to advance the specialty of nurse anesthesia.
- Analyze strategies to improve patient outcomes and quality of care.
- Analyze health outcomes in a variety of populations.
- Analyze health outcomes in a variety of clinical settings.
- Analyze health outcomes in a variety of systems.
- Disseminate research evidence.
- Use information systems/technology to support and improve patient care.
- Use information systems/technology to support and improve healthcare systems.
- Analyze business practices encountered in nurse anesthesia delivery settings.

DNAP Curriculum

Minimum coursework requirements are as follows:

Spring I or Summer I (Online)

NRAN 81123	Biostatistics for the Advanced Health Practitioner (3)	3
NRAN 80113	Research in Nurse Anesthesia (3)	3

Summer I or Spring I (Online)

NRAN 81153	Emerging Sciences, Complexity & Innovation in Health Care (3)	3
NRAN 81233	Decision Science and Informatics (3)	3

Fall I (Face-to-face)

NRAN 81243	Translational Research (3)	3
NRAN 80323	Physical Science in Nurse Anesthesia (3)	3
NRAN 80334	Advanced Pharmacology (4)	4
NRAN 80345	Advanced Anatomy, Physiology, and Pathophysiology I	5

Spring II (Face-to-face)

NRAN 80435	Advanced Anatomy, Physiology and Pathophysiology II (5)	5
NRAN 80413	Advanced Anatomy, Physiology and Pathophysiology III (3)	3
NRAN 80424	Pharmacology of Anesthesia Agents (4)	4
NRAN 81443	Advanced Health Assessment: Anesthesia Focus (3)	3
NRAN 80402	Essentials of Anesthesia and Simulation	2

Summer II (First Session) (Face-to-face)

NRAN 80516	Principles of Anesthesia Practice I (6)	6
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Summer II (Second Session) (Face-to-face)

NRAN 80526	Principles of Anesthesia Practice II	6
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Fall II

NRAN 80672	Advanced Pathophysiology and Clinical Management I	2
NRAN 88080	Advanced Project (3)	3
NRAN 80683	Clinical Residency I	3

Spring III

NRAN 80672	Advanced Pathophysiology and Clinical Management I (2)	2
NRAN 88080	Advanced Project (3)	3
NRAN 80783	Clinical Residency II (3)	3

Summer III

NRAN 81353	Health Care Policy and Politics	3
NRAN 80882	Clinical Residency III	2
NRAN 88080	Advanced Project (3)	3

Fall III

NRAN 80972	Clinical Concepts	2
NRAN 80983	Clinical Residency IV	3
NRAN 88080	Advanced Project (3)	3

NRAN 81153, NRAN 81123, NRAN 80113, NRAN 81233, NRAN 81243 are online courses

Due to the nature of the curriculum, courses outside of TCU are not transferrable, nor to be used in lieu of courses in the School of Nurse Anesthesia Curriculum.

Clinical Residency (minimum 16 months)

Upon completion of the initial 20 months of the program, students must immediately enter the clinical residency, which begins in late August and lasts approximately 16 months. During this time the student's learning is built on the material covered previously and comes primarily in a clinical residency although the student also returns to the classroom virtually on a weekly basis for extensive clinically related study. The clinical residency ends in December. The graduate receives a Doctor of Nurse Anesthesia Practice degree and is eligible to write the National Certifying Examination (NCE) for Nurse Anesthetists administered by the National Board of Certification and Recertification of Nurse Anesthetists

(NBCRNA). Graduates who successfully complete this written exam are certified registered nurse anesthetists (CRNAs).

The clinical residency consists of administering general and regional anesthesia alongside a qualified clinical instructor (anesthesiologist or CRNA). Weekly classroom sessions are clinical conferences; journal clubs; and seminars dealing with current topics including, but not limited to, respiratory, cardiovascular, thoracic, neurosurgical, regional, obstetrical, pediatric and special areas of anesthesia. Various projects and competency examinations are required/administered throughout this phase.

Courses during clinical residency are offered in concurrent sequences. Each set, e.g., NRAN 80672 and 80683, must be taken together and successfully completed prior to beginning the next set.

DNAP to MHS degree Option

Students enrolled in the School of Nurse Anesthesia DNAP, may choose to transfer to the MHS degree program as long as degree requirements as defined below, are met. No direct admission is allowed to the MHS.

Degree Requirements

Completion of the following coursework:

Spring Semester - 6 Hours

NRAN 80113	Research in Nurse Anesthesia (3)	3
NRAN 81123	Biostatistics for the Advanced Health Practitioner (3)	3

Summer Semester - 6 hours

NRAN 81113	Complexity and Innovation in Health Care	3
NRAN 81233	Decision Science and Informatics (3)	3

Fall Semester - 16 hours

NRAN 80323	Physical Science in Nurse Anesthesia (3)	3
NRAN 80334	Advanced Pharmacology (4)	4
NRAN 80346	Advanced Anatomy, Physiology, and Pathophysiology I (6)	6
NRAN 81243	Translational Research (3)	3

Spring Semester - 12 Hours

NRAN 80413	Advanced Anatomy, Physiology and Pathophysiology III (3)	3
NRAN 80435	Advanced Anatomy, Physiology and Pathophysiology II (5)	5
NRAN 80424	Pharmacology of Anesthesia Agents (4)	4

AA-C (Certified Anesthesiologist Assistant) to DNAP Program Track, School of Nurse Anesthesia

Mission: To prepare Certified Anesthesiologist Assistants (AA-C's) to practice anesthesia as certified registered nurse anesthetists (CRNAs) and to sit for the National Certification Examination (NCE) administered by the National Board of Certification and Recertification for Nurse Anesthetists (NBCRNA).

Alternate Admission Requirements for AA-C's

Full admission is accomplished in two steps. The first is Conditional Admission; the second is Full Admission.

Conditional Admission:

AA-C candidates must meet the following requirements:

- Bachelor of Science (BSN) or Associate Degree in Nursing (ADN)
- Unencumbered licensure as a Registered Nurse (RN)
- Master's degree from an accredited school or college in the United States

- Current certification as an Anesthesiology Assistant (AA-C)
- Submission of clinical transcript from AA program documenting a minimum of 300 cases and 1,000 clinical hours
- A minimum of 5 years experience as an AA-C

Additional Requirements (*either 1 or 2 below*):

1. Evidence of experience as an AA-C in a variety of complex cases caring for critically ill patients as documented by:

- Curriculum Vita
 - Personal essay describing how the AA-C has developed critical decision-making and psychomotor skills, competency in patient assessment, and the ability to use and interpret advanced monitoring techniques consistent with the COA's definition of critical care experience. *
 - Validation of 5 years of experience in a variety of complex cases from a departmental Chief CRNA or an anesthesiologist who has medically directed the AA-C.
 - Submission of a case log from each practice site the AA-C has been employed since graduation.
 - The case log must include: Type of case and method and anesthesia for each case performed.
2. **Or** a minimum of one-year current Critical Care experience as an RN
- AA-C candidates will be conditionally admitted to begin the curriculum with the 12 online hours offered each spring and summer semesters.

Critical care experience - Critical care experience must be obtained in a critical care area within the United States, its territories or a US military hospital outside of the United States. During this experience the registered professional nurse has developed critical decision making and psychomotor skills, competency in patient assessment, and the ability to use and interpret advanced monitoring techniques. A critical care area is defined as one where, on a routine basis, the registered professional nurse manages one or more of the following: invasive hemodynamic monitors (e.g., pulmonary artery, central venous pressure, and arterial catheters), cardiac arrest devices, mechanical ventilation, and vasoactive infusions. Examples of critical care units may include but are not limited to: surgical intensive care, cardiothoracic intensive care, coronary intensive care, medical intensive care, pediatric intensive care, and neonatal intensive care. Those who have experiences in other areas may be considered provided they can demonstrate competence with managing unstable patients, invasive monitoring, ventilators, and critical care pharmacology.

Full Admission:

Successful completion of the initial 12 online hours.

Spring I or Summer I (Online)

NRAN 81153	Emerging Sciences, Complexity & Innovation in Health Care (3)	3
NRAN 81123	Biostatistics for the Advanced Health Practitioner (3)	3

Summer I or Spring I (Online)

NRAN 80113	Research in Nurse Anesthesia (3)	3
NRAN 81233	Decision Science and Informatics (3)	3

Fall I

NRAN 81243	Translational Research (3)	3
NRAN 80323	Physical Science in Nurse Anesthesia (3)	3
NRAN 80334	Advanced Pharmacology (4)	4
NRAN 80346	Advanced Anatomy, Physiology, and Pathophysiology I (6)	6

Spring II

NRAN 80435	Advanced Anatomy, Physiology and Pathophysiology II (5)	5
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NRAN 80413	Advanced Anatomy, Physiology and Pathophysiology III (3)	3
NRAN 80424	Pharmacology of Anesthesia Agents (4)	4
NRAN 81443	Advanced Health Assessment: Anesthesia Focus (3)	3

Summer Semester

NRAN 80516	Principles of Anesthesia Practice I (6)	6
NRAN 80526	Principles of Anesthesia Practice II (6)	6
NRAN 81353	Health Care Policy and Politics (3)	3

Fall II

NRAN 80672	Advanced Pathophysiology and Clinical Management I (2)	2
NRAN 88080	Advanced Project (3)	3
NRAN 80683	Clinical Residency I (3)	3

Spring III

NRAN 80772	Advanced Pathophysiology and Clinical Management II (2)	2
NRAN 88080	Advanced Project (3)	3
NRAN 80783	Clinical Residency II (3)	3

Requirements for the Summer III and Fall III terms

The requirement for the following two semesters is dependent on the individual's progression in the Clinical Residency. A minimum of 900 cases are required (300 may be documented by transcript from their Anesthesiology Assistant Master Degree program).

Summer III

NRAN 80882	Clinical Residency III (2)	2
NRAN 88080	Advanced Project (3)	3

Fall III

NRAN 80972	Clinical Concepts (2)	2
NRAN 80983	Clinical Residency IV (3)	3
NRAN 88080	Advanced Project (3)	3

Online courses: NRAN 81153, NRAN 81123, NRAN 80113, NRAN 81233, NRAN 81243, NRAN 81353, NRAN 80672, NRAN 80772

Traditional face-to-face courses may be taken via Zoom technology, essentially making the program, with exception of clinical experiences, all online.

Each Advanced Clinical Project course is for three (3) credit hours. A minimum of two must be taken: NRAN 88080

Courses may be taken face-to-face in our TCU classroom OR synchronously via Zoom technology include: NRAN 80323, NRAN 80334, NRAN 80346, NRAN 80435, NRAN 80413, NRAN 80424, NRAN 81443, NRAN 80516, NRAN 80526.

The AA-C may receive credit by examination for a maximum of 40 credit hours. Eligibility is determined by the AA-C's SEE results. A score of 450 or higher is required, as is approval by course faculty. Courses that may be tested out include: NRAN 80323, NRAN 80334, NRAN 80346, NRAN 80435, NRAN 80413, NRAN, 80424, NRAN 81443, NRAN 80516, NRAN 80526.

Not required if case requirement is met (900 cases): NRAN 80972.

Advanced Pain Management Fellowship and Certificate Program

TCU's School of Nurse Anesthesia Advanced Pain Management Program is accredited by the Council on Accreditation of Nurse Anesthesia Educational Programs (COA).

Mission

The mission of the program is to educate Certified Registered Nurse Anesthetists (CRNAs) to be competent providers of care to patients who suffer from chronic pain. The purpose of the Advanced Pain Management Program is to educate and prepare advanced pain management practitioners to deliver holistic pain management care, including comprehensive pain management interventions, a focus on reductions in use of opioids and patient education. The objective of the program is to prepare CRNAs to enter this subspecialty of nurse anesthesia practice and to successfully pass the National Board of Certification and Recertification of Nurse Anesthetists (NBCRNA) subspecialty certification examination for Nonsurgical Pain Management (NSPM). The NSPM credential program measures the knowledge, skills, and abilities of NBCRNA-certified registered nurse anesthetists for practice in the NSPM field (<http://www.nbcna.com/NSPM/Pages/NSPM.aspx>).

Application Deadlines

February 1st for class beginning the next August. Candidates will be notified of admission status by March 1st.

Objectives

Upon completion of the Program, Fellows should be able to:

- Demonstrates knowledge and skills required in the area of specialty practice or concentration. Academic success is assessed throughout the Program and is measured as course grades for each student in their permanent academic transcript. Clinical success is monitored through direct clinical mentorship and evaluation. Both formative and summative evaluation is employed to validate the demonstration of knowledge and skills. Each semester, the faculty mentor is solicited to identify:
 - If the Fellow's clinical performance is acceptable and progression to the next semester is recommended
 - If weaknesses are identified and noted, but progression is acceptable to the next semester with plans for corrective action
 - If the Fellow's clinical performance is unacceptable then progression to the next semester is not recommended

Pain Management Curriculum

A grade of B in each course is the minimum acceptable grade for progression. Failure to achieve a minimum of a B in any course will result in dismissal from the program.

Minimum coursework requirements are as follows:**Semester I (fall) 7 credit hours**

NRAN 82223	Pain Evaluation and Treatment (3)	3
NRAN 82133	Imaging and Radiation Safety (3)	3
NRAN 82331	Anatomy and Physiology for Pain Management (1)	1

Semester II (spring) 8 credit hours

NRAN 82111	Comprehensive Pain Management Clinical Practicum-I (1)	1
NRAN 82233	Pharmacology for Pain Management (3)	3
NRAN 82323	Interventional Pain Strategies for Advanced Pain Practice (3)	3
NRAN 82221	Psychology and Spirituality in Pain Management (1)	1

Semester III (summer) 4 credit hours

NRAN 82211	Comprehensive Pain Management Clinical Practicum-II (1)	1
NRAN 82143	Special Topics in Advanced Pain Management (3)	3

The fellow is responsible for the purchase of all books, supplies and equipment as required by courses. Fellows are responsible for all costs of clinical education, including but not limited to: state licensure, malpractice insurance, and all travel costs.

Technology

Students should have sufficient computer literacy to manipulate multiple types of files. Students need a Pentium Class PC with one of the following operating systems: Windows 8, Windows 10, or a Mac OS X based computer with one of the following operating systems: OS X 10.9 (Mavericks), OS X 10.10 (Yosemite), OS X 10.11 (El Capitan), and OS 10.12 (Sierra). Students are required to have Microsoft Office (with PowerPoint, Word and Excel or Mac - compatible version), an internet connection (broadband), a webcam, and a printer.

Communication Sciences and Disorders

The Davies School of Communication Sciences and Disorders offers the Master of Science in Deaf and Hard of Hearing Studies and Speech-Language Pathology. The master's degree program in Speech-Language Pathology is accredited by ASHA's Council on Academic Accreditation.

Within 30 days prior to enrolling in the graduate program, each student is required to present satisfactory evidence of acceptable results from a criminal background check arranged by the Davies School of Communication Sciences and Disorders.

Deaf and Hard of Hearing Studies, MS Accelerated Master's Option

The Accelerated Option is for high achieving undergraduate students enrolled in the Davies School Deaf and Hard of Hearing Studies program. The option is available only to TCU undergraduates obtaining a baccalaureate degree in Deaf and hard of Hearing Studies. The Accelerated Option allows outstanding students to complete a bachelor's degree with the Master of Science (MS) in five years. Students are eligible to apply for admission to the graduate program during the semester they complete 90 hours of undergraduate coursework. To be considered for admission to the Accelerated Option, students must submit a graduate program application packet. Only candidates demonstrating superior undergraduate academic performance and having strong recommendations are considered for admission.

Students intending to pursue an Accelerated Option should make their plans known as early as possible to their faculty advisor in the Davies School to ensure proper advising. If admitted to the Accelerated Program, students complete up to 12 semester hours of the MS program during the fourth year of undergraduate study. Candidates must work with their undergraduate advisors to determine how the courses they take will apply to the undergraduate degree. During their senior year, they complete the following classes.

COSD 55373	Language Development of Deaf & Hard of Hearing	3
COSD 30383	American Sign Language I	3
EDEC 30213	Creative Thinking and Problem Solving: Writing	3
EDEC 55123	Learner-Centered Teaching: Families	3
EDUC 30123	Educational Psychology	3

COSD 40383	American Sign Language II	3
EDSP 55663	Motivating and Managing Students in the Classroom	3
EDEC 30001	Professional Practice Seminar	1
EDUC 30013	Professional Roles and Responsibilities	3
COSD 55423	Diagnostics	3

Course distributions leading to the MS in Deaf and Hard of Hearing Studies (DHH) will allow for the completion of compulsory academic and teacher education training required by the Texas Education Agency (TEA) for professional teacher certification. A minimum of 14-weeks (min. 70 days) of clinical teaching is required.

Year 1

Summer

COSD 60213	Teaching Spoken Language to Persons with Hearing Loss	3
COSD 60223	Clinical Lab in Teaching DHH Students I	3

Fall

COSD 70323	Research in Communication Sciences and Disorders	3
COSD 60243	Teaching Elementary School Subjects to DHH Children	3

Spring

Traditional Master's Option

To pursue the MS in Deaf and Hard of Hearing Studies, students must possess a bachelor's degree. Deaf studies prerequisite courses and education prerequisite courses are also required prior to enrollment. Consult with the Deaf and Hard of Hearing Studies Program Coordinator for further details.

A total of 36 hours of graduate coursework must be completed.

COSD 55373	Language Development of Deaf & Hard of Hearing	3
EDEC 55123	Learner-Centered Teaching: Families	3
EDSP 55663	Motivating and Managing Students in the Classroom	3
COSD 55423	Diagnostics	3
COSD 60213	Teaching Spoken Language to Persons with Hearing Loss	3
COSD 60223	Clinical Lab in Teaching DHH Students I	3
COSD 70323	Research in Communication Sciences and Disorders	3
COSD 60243	Teaching Elementary School Subjects to DHH Children	3

Course distributions leading to the MS in Deaf and Hard of Hearing Studies (DHH) will allow for the completion of compulsory academic and teacher education training required by the Texas Education Agency (TEA) for professional teacher certification. A minimum of 14-weeks (min. 70 days) of clinical teaching is required.

Speech-Language Pathology, MS

To pursue the MS in Speech-Language Pathology, students must possess a bachelor's degree, including at least 24 hours in approved speech-language pathology courses (i.e. Speech & Hearing Science, Clinical Methods, Phonetics, Anatomy & Physiology, Neurological Substrates of Communication and Swallowing, Child Language Development, Audiology, and Aural Rehabilitation).

Course distributions leading to the MS in Speech-Language Pathology will allow for the completion of compulsory academic and clinical training required by the American Speech-Language-Hearing

Association (ASHA) for professional certification in the field of speech-language pathology (Certificate of Clinical Competence in SLP, CCC-SLP). A minimum of 375 clock hours of supervised clinical practice, 325 hours of which must be on the graduate level, is required.

The Davies School of Communication Sciences & Disorders offers two tracks within the graduate program leading to the Master's of Science: 1) a SLP track and 2) an EBSLP track. Both tracks require a core of 43 credit hours (see below). The EBSLP track requires an additional 3 credit hours, consisting of COSD 60233 in spring of the second year. The clinical training experiences of students in the EBSLP track also include children and adults whose primary language is Spanish.

In both the SLP and EBSLP tracks, students have the option to complete a thesis. The requirements for the thesis and non-thesis options are as follows:

Thesis Option

This option requires a minimum of 43 hours for students electing the SLP track, and 46 hours for students electing the EBSLP track. Students are required to complete COSD 70323 and six hours of COSD 70980.

Thesis hours will be taken in lieu of other coursework. A final comprehensive examination based on the thesis is required.

Non-Thesis Option

This program requires a minimum of 43 hours for students electing the SLP track of study, and 46 hours for students electing the EBSLP track. Students are required to complete COSD 70323. A final comprehensive examination consisting of written and oral portions is required, and is based on the academic and clinical experiences of the students during their program of study.

Academic and Clinical Performance

Student academic and clinical performance is assessed on a regular basis within the context of knowledge and skill acquisition needed to matriculate through the sequence of educational experiences and requirements for ASHA CCC-SLP. If academic performance (based on course grades) and/or clinical performance (based on clinical educator evaluations and clinical practicum grade) are evaluated to be unsatisfactory, students may be placed on academic probation. If a student is placed on probation, a remediation plan will be established by the graduate program director, clinical coordinator, and the student. Performance in the subsequent semester may result in a number of outcomes that can include (a) removal from probation and continuation with the original plan of study under which the student entered the program (b) continued academic probation with continuation of the original plan of study under which the student entered the program (c) continued academic probation with a delay in specific course enrollment and/or enrolling in clinical externships, and thus the addition of a minimum of one additional semester where the student will re-take a course and/or complete a clinical practicum, (d) any of the above with loss of the Graduate Assistantship, or (e) recommendation for dismissal from the program.

Year 1

Fall

COSD 50413	Advanced Speech Sound Disorders	3
COSD 60343	Advanced Language Disorders in Children	3
COSD 70323	Research in Communication Sciences and Disorders	3
COSD 60300	Practicum in Speech-Language Pathology	1

Spring

COSD 50363	Seminar on Stuttering	3
COSD 60413	Adult Neurolinguistic Disorders	3
COSD 60423	Dysphagia	3
COSD 60300	Practicum in Speech-Language Pathology	1

Summer (Option A Residential)

COSD 60390	Seminar on Communication Disorders	2-5
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COSD 60300	Practicum in Speech-Language Pathology	1
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Summer (Option B Study Abroad)

COSD 60390	Seminar on Communication Disorders	2
COSD 50840	COSD Study Abroad - Chile & Argentina	3
COSD 50850	COSD Study Abroad - China:Global Perspectives on Comm Health	3
COSD 50860	COSD Study Abroad - Scotland, England, and Ireland	3
COSD 50870	COSD Study Abroad - Australia	3
COSD 60300	Practicum in Speech-Language Pathology	1

Year 2

Fall

COSD 50382	Voice and Resonance	2
COSD 60433	Motor Speech Disorders	3
COSD 60443	Multicultural Issues in Communication Disorders	3
COSD 60300	Practicum in Speech-Language Pathology	1
COSD 60322	Advanced Counseling in Communication Sciences and Disorders	2

Spring

COSD 60463	Early Intervention	3
COSD 60390	Seminar on Communication Disorders	1
COSD 60390	Seminar on Communication Disorders	1
COSD 60300	Practicum in Speech-Language Pathology	1

Athletic Training

Athletic trainers (ATs) are highly qualified, multi-skilled health care professionals who collaborate with physicians to provide preventative services, emergency care, clinical diagnosis, therapeutic intervention and rehabilitation of injuries and medical conditions. The Master of Science in Athletic Training (MSAT) will prepare graduates to be confident healthcare providers and life-long learners by providing quality didactic, clinical, and interprofessional experiences. Students will develop evidence-based knowledge and skills, while demonstrating professionalism, ethical conduct, and critical thinking skills. Students will complete both integrative and immersive experiences in intercollegiate sports, high schools, rehabilitation clinics, and practice advancement settings (performing arts, physician practice, industrial, public safety). An immersive clinical experience is a practice-intensive experience that allows the student to experience the totality of care provided by athletic trainers.

Texas Christian University is accredited by the Commission on Accreditation of Athletic Training Education (CAATE).

Admission Requirements

In order to gain admission to the Master of Science in Athletic Training program, applicants must meet these specific program requirements:

1. Completion of a bachelor's degree at a regionally accredited college or university. Admission is made on the assumption that applicants will have the bachelor's degree by the time of matriculation, and if not, the MSAT program admission is void. The GRE is not required.
 - TCU students currently following the MSAT 3+2 option that wish to apply to the "professional" phase of the MSAT program must complete at least 110 hours of undergraduate courses and the requirements for the Movement Science degree in Kinesiology before beginning graduate level courses.
2. GPA of 3.0 or higher with a grade of C or better in all designated prerequisite courses (see below);
3. Completed program application through the Athletic Training Centralized Application Service (ATCAS);

- **References:** Applicants must submit two reference forms with letters from people who can address the applicant's academic abilities, interpersonal skills, and potential for graduate education and professional athletic training practice.
 - **Transcripts:** Copy of all academic transcripts. Students who have taken prerequisites at another institution may be asked to submit syllabi to determine if course met the prerequisite.
 - **Resume:** Applicants must submit a current resume or vitae with their application.
 - **Essay:** An essay, up to 500 words, demonstrating written communication skills. This essay should describe your career goals as an Athletic Trainer, how the program at TCU can help you achieve those goals, and what attracted you to the TCU Athletic Training Program.
4. **Observation Experience:** Verification of 100 hours of observation in an athletic training setting under the direct supervision of a BOC ATC (high school, college, clinic, etc.);
- Student should upload letter(s) to ATCAS from supervising athletic trainer(s) verifying observation hours in that setting
5. **Interview:** Applicants must complete an interview as part of the admission process. All application materials must be on file prior to scheduling an interview.
6. Students may begin applying to the TCU MSAT on July 1st through ATCAS.

Prerequisite Courses

In order to be considered for admission to the graduate program, students who have already completed a baccalaureate degree will be required to have completed the following courses at TCU or their equivalents from another institution prior to matriculation. These courses are included in the TCU MSAT 3+2 option. All applicants must have earned a 'C' or better in these courses.

Biology I (BIOL 10003)*

Chemistry I (CHEM 10113)*

Physics I (PHYS 10154)*

Anatomy and Physiology I (BIOL 20204)*

Anatomy and Physiology II (BIOL 20214)*

Exercise Physiology (KINE 30634)

Biomechanics (KINE 30623)

Health and Wellness Concepts (HLTH 20313)

Foundations of Sport Injuries (KINE 20313)

Psychology (PSYC 10213)

Nutrition (NTDT 20403)

Medical Terminology (NTDT 30331)

Statistics (MATH 10043)

*Science prerequisites must include a lab component

The MSAT Program accepts applications through rolling admissions and will continue until cohort is filled. Students may begin applying to the TCU MSAT on July 1st through ATCAS. Due to a summer start date, no applications will be accepted after April 15th of the application year. Applicants will be evaluated based on the following: GPA of 3.0 or higher and a grade of C or better in all designated prerequisite coursework, strength of references and letters of recommendation, essays, resume/curriculum vita, verification of observation hours, and strength of interview.

Please visit <http://harriscollege.tcu.edu/athletic-training/> for program and application information or visit the Athletic Training Office in TCU's Department of Kinesiology (Rickel 172).

Stephanie Jervas, PhD, LAT, ATC, FNAP

Athletic Training Program Director

Texas Christian University

Department of Kinesiology

TCU Box 297730

Fort Worth, TX 76129

Phone: 817.257.5733

Email: s.jervas@tcu.edu

Retention Policy

To remain in good academic standing in the MSAT Program, students must meet all of the following criteria:

1. Maintain a 3.0 or better cumulative GPA;
2. Be in good standing academically with the University and the TCU Graduate School; and
3. Comply with all University and MSAT policies and procedures.

A student who achieves a cumulative GPA of less than 3.0 in any semester or term will be placed on 'Academic Warning'. A student can be removed from that status by achieving a 3.0 cumulative average by the end of the next semester of enrollment. If the student should fail to do so, the student may be dismissed from the program.

All grades are included in the computation of the GPA, and only grades of A, B, and C are acceptable for graduate credit. As per the TCU Graduate School Policies and Procedures, no more than two grades of "C+" or lower may be utilized in satisfying degree requirements. Students who earn more than two grades of "C+" or lower and/or earn an "F" in a course will be dismissed from the program. In the final semester, students who have less than a 3.0 cumulative GPA and/or earned more than two grades of "C+" or lower will not graduate. Students who have been formally dismissed or have not met the retention policy for graduation can reapply to the program and must repeat all coursework required for the Master of Science in Athletic Training degree.

An "I" (incomplete) grade is recorded when the student and instructor have determined that the work required for a course cannot be completed within the term of enrollment due to circumstances beyond the student's control. Under no circumstances will a grade of "I" be given to avoid earning an "F" for the course.

The "I" grade must be removed within the first 60 days of the regular semester immediately following or it is changed to an "F." Any extension of this time must have written approval of the instructor and the Associate Dean for Harris College of Nursing and Health Sciences.

Until the "I" grade is removed, progression in the program will be at the discretion of the Athletic Training Program Director.

Athletic Training, MS MSAT Curriculum

Summer 1

KINE 55013	Clinical Skills and Emergency Management	3
KINE 55023	Therapeutic Interventions	3
KINE 55033	Introduction to Musculoskeletal Evaluation	3
KINE 55001	Athletic Training Clinical I	1

Fall 1

KINE 50104	The Lower Extremity	4
KINE 50113	Organization and Administration in Athletic Training	3
KINE 50214	The Upper Extremity	4
KINE 50201	Athletic Training Clinical II	1

Spring 1

KINE 50124	Head, Neck and Spine	4
KINE 50224	General Medical Conditions and Applied Pharmacology	4
KINE 50301	Athletic Training Clinical III	1
KINE 55042	Research in Athletic Training	2

Summer 2

KINE 60303	Athletic Training Field Experience	3
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Fall 2

KINE 60313	Current Trends and Issues in Athletic Training	3
KINE 60323	Behavioral Health Concerns for the Athletic Trainer	3
KINE 60403	Athletic Training Clinical IV	3

Spring 2

KINE 60413	Seminar in Athletic Training	3
KINE 60453	Advanced Clinical Skills and Techniques in Athletic Training	3
KINE 60533	Athletic Training Clinical V	3

Kinesiology, MS

The mission of the graduate program in kinesiology is to provide students the opportunity to gain an in-depth understanding of the theoretical basis of human movement. Students are able to specialize in one of the sub-disciplines within kinesiology; however, the departmental core curriculum also gives students a cross-disciplinary exposure to the study of human movement. Along with classroom studies, involvement in original laboratory research constitutes a major means by which students gain a broad understanding of their specialty area. At the completion of the master's degree students should be able to:

- Provide strategies for solving both practical problems and research questions within the disciplines; and
- Integrate movement-based principles into a variety of activities taking place in laboratory, educational, clinical and athletic settings.

Prerequisites include a Bachelor of Science or Bachelor of Arts degree with a 24-hour concentration in kinesiology or its equivalent from an accredited college or university.

Academic Warning and GPA Requirements

To remain in good academic standing in the M.S. in Kinesiology Program, students must meet all of the following criteria: maintain a 3.0 or better cumulative GPA; be in good standing academically with the University and the TCU Graduate School; and comply with all University and M.S. in Kinesiology policies and procedures. Kinesiology graduate students must maintain a GPA of at least 3.0 and earn no more than two courses of "C" or "C+". A graduate student who achieves a cumulative GPA of less than 3.0 in any semester in their program will be placed on 'Academic Warning'. A student can be removed from that status by achieving a 3.0 cumulative average by the end of the next semester of enrollment. Failure to resolve academic warning by the end of the next semester will result in dismissal from the program. Only grades of C or higher are acceptable for graduate credit. A grade of F will result in immediate dismissal from the program. In the final semester, students who have less than a 3.0 cumulative GPA and/or earned more than two grades of "C" or "C+" will not graduate.

Kinesiology, MS**Kinesiology Academic Areas of Emphasis**

Student may choose an emphasis in exercise physiology, exercise psychology, motor control, nutrition, physical activity and chronic disease, and sport psychology.

Kinesiology, MS Curriculum**Professional Development (6 hours)**

KINE 60103	Research Methods in Kinesiology	3
KINE 70970	Special Problems in Kinesiology	1.00-20.00

Academic Core (9 hours)

KINE 60213	Advanced Biomechanics	3
KINE 60423	Advanced Motor Behavior	3
KINE 60613	Physiology of Exercise	3

Academic Specialization (9-12 hours)

Academic courses that emphasize specific concentrations such as exercise physiology, exercise psychology, motor control, nutrition, physical activity and chronic disease, or sport psychology.

Resource Area (3-6 hours)

Courses in related areas determined after a review of student preparation and goals. Must have approval of advisor, and department chair.

Thesis (6 hours)**Master of Social Work**

The Master of Social Work (MSW) Program prepares advanced generalist social workers with a common base of social work knowledge, values and skills that equip the graduate for leadership positions that promote human rights and social and economic justice. The advanced generalist focus enables graduates to apply their abilities within service systems of various sizes and types. Practice courses stress application of advanced skills in a variety of systems using assessment, planning, intervention and evaluation relevant to diverse individuals, families, groups and communities. Field education provides opportunities for students to integrate theory with practice and experientially apply knowledge, values and skills in appropriate settings.

TCU's 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.

Mission

The mission of the TCU Master of Social Work Program is "to prepare ethical and competent advanced social work practitioners who promote human rights and economic and social justice with diverse clients in the global community." This mission reflects and flows from the University mission.

Program of Study

The MSW curriculum is based on educational standards developed by the Council on Social Work Education (CSWE). The MSW curriculum includes foundation content (the first 30 hours of the program) and advanced practice content (the final 30 hours of the program).

The MSW requires 60 credit hours (42 hours coursework, 18 hours internships). MSW students take 15 hours each semester and complete their degree in two years. Both BSW graduates and those with undergraduate degrees in other disciplines are eligible for seeking admission to the MSW. Students who already have the BSW are known as Advanced Standing students and can complete the MSW with one year of study (30 hours). Students with baccalaureate degrees in other disciplines are known as Traditional students and will require two years of study (60 hours) to complete the MSW.

The Women & Gender Studies (WGST) Certificate and Critical Race and Ethnic Studies (CRES) Certificate options are available for Traditional MSW students. Students are required to take three CRES or four WGST courses to qualify for these certificates (see additional details below).

Students may also apply for the dual degree program with Brite Divinity School. In this option, students complete both their MSW and a degree from Brite Divinity School (see additional details below).

Advanced Standing

Advanced Standing is awarded only to graduates holding degrees from baccalaureate social work programs accredited by CSWE, those recognized through its International Social Work Degree Recognition and Evaluation Service, or those covered under a memorandum of understanding with international social work accreditors. Students meeting the requirements for Advanced Standing will receive credit for the foundation content of the MSW curriculum and be allowed to enter the concentration content of the MSW Program.

Gatekeeping

The social work profession has the legal and ethical responsibility to protect both society and the profession by assessing students' readiness to work with clients. The faculty team discusses students' professional development and readiness to interact with clients. This gatekeeping responsibility is outlined and enforced through the Code of Ethics of the National Association of Social Workers and addressed in the TCU MSW Program Handbook.

MSW Admission Requirements

In addition to meeting TCU's graduate admission requirements, applicants must meet the admission requirements of either the Traditional or Advanced Standing Master of Social Work Program. Applicants may be reviewed for entry into either program. Admission decisions are based on a range of information, including the qualifications described below. Admission to the program presumes the ability and willingness to follow the sequential curriculum outlined in the Program Requirements.

Traditional MSW Program (60 credits, 2-year)

Required qualifications for admission:

1. **Prior Degree.** Students accepted for the MSW Program must have completed a baccalaureate (BA, BS) degree reflecting a liberal arts foundation from an accredited college or university.
2. **GPA.** Applicants should have strong academic preparation as demonstrated by an undergraduate GPA of at least 3.0 (on a 4.0 scale) in the last 60 hours of coursework.
3. **Course Prerequisites.** Applicants must have one college-level course in each of the following: statistics, sociology and psychology before registering for the first semester in the MSW Program.
4. **References.** Applicants must submit three professional and academic reference forms with letters from persons who can address academic abilities and interpersonal skills, potential for graduate education and potential for professional social work practice. At least one reference must be from an academic adviser or instructor. It is preferred that one of these references be from a field or internship supervisor.
5. **Professional Statement.** Applicants must submit a well-written professional statement 750-1,500 words that addresses:
 - What motivated you to pursue an MSW?
 - How do your values connect with the values of the social work profession?
 - What personal strengths and weaknesses will impact you as a social worker?
 - Describe experiences and leadership opportunities you have had that will help you succeed in this graduate program.
 - Discuss any significant volunteer or work experiences related to social work.
 - What are your professional goals in social work?
 - Please share two TCU Department of Social Work faculty members you would be interested in engaging with during your time in the TCU MSW program.
6. **Resume.** Applicants will submit a current resume or vita with their application.

Petition for Academic Exception:

Must be completed by applicants whose undergraduate GPA is below 3.0.

An applicant who believes that his or her individual circumstances warrant consideration for a waiver of the minimum university admissions requirement must petition the MSW admissions committee.

The request should be a one page statement entitled "Petition for Academic Exception". The petition should include a statement explaining that the minimum admissions requirement of a 3.0 GPA should be waived, as it does not adequately represent the applicant's capabilities. The applicant should briefly discuss how he or she has demonstrated a capacity for successful achievement in a rigorous graduate program. For example, an applicant might provide evidence of:

- Superior grades during the final 60 hours of undergraduate coursework indicating a trend toward improved performance.
- Competence through achievement in another graduate program.
- Outstanding work experience in human services (volunteer or paid).

The applicant should also discuss how he or she plans to address obstacles to successfully complete the program (for example, if a low grade point average was viewed as the result of a "needing to work full time during my undergraduate studies" the applicant should discuss why that is not likely to be a factor during his or her graduate study).

Petitions must be uploaded along with all other application documents.

Advanced Standing MSW Program (30 credits, 1-year)

Required qualifications for admission:

1. **Prior Degree:** Applicants must hold or be near completion of a bachelor's degree in Social Work (BSW, BSSW) or other bachelor's degree (BS or BA) with a major in social work from a CSWE accredited program.
 - a. Note: International applicants with a bachelor's in social work must have their degree recognized by CSWE's International Social Work Degree Recognition and Evaluation Service to be considered for the Advanced Standing program.
2. **Transcripts:** Applicants should submit an unofficial transcript from every university or college attended.
 - a. Note: International applicants must submit an English translated copy of their transcript. Note: Current and former TCU students will not need to complete this step. Copies from the Registrar's Office will be obtained for all TCU graduates.
3. **GPA:** Applicants should have strong academic preparation as demonstrated by an undergraduate GPA of at least 3.00 (on a 4.00 scale) in the last 60 hours of BSW coursework. Advanced Standing applicants should also demonstrate mastery of generalist social work practice, as evidenced by an earned grade of a B or better in their BSW field placements. (For split BSW field placements, students should demonstrate mastery of generalist social work practice with an average of a B or better across both semesters of the split placement.) Prospective students who do not meet these GPA and field grade requirements should apply for the Traditional program instead of the Advanced Standing program.
4. **Course Prerequisites:** Applicants must have one college-level course in statistics prior to registering for the first semester in the MSW program.
5. **References:** Applicants must submit three letters of recommendation from individuals who can address the applicant's academic abilities and interpersonal skills, potential for graduate education and potential for professional social work practice. It is required that at least one reference be an academic reference from an academic advisor or instructor and that one of these references be from a field instructor.
6. **Professional Statement.** Applicants must submit a well-written professional statement, 750-1,500 words, that addresses:
 - What motivated you to pursue an MSW?
 - How do your values connect with the values of the social work profession?
 - What personal strengths and weaknesses will impact you as a social worker?
 - Describe experiences and leadership opportunities you have had that will help you succeed in this graduate program.
 - Discuss any significant volunteer or work experiences related to social work.
 - What are your professional goals in social work?
 - What are your professional goals and plans in social work?
 - Please share two TCU Department of Social Work faculty members you would be interested in engaging with during your time in the TCU MSW program.
7. **Resume.** Applicants will submit a current resume or vitae with their application.

Transfer Credit

The MSW Program may accept up to 10 transfer credits from: 1) a CSWE-accredited MSW Program for foundation year courses, or 2) a CSWE-accredited MSW Program or another graduate program in a related field for concentration year electives. No transfer credit will be awarded for practice courses, required concentration-year courses or for field education.

In addition, requests for transfer course credit must meet the following criteria:

1. The student requesting credit for graduate coursework must be admitted to TCU's MSW Program prior to approval of a request for transfer credit. However, admission to the MSW Program does not guarantee approval of transfer credits.

2. Upon admission, the student may request a review of graduate course(s) taken to determine whether the course(s) may be transferred for credit.
3. A minimum grade of "B" must have been earned in each course proposed for transfer credit.
4. When requesting transfer credit, a student must submit: a letter of request to the TCU MSW Program director that identifies the course(s) for which transfer credit is requested, a copy of the official catalog of the university where the course was taken, a copy of the course syllabus and an official transcript showing the grade earned.

Grading Policy

Course grades, both classroom and field, provide a measure of student performance in the course. Quality of performance is evaluated with respect to course objectives. While these objectives are collectively determined, it is the singular responsibility of the instructor to evaluate student performance in respect to these standards and thus to determine the grade.

In the Department, course credit is given for the grades A, B, and C. No credit is given for any grade below a C. If a student earns below a C, they will be terminated from the MSW program. In the computation of the grade-point average, all grades of C will be included, but no more than two C grades may be utilized in satisfying degree requirements. For MSW students, a grade point average of at least 3.0 in all graduate courses in the major and supporting work must be maintained to completion of the program.

Grades from other institutions are not included in the grade point average. Only upper-division and graduate-level courses taken in graduate status for a letter grade are counted in the average. Students must satisfy all prerequisite incompletes before starting final year coursework and the final field placement. Conditionally admitted students may not take a grade of I, as part of the criteria for achieving "good academic standing" after admission. Candidates for graduation should not take a grade of I in their final semester, or graduation will be delayed and additional course work in a future semester of graduation will be required.

Graduation

To graduate, students must be enrolled in the MSW program during the semester in which they will graduate and have successfully completed all required coursework toward the MSW or dual degree. Additionally, students must have no incompletes (Is) and have a 3.0 cumulative graduate GPA or better in all courses.

ACADEMIC WARNING STATUS AND TERMINATION FROM THE MSW PROGRAM

If a student's overall grade-point average falls below 3.0, the student is placed on academic warning status. While in warning status, a student who wishes to continue in the degree program may not drop any course or withdraw from the University without the approval of their academic advisor, MSW Program Director and Department Chair. In the next semester in which the student enrolls, the overall grade-point average must be raised to 3.0 or the student is dismissed from further study.

Certain additional circumstances make it possible for a student to be dismissed from continuation in the MSW program. All students receiving a grade of C or an I (incomplete) in any semester will have their academic progress in the program reviewed in a joint meeting of their academic advisor and the program director. Additionally, students who earn two or more C's or a single F grade during the program will be terminated from the program. If the third C or a single F is earned in the final semester, a degree will not be conferred. Students will be notified in writing of adverse decisions regarding their continuation in the program. Students may appeal in writing to the program director for continuation in the program. They may also follow the university grade appeal process if they would like to appeal a course grade.

Criteria for dismissal from the major includes academic performance and nonacademic criteria. Nonacademic criteria related to professionalism and ethical behavior is considered part of the academic arena of a professional program. As such, a student could be dismissed from the program for failing to uphold the ethical guidelines of the profession and for personal issues that affect professional performance.

Therefore, students can be eliminated from the program for academic or professional reasons. These gatekeeping efforts, counseling students in or out of the program, are supported by the university and by the judicial system.

Social Work, MSW

MSW Degree Requirements

The foundation curriculum lays the groundwork for the advanced content. Students must complete coursework in professional foundation (knowledge, values, skills, ethics), practice (micro and macro), human behavior, social welfare policy, diversity and social justice, and research. Two-semester field education courses give students the opportunity to apply the foundation knowledge to enter the concentration area of study.

The concentration curriculum builds on the foundation curriculum and has an advanced generalist focus so that graduates can assume practice, supervisory, and administrative roles in organizations. The concentration curriculum allows students to choose electives in the areas of children and families, and health and mental health.

All students complete a full year of advanced practice courses: SOWO 65803 Administration and Management, SOWO 65813 Evaluation Research, SOWO 65873 Advanced Practice, and SOWO 65833 Perspectives on Mental Health Practice. In addition to these required courses, the concentration curriculum provides for students to take two electives in order to enhance their knowledge and skills in an area of specialization. The advanced field education and seminar courses allow students to apply their advanced knowledge and skills to an area of specialization.

Traditional Full-time MSW Program Curriculum (2-year)

MSW Foundation – Year 1

Fall

SOWO 61803	Professional Foundation	3
SOWO 61813	Research Methods in Social Work	3
SOWO 61843	Human Behavior and the Social Environment 1	3
SOWO 61873	Micro Practice	3
SOWO 61883	Field Education 1	3

Spring

SOWO 61823	Diversity and Social Justice	3
SOWO 61833	Macro Practice	3
SOWO 61853	Human Behavior and the Social Environment 2	3
SOWO 61863	Social Welfare Policies and Services	3
SOWO 61893	Field Education 2	3

MSW Concentration – Year 2

Fall

SOWO 65813	Evaluation Research	3
SOWO 65833	Perspectives on Mental Health Practice	3
SOWO 65873	Advanced Practice	3
SOWO 65883	Field Education 3	3
SOWO 65823	Field Seminar 3	3

Spring

SOWO	Elective	3
SOWO	Elective	3
SOWO 65803	Administration and Management	3
SOWO 65893	Field Education 4	3
SOWO 65863	Field Seminar 4	4

Advanced Standing Full-time MSW Program

Curriculum (1-year):

Fall		
SOWO 65813	Evaluation Research	3
SOWO 65833	Perspectives on Mental Health Practice	3
SOWO 65873	Advanced Practice	3
SOWO 65883	Field Education 3	3
SOWO 65823	Field Seminar 3	3

Spring		
SOWO	Elective	3
SOWO	Elective	3
SOWO 65803	Administration and Management	3
SOWO 65893	Field Education 4	3
SOWO 65863	Field Seminar 4	4

MSW and /MATM/MTS/MDiv-Dual Degree Program

The purpose of this dual degree offering is to equip graduates to assume leadership positions in a wide variety of divinity ministries and social service agencies and organizations. The program is designed to help graduates apply advanced social work knowledge and skills in addition to theological studies to religious and social service agencies. The dual degree prepares graduates for positions that promote human rights and social and economic justice.

The MSW–MATM, MSW–MTS and the MSW–MDiv degrees represent the Master of Social Work, Master of Arts in Theology and Ministry, Master of Theological Studies, and Master of Divinity degrees.

Admissions/Degree Requirements

Candidates must be admitted to the Department of Social Work's Master of Social Work (MSW) Program and the Brite Divinity School's Master of Arts in Theology and Ministry (MATM), Master of Theological Studies (MTS) or Master of Divinity (MDiv) program. Students who elect to complete the MSW without continuing into a Brite degree program, must meet all remaining requirements for the MSW (i.e., elective units in the MSW Program). Students must apply for dual degree status prior to completing 21 hours in either program (Advanced Standing MSW students will need to declare at admission into the program). Students admitted to the dual degree program must meet all requirements of both programs.

Students in the Traditional MSW Program who enter the dual degree program will be able to complete the MSW requirements by taking their elective courses from a departmentally approved list of courses offered at Brite Divinity School. Choices of field placement will be made on an individual basis through consultation with both the Department of Social Work and Brite Divinity School. Students will register conjointly at both institutions for 6 hours of field work, but will only pay the tuition at Brite for those hours.

A full-time student in the Dual Degree Traditional MSW Program would have coursework that looks like the following:

DUAL DEGREE – MSW AND DEGREE FROM BRITE DIVINITY SCHOOL (MDiv, MATM, MTS)

MSW - Year 1

Fall		
SOWO 61803	Professional Foundation	3
SOWO 61813	Research Methods in Social Work	3
SOWO 61843	Human Behavior and the Social Environment 1	3
SOWO 61873	Micro Practice	3

SOWO 61883	Field Education 1	3
Spring		
SOWO 61823	Diversity and Social Justice	3
SOWO 61833	Macro Practice	3
SOWO 61853	Human Behavior and the Social Environment 2	3
SOWO 61863	Social Welfare Policies and Services	3
SOWO 61893	Field Education 2	3

MSW - Year 2

Fall		
SOWO 65813	Evaluation Research	3
SOWO 65833	Perspectives on Mental Health Practice	3
SOWO 65873	Advanced Practice	3
SOWO 65883	Field Education 3	3
SOWO 65823	Field Seminar 3	3

Spring		
SOWO	Elective	3
SOWO	Elective	3
SOWO 65803	Administration and Management	3
SOWO 65893	Field Education 4	3
SOWO 65863	Field Seminar 4	3

*Six hours of electives are chosen from courses at Brite Divinity School.

DUAL DEGREE FOR ADVANCED STANDING STUDENTS MSW AND DEGREE FROM BRITE DIVINITY SCHOOL (MDiv, MATM, MTS)

Students in the Advanced Standing MSW Program who enter the dual degree program will be able to complete the requirements of the MSW by taking their elective courses from a departmentally approved list of courses offered at Brite Divinity School. Choices of field placement will be made on an individual basis through consultation with both the Department of Social Work and Brite Divinity School. Students will register conjointly at both institutions for 6 hours of Field Work, but will only pay the tuition at Brite for those hours.

A full-time student in the Advanced Standing Dual Degree MSW Program would have coursework that looks like the following:

Advanced Standing Full-time MSW Program Curriculum (1-year):

Fall		
SOWO 65813	Evaluation Research	3
SOWO 65833	Perspectives on Mental Health Practice	3
SOWO 65873	Advanced Practice	3
SOWO 65883	Field Education 3	3
SOWO 65823	Field Seminar 3	3

Spring		
SOWO	Elective*	3
SOWO	Elective*	3
SOWO 65803	Administration and Management	3
SOWO 65893	Field Education 4	3
SOWO 65863	Field Seminar 4	4

*Six hours of electives are chosen from courses at Brite Divinity School.

Women & Gender Studies Certificate

Required Social Work Courses

SOWO 61823	Diversity and Social Justice	3
SOWO 61843	Human Behavior and the Social Environment 1	3
SOWO 61803	Professional Foundation	3

The fourth course is one of two graduate-level courses in women and gender studies:

WGST 50103	Feminist/Queer Inquiry	3
WGST 60003	Colloquium on Feminist Theory	3

The SOWO courses are to be taken in the first year of the program as part of the typical Traditional program curriculum.

For the WGST courses, one will be offered each semester, and can be taken in place of one of the second-year social work electives to fulfill WGST Certificate requirements.

Critical Race and Ethnic Studies Certificate

Required Social Work Courses

SOWO 61843	Human Behavior and the Social Environment 1	3
SOWO 61803	Professional Foundation	3

The third course is a graduate-level course in critical race and ethnic studies:

CRES 60003	Graduate Introduction to Comparative Race and Ethnic Studies	3
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The SOWO courses are to be taken in the first year of the program.

The CRES course will be offered each semester, and can be taken in place of one of the second-year social work electives to fulfill CRES Certificate requirements.

College of Science & Engineering

The College of Science & Engineering includes eleven departments:

Biology
 Chemistry & Biochemistry
 Computer Science
 Engineering
 Environmental Sciences
 Geological Sciences
 Mathematics
 Nutritional Sciences
 Physics & Astronomy
 Psychology
 Ranch Management

The college offers graduate study for master's and doctoral degrees in several areas. Master of Arts degrees are available in biology, chemistry, environmental science, physics and psychology. Master of Science degrees are offered in biology, chemistry, developmental trauma, dietetics, environmental science, geology, mathematics, physics and psychology. A Master of Arts in Teaching is available in mathematics. A Master of Environmental Management is available in environmental science. A Certificate program is available from in ranch management. The Ph.D. is available in biology, chemistry, mathematics, physics and psychology.

Program descriptions and information concerning admission and degree requirements are presented in departmental and program listings. Detailed information about the application for admission process can be found at: <https://cse.tcu.edu/academics/graduate-programs.php>

Administrative offices for the College of Science & Engineering are located on the first floor of the Tucker Technology Center (Suite 102). Tucker also houses the departmental offices of computer science, engineering and mathematics. Chemistry & biochemistry, environmental sciences, geological sciences, and physics & astronomy are located in the Sid W. Richardson Building. Departmental offices for biology and psychology are in Winton-Scott Hall. Nutritional Sciences is located in the Annie Richardson Bass Building. Ranch Management offices are in the Ranch Management Building.

Biology

Students may pursue the Master of Arts, the Master of Science, and the Doctor of Philosophy in Biology.

Prerequisites for the MA, MS, and Ph.D. degrees: A BA or BS degree with a biology major or 24 semester hours of biology including intermediate or advanced undergraduate courses in cellular and molecular biology, organismal biology, ecology, evolution, genetics, physiology, microbiology or their equivalents. Students with majors in other areas may be considered upon request but may be required to make up any deficiencies in their undergraduate preparations. The undergraduate GPA should be 3.0 or higher (on a 4.0 scale).

The GRE is not required. Any submitted GRE score is part of a holistic review of each application and official documents are required if scores are submitted for inclusion with the application.

As part of their professional training, full-time graduate students in biology with biology assistantships are required to participate in the undergraduate teaching function of the department. This requirement is met by assisting in undergraduate labs, giving laboratory instructions, leading seminars or discussion groups, and grading written assignments and exams.

Biology, MA (Non-Thesis)

Requirements

The Master of Arts in Biology comprises 36 hours of graduate coursework including

BIOL 60001	Scientific Presentation	1
BIOL 60910	Biology Seminar	1
BIOL	22 additional hours in biology minimum	22
	Approved Electives	12
	Limit of three hours of assigned problems unless approved by graduate committee or department chair	

Biology MS Requirements

The Master of Science in Biology comprises 30 approved graduate hours, including

BIOL 60001	Scientific Presentation (1 hour)	1
BIOL 60910	Biology Seminar (1 hour)	1
BIOL 70980	Thesis	1-3
BIOL 70990	Thesis	1-3
BIOL	13 additional hours in biology (minimum)	13
	9 hours of approved electives	9
	Limit of three hours of assigned problems unless approved by graduate committee or department chair	

Biology, Ph.D. Requirements

The program leading to the Ph.D. in biology has a research emphasis reflecting the desire to train students in the process of science. An additional program goal is to train students to be effective science communicators and teachers. Students entering the Ph.D. program will have met all of the prerequisites for the program, including having successfully defended a master's thesis under the direction of a biology faculty member at TCU. The GRE is not required. Any submitted GRE score is part of a holistic review of each application and official documents are required if scores are submitted for inclusion with the application.

Completion of the following courses:

BIOL 60320	Graduate Research in Biology (At least 9 hours)	1-6
BIOL 60703	Advanced Teaching in Biology	3
BIOL 80703	Teaching Practicum in Biology	3
BIOL 90980	Dissertation	6
BIOL 90990	Dissertation	6
	At-least-3-graduate-level-seminar-courses	1

Research-specific coursework

After successfully defending the MS thesis (typically in the spring semester of the second year), the student decides on his/her direction of

research and dissertation adviser. Based on the recommendation of the Committee on Graduate Studies in biology, the dean appoints a Ph.D. Advisory Committee of at least five members, including the dissertation adviser as chair. Students are encouraged to have one committee member from outside of their discipline and one committee member from outside of TCU. The student and advisory committee agree on a detailed plan of study to prepare the student for dissertation research and any additional required coursework. At least 9 hours of BIOL 60320 Graduate Research in Biology, BIOL 60703 Advanced Teaching in Biology, BIOL 80703 Teaching Practicum, 6 hours of 90980 Dissertation and 6 hours of BIOL 90990 Dissertation are required. Enrollment and participation in at least three graduate-level seminars is also required.

Qualifying examination

The student will prepare a written research proposal for their dissertation research the summer following the defense of the master's thesis. The specific format of the written research proposal may vary by sub-discipline within biology and will be determined by the dissertation advisory committee in consultation with COGS. For the qualifying examination, the student will give a research proposal presentation to the biology department and defend the research proposal to their advisory committee during the fall semester of the third year. The research proposal is evaluated by the advisory committee on a pass/fail basis, and the student will have two attempts to pass the examination (the first attempt in the fall semester and second attempt in the spring semester of the third year). If the student is unable to pass the examination in two attempts, they will be terminated from the program. Upon successful completion of the qualifying examination, a student is formally admitted to candidacy for the Ph.D. degree.

Teaching experience

As teaching is considered an important part of the graduate training program, each student is required to participate in at least one substantive teaching experience after earning the MS in biology (typically in years 3-5 of the program). This experience may involve developing and teaching in an undergraduate lab or undergraduate seminar class, or teaching in an undergraduate lecture class. For each substantive teaching experience, the student will prepare a teaching proposal that must be approved by COGS and the Biology Curriculum Committee. During these semesters, the student enrolls in BIOL 80703 Teaching Practicum in Biology.

Dissertation

Completion of a dissertation consisting of an original research project directed by a faculty member at TCU is required. Each student presents a departmental seminar on the dissertation research and defends the dissertation in an oral examination before the advisory committee. At least one paper based on the dissertation research must be published, accepted for publication, or submitted for publication and under active review in an appropriate scientific journal (as determined by the advisory committee).

There is no language requirement for the Ph.D. in biology. Failure to meet these requirements may result in termination from the program.

Chemistry & Biochemistry

Students may pursue the Master of Arts, Master of Science and Doctor of Philosophy in Chemistry.

Prerequisites for the MA, MS and Ph.D. degrees: A baccalaureate degree in chemistry from an approved college or university with an academic record meeting the standards established by TCU. Students who have majored in related areas will be considered if it is believed that the relevant undergraduate chemistry background can be acquired during the first year of graduate study.

The GRE is not required. Any submitted GRE score is part of a holistic review of each application and official documents are required if scores are submitted for inclusion with the application.

General Requirements

All graduate students must satisfy the core course requirements in three out of four areas of chemistry through placement examination or *appropriate courses*. The examinations are at the level expected for an ACS-certified BS degree. These examinations are given during the week prior to the beginning of the fall and spring semesters.

Students must take at least three exams upon entering the program. Courses are selected from the following: CHEM 50133 Biochemistry, CHEM 50223 Advanced Organic Chemistry, CHEM 50282 Advanced

Physical Chemistry, CHEM 50290, Chemical Thermodynamics and CHEM 50163 Advanced Inorganic Chemistry. A grade of "B" or better in the appropriate course is required to satisfy the requirement. *All graduate students must satisfy the core course requirements by the end of the third semester in residence.*

All graduate students are required to satisfactorily complete training in laboratory safety.

Chemistry, MA (Non-Thesis) Requirements

The Master of Arts in Chemistry (non-thesis option) requires a total of 36 approved hours, including at least 24 in chemistry with no more than a total of six hours of credit in the courses listed below:

CHEM 50120	Teaching of Chemistry	1-4
CHEM 50230	Special Problems in Chemistry	1-6
CHEM 60110	Seminar	1-3
CHEM 60240	Graduate Research in Inorganic Chemistry	1-6
CHEM 60260	Graduate Research in Organic Chemistry	1-6
CHEM 60270	Graduate Research in Physical Chemistry	1-6
CHEM 60280	Graduate Research in Biochemistry	1-6

Each student is also required to pass an oral examination based upon the chosen program of study.

The teaching experience is considered an important part of the graduate training program. Each student on the MA track is required to participate in a minimum of 2, but usually no more than 4, semesters of teaching.

Chemistry, MS Requirements

The Master of Science in Chemistry (thesis option) requires a total of at least 30 approved hours, including at least 15 in chemistry and 6 in thesis. Each student will defend their thesis in an oral examination.

The teaching experience is considered an important part of the graduate training program. Each student on the MS track is required to participate in a minimum of 2, but usually no more than 4, semesters of teaching.

Chemistry, Ph.D. Requirements

The Ph.D. in Chemistry comprises the following components:

Completion of the following courses:

CHEM 50120	Teaching of Chemistry	4
CHEM 90980	Dissertation	6
CHEM 90990	Dissertation	6

AND the following:

- Lecture courses** to provide the student with extensive depth and breadth of knowledge in major areas of chemistry.
- A seminar program** designed to supplement the traditional course program with presentations given both by visiting scholars and TCU students and faculty. Graduate students are required to present one departmental seminar on a topic selected from the current literature but not related to their own research. This is normally given in the second semester, and a second seminar describing the student's Ph.D. work is given in the last semester in residence.
- A research progress report** written and oral, to be presented to the student's supervisory committee by the end of the second year in residence. The written report must provide a summary of the research

results obtained up to that point as well as a plan for the future direction of the student's research project. The research progress is evaluated on a pass/fail basis.

4. **A cumulative examination program** designed to inform the faculty of the student's knowledge and ability in the chosen field and to guide the student in their own development. These examinations are given four times per semester during the academic year in the areas of inorganic, organic, physical chemistry and biochemistry. In general, they are based on advanced coursework and/or the current chemical literature. A student is expected to begin taking cumulative examinations no later than the beginning of the third semester. Once the cumulative examinations are begun, the student should normally pass two during the first six attempts and must pass a total of four within three semesters (12 attempts). Part-time students should consult with their faculty adviser concerning time limitations associated with the cumulative examinations.

5. **An original research proposal** covering a feasible research plan within their area of interest, but outside their current research efforts. This proposal should be at least five double-spaced pages, 12-point font, and not longer than 10 pages, including references. The proposal is evaluated by a student's supervisory committee on a pass/fail basis, defended in oral presentation before the supervisory committee, and should be completed by the beginning of the second regular semester following completion of the cumulative exams. Upon completion of the proposal defense, a student is formally admitted to candidacy for the Ph.D. degree. Admission to candidacy must occur at least one full semester before graduation.

6. **A teaching experience** is considered an important part of the graduate training program. Each student is required to participate in four semesters of teaching, normally as an assistant in an undergraduate laboratory course. During these semesters, the student enrolls in CHEM 50120.

7. **A dissertation** that is based upon the successful completion of an original research project. Each student presents a departmental seminar on the dissertation research and defends the dissertation in an oral examination before the student's supervisory committee.

Environmental Sciences

Students may pursue the Master of Arts, Master of Science and Master of Environmental Management.

Prerequisites for the MA/MS degrees: A bachelor's degree with a major in environmental science, biology, geology (or the equivalent) or a major in one of the other sciences, or engineering, or one of the social sciences. Students with undergraduate preparations different from these will be considered after careful review.

The student must have completed at least one year of biology, one semester of physical geology, one year of chemistry, one semester of calculus and one semester of introductory statistics. The GRE is not required. Any submitted GRE score is part of a holistic review of each application and official documents are required if scores are submitted for inclusion with the application.

Prerequisites for the MEM degree: The department accepts students with a variety of undergraduate majors, including the humanities, social sciences, natural sciences and engineering. However, in order to be adequately prepared for the required coursework, MEM applicants should have completed two semesters in any combination of biology, geology or chemistry; one semester of either calculus or introductory statistics; and one semester of upper-level ecology. Students lacking some of this preparation may be accepted for admission, but are expected to make up the deficiencies prior to entrance by means of formal coursework or other arrangements agreed upon by the applicant and the director.

Program of Study

Each student prepares an individual Program of Study (POS) designed specifically for the student's particular background and goals. The POS is prepared in consultation with the student's major professor and the director of the program.

Each student, regardless of the graduate degree selected, is also required to pass an oral examination based upon the chosen program of study.

Environmental Science, MA Requirements (Non-Thesis)

The Master of Arts in Environmental Science requires at least 36 semester hours made up as follows:

Required Courses (12 semester hours)

ENSC 50703	Environmental Compliance	3
ENSC 50693	Natural Resources Compliance	3
ENSC 60203	Environmental Issues	3
(includes ENSC 70010, 70030, 70040)	Applied Research	3
	OR	
ENSC 70003	Environmental Internship	3

Elective Internship (3 semester hours)

Students may complete an approved internship with a company, government agency or national laboratory. Three credit hours may count toward their degree plan through the internship. The purpose of the internship program is to train and equip students for future careers as environmental professionals. It provides the opportunity for students to experience first-hand actual environmental challenges in government, industry, public interest groups and scientific research organizations. The program reaches beyond the campus to provide practical experience individually tailored to each student's academic goals and capabilities. Part-time students who already work in their area of study may fulfill the internship requirement by working on a special project with their current employer. All projects require a brief proposal and approval from the program director. At the conclusion of this internship, students must present a summary of their internship project(s) in both oral and written form.

Electives (24 semester hours)

The electives are selected in consultation with the director of the program. Students may count up to an additional 3 hours of Applied Research toward their electives.

Environmental Science, MS Requirements

The Master of Science in Environmental Science requires at least 30 semester hours with a thesis. These semester hours are made up as follows:

Required Courses:

ENSC 60203	Environmental Issues	3
ENSC 50703	Environmental Compliance	3
	OR	
ENSC 50693	Natural Resources Compliance	3
ENSC 70980	Thesis (3 hours)	1-3
ENSC 70990	Thesis (3 hours)	1-3
Electives	Approved Electives	15

Thesis (6 semester hours)

Students, in consultation with a faculty member, should select an appropriate research topic normally at the end of their first year of graduate work. At this time, students present and defend a thesis proposal to the faculty, where they show a grasp of the literature and have a well-defined rationale and set of objectives, a planned methodology, and an appropriate budget. If approved, students proceed with their research until submission of the thesis as per TCU guidelines. Each student will defend his/her thesis in an oral examination.

Electives (18 semester hours)

The electives are selected in consultation with the student's major professor and the director of the program.

Environmental Management, MEM Requirements

The Master of Environmental Management is designed to equip students with the skills needed to bridge the gaps between science, business and government. The degree plan requires at least 36 semester hours as follows:

Required Courses (30 semester hours)

ENSC 50793	Environmental Sustainability	3
	OR	
ENSC 60353	Wildlife Ecology and Management	3
ENSC 50783	Environmental Chemistry	3
	OR	
ENSC 50493	Physical Hydrology	3
ENSC 50693	Natural Resources Compliance	3
ENSC 50703	Environmental Compliance	3
ENSC 60203	Environmental Issues	3
(includes ENSC 70010, 70030, 70040)	Applied Research	3
	OR	
ENSC 70003	Environmental Internship	3
ACCT 60010	Financial Reporting	1.5
ACCT 60020	Accounting for Managerial Planning and Control	1.5
MANA 60330	Engaging People	1.5
MANA 60340	Leading Teams and Orgs	1.5
MANA 60460	Business Ethics	1.5
MANA 70610	Essentials of Negotiation	1.5

Night option:

FINA 60013	Management of Financial Resources	3
	OR	

Day option:

FINA 70970	Special Problems in Finance	1.5
INSC 60060	Decision Models	1.5

Students taking ACCT 60010 and ACCT 60020 must participate in a pre-semester workshop. Contact Neeley School Graduate Programs Office for information: 817-257-7991.

Specialization/Electives/Internship (6 semester hours)

Students may complete an approved internship with a company, government agency or national laboratory. The purpose of the internship program is to train and equip students for future careers as environmental professionals. It provides the opportunity for students to experience first-hand actual environmental challenges in government, industry, public interest groups and scientific research organizations. The program reaches beyond the campus to provide practical experience individually tailored to each student's academic goals and capabilities.

Part-time students who already work in their area of study may fulfill the internship requirement by working on a special project with their current employer. All projects require approval from the program director. At the conclusion of this internship, students must present a summary of their internship project(s) in both oral and written form.

Geological Sciences

Students may pursue the Master of Science in Geology.

Prerequisites: A BA or BS from an acceptable college of university with an academic record meeting the standards of TCU.

The GRE is not required. The GRE score is part of a holistic review of each application and official documents are required if scores are submitted for inclusion with the application.

Students who have majored in an area other than geology may be admitted if undergraduate deficiencies can be removed within a reasonable amount of time. An applicant's academic record should demonstrate knowledge both of the other sciences necessary to the field of concentration and of mathematics through differential and integral calculus. If these areas are deficient, the student may be counseled to take non-credit background courses.

Geology, MS Requirements

The Master of Science in Geology requires at least 30 semester hours with a thesis. These semester hours are made up as follows:

Required Courses:

GEOL 60710	Geology Seminar (3 hours)	1
GEOL 70980	Thesis	3
GEOL 70990	Thesis	3
Geology	Approved Electives	12

The Master of Science in Geology requires a total of at least 30 approved hours, including at least 12 in geology (of which 3 must be in GEOL 60710); 6 in thesis, approved electives or 9-hour minor in a related graduate field may be substituted for geology courses. Students must maintain a minimum GPA of 3.0.

Mathematics

Mathematics is available on the Master of Arts in Teaching, Master of Science and Doctor of Philosophy degrees.

Prerequisites for the MAT: A baccalaureate degree with the equivalent of a major in mathematics consisting of courses through elementary calculus of one and several variables, linear algebra and at least eight hours of approved advanced courses.

Prerequisites for the MS: A BA or BS degree with a mathematics major or 24 semester hours of mathematics, including courses in elementary calculus of one and several variables, linear algebra and at least eight hours of departmentally approved advanced undergraduate courses in mathematics. Students deficient in any area of preparation may be required to take the necessary coursework during the first year of graduate study.

Prerequisites for the Ph.D.: BA or BS with a mathematics major or 24 semester hours of mathematics, including courses in elementary calculus of one and several variables, linear algebra, abstract algebra and real analysis. Students deficient in any area of preparation may be required to take the necessary coursework during the first year of graduate study.

The GRE is not required. Any submitted GRE score is part of a holistic review of each application and official documents are required if scores are submitted for inclusion with the application.

Mathematics, MAT Requirements

The Master of Arts in Teaching program includes 24 hours of graduate mathematics courses and at least nine hours of graduate education courses. The MAT Program totals 36 hours. The remaining three-hour course may be chosen in either graduate mathematics or education, with approval of the MAT graduate program director.

Mathematics coursework must include

MATH 50253	Abstract Algebra I	3
MATH 50503	Real Analysis I	3
MATH 60023	Survey of Mathematical Problems I	3

All 50000-level courses count towards the MAT degree, subject to University limitations.

Graduate education coursework shall include at least 9 hours from the following:

EDMT	Any EDMT 50000 level 3-hour course	3
EDSP 50663	Motivating and Managing Students in the Classroom	3
EDSP 58003	Methods for Students with Mathematics Learning Differences	3
EDSP 60233	Understanding Exceptional Children and Youth At-Risk	3
EDUC 50003	Diversity in American Education	3
EDUC 60213	Psychology of Thinking and Learning	3
EDUC 60253	Historical and Philosophical Foundations of Education	3
EDUC 60313	Educational Assessment	3
EDUC 60980	Advanced Clinical Teaching	6

*EDUC 60980 requires 6 hours.

Students seeking a secondary certificate in mathematics must independently apply to and be accepted by the Teacher Education Program in the TCU College of Education upon their enrollment in the MAT Program. Note that additional coursework is likely and will be determined by the College of Education, depending upon the student's background.

Mathematics, MS

Requirements

The Master of Science in Mathematics program consists of 36 hours of graduate coursework, from the three areas specified below. In accordance with University policy, a GPA of at least 2.75 must be maintained with no more than two passing grades of "C+" or lower being utilized in satisfying the degree requirement.

Core Coursework (15 hours)

Coursework for the MS degree must include the following five core courses:

MATH 50253	Abstract Algebra I	3
MATH 50403	Complex Analysis	3
MATH 50503	Real Analysis I	3
MATH 60513	Multivariable Analysis	3
MATH 60223	Applied Linear Algebra	3

An advanced student may be waived from any or all of these required courses by passing the corresponding Ph.D. preliminary exam(s) or otherwise showing proficiency in the material, as determined by the department.

Specialized Coursework (12 hours)

In addition to the five core courses, at least four courses are to be chosen from either the Pure Mathematics Option or the Applied Mathematics Option (refer to course listings below).

Pure Mathematics Option:

This track of the MS Program is intended to prepare students for careers in academia. Each student selecting this track will take at least four of the pure mathematics courses listed below:

MATH 50323	Differential Geometry	3
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MATH 50703	Number Theory	3
MATH 60263	Abstract Algebra II	3
MATH 60313	Topology	3
MATH 60323	Algebraic Topology I	3
MATH 60413	Advanced Complex Analysis	3
MATH 60503	Real Analysis II	3
MATH 60523	Measure Theory	3
MATH	Any MATH 70000 level 3-hour course	3

Applied Mathematics Option:

This track of the MS Program is intended for students planning to use mathematics in careers outside academia. Each student selecting this track will take at least four applied mathematics courses from the list below:

MATH 50613	Partial Differential Equations	3
MATH 60103	Graph Theory	3
MATH 60663	Numerical Analysis	3
MATH 60553	Modern Fourier Analysis	3
MATH 60653	Game Theory	3
MATH 60613	Differential Equations of Mathematical Physics	3
MATH 60643	Dynamical Systems and Applications	3
MATH 60853	Regression & Time Series	3
MATH 60883	Predictive Modeling	3

Up to 6 hours of the applied mathematics courses may be substituted with graduate coursework taken in the departments of Biology, Chemistry, Computer Science or Physics & Astronomy, or from Geological Sciences or Environmental Sciences, with approval from the student's graduate advisor in the Department of Mathematics.

Master's Thesis or Electives (9 hours)

The student may choose either to write a master's thesis (three hours of MATH 70980 and three hours of MATH 70990) and complete three hours of approved elective coursework, or to complete nine hours of approved elective coursework. Based on the recommendation of the department, the dean appoints a Master's Advisory Committee of at least three members, including the thesis advisor as chair. For the student to be eligible for the degree, the Master's Advisory Committee must approve the thesis upon its completion. The thesis need not contain original research but must demonstrate a deep and thorough understanding of some area of mathematics.

Mathematics, Ph.D.

Requirements

The Ph.D. in mathematics consists of coursework, examinations, and research, as specified below. In accordance with University policy, a GPA of at least 2.75 must be maintained with no more than two passing grades of "C+" or lower being utilized in satisfying the degree requirement.

Core Coursework (27 hours):

Coursework for the Ph.D. must include the following nine core courses:

MATH 50253	Abstract Algebra I	3
MATH 60263	Abstract Algebra II	3
MATH 50503	Real Analysis I	3
MATH 60503	Real Analysis II	3
MATH 60513	Multivariable Analysis	3
MATH 60223	Applied Linear Algebra	3
MATH 60313	Topology	3

MATH 60323	Algebraic Topology I	3
MATH 60413	Advanced Complex Analysis	3
	AND	
MATH 80880	Graduate Student Seminar	3
MATH 90980	Dissertation	1-6
MATH 90990	Dissertation	1-6

Any or all of these courses may be waived for more advanced students by departmental permission.

Preliminary Examinations

The program requires substantial training in algebra, real analysis, topology, and complex analysis. The student must pass three of the following four preliminary written exams:

- Real Analysis Exam (based on MATH 50503 and MATH 60513)
- Algebra Exam (based on MATH 30224, MATH 50253 and MATH 60263)
- Topology Exam (based on MATH 60313 and MATH 60323)
- Complex Analysis Exam (based on MATH 50403 and MATH 60413)

The student must pass the Real Analysis Exam, the Algebra Exam, and either the Topology Exam or the Complex Analysis Exam. These exams are administered twice each year and must be passed by the end of the sixth semester.

Research-Specific Coursework

After passing the preliminary examinations, the student decides on their direction of research and dissertation advisor. Based on the recommendation of the department, the dean appoints a Ph.D. Advisory Committee of at least four members, including the dissertation advisor as chair.

Possible areas of research specialization include real analysis, complex analysis, functional analysis, algebraic geometry, differential geometry, number theory, topology, global analysis and K-theory.

Students must also take at least one semester of three hours of MATH 80880 Graduate Student Seminar, providing training in the oral presentation of research-level mathematics.

Qualifying Examination

The student and advisory committee agree on a detailed plan of study to prepare the student for mathematical research. They decide on a syllabus of qualifying topics; after due preparation, the student takes the oral qualifying exam on these topics, administered by the advisory committee. In accordance with University requirements, the exam can only be taken after passing the preliminary examinations and not before the second semester of the second year. If the exam is not passed, at most one re-examination is allowed.

Admission to Candidacy

The student advances to candidacy after passing the qualifying examination.

Research

The student performs research in his/her area of specialization, which leads to a dissertation, if successful.

Dissertation (at least 12 hours)

Admission to candidacy is the prerequisite to enrollment in dissertation research, consisting of an original research project directed by a graduate faculty member at TCU. 6 hours of MATH 90980 Dissertation and 6 hours of MATH 90990 Dissertation are required. According to University policy, the time allowed to complete the dissertation is at most six years after advancement to candidacy. Also in accordance with University rules, the student must submit an Intent to Graduate form at the beginning of the last semester, for which there is a non-refundable fee. For the student to be eligible for the degree, the Ph.D. Advisory Committee must approve the dissertation upon its completion. A final oral examination is required and is open to the public.

Nutritional Sciences

Students may pursue the Master of Dietetics on the Combined BS/MS Dietetics Program.

Mission: The mission of the MS in dietetics is to support the missions of the University, college and department by providing a quality advanced

academic curriculum with a concentration in nutrition education that prepares students to be scientifically competent, accountable and ethically responsible citizens who are prepared to be productive, self-educating leaders within the dietetics profession and the global community.

Dietetics, MS

Requirements

Program of Study

The MS in dietetics provides the opportunity to complete the necessary coursework and supervised practice hours after completing the TCU Bachelor of Science in Dietetics. Curriculum is based on educational standards mandated by the Accreditation Council for Education in Nutrition and Dietetics (ACEND). The Combined BS/MS in Dietetics offers the unique opportunity to acquire the required didactic instruction (lecture and laboratory courses) and supervised practice experience hours necessary to meet the Core Knowledge and Competencies for the Registered Dietitian Nutritionist as mandated by ACEND. Graduates receive verification and establish eligibility to write the Registration Examination for Dietitians.

Admission to TCU is required for all programs; however, admission to the University does not guarantee admission to the Combined BS/MS in Dietetics. Eligibility for admission to the Combined BS/MS in Dietetics is based on successful completion of at least 60 semester hours with a GPA of at least 3.0 for required Nutrition (NTDT) classes and an Associated Requirements GPA of 2.75, no more than three grades below a B- in the Associated Requirements, 45 semester hours of required prerequisites and major courses, 200 hours of documented food or nutrition practical experience, and an application packet.

Application packets for the Combined BS/MS in Dietetics must be received by Feb. 1 (typically of the sophomore undergraduate year), and applicants are notified of provisional acceptance by April 15 of the same year. Students who are provisionally accepted begin the program in August of the following academic year (typically the junior year). Final acceptance/enrollment in the Combined BS/MS in Dietetics depends on successful completion of required prerequisite courses and summer requirements. The GRE is not required for this degree.

Students must apply for graduate school admission during the last fall semester before graduating with the BS in Dietetics (typically the senior fall). Current graduate application fees apply. Students must comply with all university and college requirements for graduate students to gain admission. Conditional admission to the MS program in Dietetics is granted to applicants who have completed all admission formalities, have a superior undergraduate record but who have not completed undergraduate requirements. Conditional admission will be changed to unconditional admission when the necessary prerequisites and/or admission formalities are fulfilled. Students must abide by all program policies and procedures in order to continue in the MS in Dietetics program.

A student's continuation in the Combined BS/MS in Dietetics is contingent upon attainment of a strong academic record and successful completion of the program sequence.

In order to earn the BS in Dietetics degree, the student must attain a minimum GPA of 3.0 in required NTDT courses, earn a grade of "C-" or better in all required NTDT courses and Associated Requirements, earn no more than 3 grades below a "B-" in the Associated Requirements, complete a minimum of 126 hours, and meet all of the requirements of the university and college. Students who do not meet all of these requirements for graduation with the BS in Dietetics or the requirements for admission in the graduate program may change their major to Nutrition or another major in order to graduate with a bachelor's degree, but cannot continue in the Combined BS/MS in Dietetics. Students who do not meet all of these requirements to continue in the Combined BS/MS in Dietetics have the option to pursue verification from the TCU Didactic Program in Dietetics in order to be eligible to pursue a Dietetic Internship upon graduate and/or graduate with a BS in either Nutrition or Dietetics.

Students enrolled in the MS in Dietetics who do not meet all of the requirements to graduate with an MS in Dietetics have the option to pursue verification from the TCU Didactic Program in Dietetics (DPD) in order to be eligible to pursue a dietetic Internship if they have earned a BS in Dietetics from TCU. Students must formally apply to the DPD and satisfy all DPD requirements for verification. Acceptance into the DPD is

not guaranteed. Students are required to abide by all DPD policies and procedures.

Students can graduate with a BS in Dietetics and begin the graduate program, but they will not earn verification to take the Registration Examination for Dietitians if they are unable to complete the graduate degree requirements and do not earn the MS in Dietetics degree. In order to earn the MS in Dietetics degree, the student must attain a minimum graduate NTDT GPA of 3.0 and earn a "C-" or better in all NTDT graduate courses. All final 50000- and 60000-level course grades will be included in the computation of the graduate GPA, but no more than two grades of "C+" or lower may be utilized in satisfying the degree requirements.

Students complete 12 hours of dual undergraduate/graduate credit during the fourth year of undergraduate study. At the end of the fourth year, assuming that all other undergraduate graduation requirements are met, the student earns the BS degree in Dietetics. Beginning with summer session following graduation in May the student completes the remaining 19 graduate credit hours (10 hours of coursework, 9 credit hours of supervised practice), toward the MS in Dietetics degree.

Students pursuing the thesis option will take an additional 6 credit hours. Students intending to pursue the Combined BS/MS in Dietetics must earn a BS in dietetics from TCU. In addition, all 30000, 40000, 50000 and 60000 NTDT courses must be taken from TCU, with the exception of NTDT 30123 Nutrition Throughout the Life Cycle and NTDT 30331 Medical Terminology.

Students may also choose to complete a thesis in the MS in Dietetics. In order to complete the thesis option, students must complete 3 hours of NTDT 70980 and three hours of NTDT 70990. Thesis students are required to complete all other coursework necessary for the MS in Dietetics.

Information about costs for tuition and University fees is available through the TCU Office of Admission or Financial Services. More detailed costs for students are outlined in the Combined BS/MS in Dietetics Student Handbook and include approximately \$1,000-\$1,500 per year for travel to supervised practice sites, vaccinations, lab fees, photocopying, school and office supplies, textbooks, lab coats, malpractice insurance and professional dues.

The TCU Combined BS/MS in Dietetics program is accredited by the Accreditation Council for Education in Nutrition and Dietetics, 120 S. Riverside Plaza, Suite 2190, Chicago, Ill. 60606-6995, (312) 899-0040, ext. 5400, www.eatright.org/ACEND.

Course Requirements:

Fourth year:

NTDT 55323	Gut Microbiota and Health	3
NTDT 55343	Biochemical, Physiological, and Molecular Aspects of Human Nutrition	3
NTDT 55363	Community Nutrition and Public Health	3
NTDT 55973	Nutritional Sciences Seminar	3

Summer fourth year:

NTDT 60303	Advanced Supervised Practice I	3
NTDT 60973	Nutritional Sciences Graduate Seminar	3

Fifth year:

NTDT 60020	Advanced Research Practice	1-3
NTDT 60313	Advanced Supervised Practice II	3
NTDT 60324	Advanced Supervised Practice III	4
NTDT 60443	Nutritional Genomics	3
NTDT 60453	Nutrition Ecology, Food, and Sustainability	3

Additional course requirements for thesis option:

NTDT 70980	Thesis	3
NTDT 70990	Thesis	3

Nutrition MS, with DPD Verification Requirements

Program of Study

The Master of Science program in Nutritional Sciences provides students with a course of study in advanced nutrition topics related to disease prevention and management, health optimization, and food and nutrition sustainability. The program prepares graduates for positions in advanced clinical, community, and management careers as well as careers in various industry settings. Students are able to tailor the degree with additional course options within, and outside of, Nutritional Sciences. This degree requires a minimum of 30 semester hours, including six hours of thesis, beyond a Bachelor's degree. Students must have a 3.0 GPA in prerequisite courses consisting of: General Chemistry I, General Chemistry II with lab, Organic Chemistry, Physiology with lab, and Nutrition. No GRE is required.

Students also have the option to pursue post-baccalaureate Didactic Program in Dietetics (DPD) verification with the MS in NUTR. The MS NUTR DPD track is specifically designed for students who hold a Bachelor's degree in a related or unrelated field, and want to pursue Accreditation Council for Education in Nutrition and Dietetics (ACEND) accredited supervised practice upon program completion, in order to become a Registered Dietitian/Nutritionist (RD/RDN).

The MS NUTR with DPD verification track requires a minimum of 22 hours of undergraduate credit of TCU NTDT courses (NTDT 30313 Food Systems Management, NTDT 30144 Quantity Food Production, 30233 Essentials in Dietetics Practice, NTDT 30333 Medical Nutrition Therapy I, NTDT 40343 Nutritional Biochemistry, NTDT 40333 Medical Nutrition Therapy II, NTDT 40403 Research Methods in Nutrition) as leveling courses, and a minimum of 30 semester hours of graduate credit, including six hours of thesis, beyond a Bachelor of Science degree. In addition to prerequisite courses required for the MS NUTR (General Chemistry I, General Chemistry II with lab, Organic Chemistry, Physiology with lab, and Nutrition) students must also complete additional prerequisite courses of Nutrition Throughout the Lifecycle, Medical Terminology, Microbiology, and either Human Behavior, Psychology, Sociology or Anthropology. Students must apply to, and be accepted into, the TCU DPD. Eligibility for admission to the DPD MS NUTR track is based on completion of prerequisite courses with a cumulative GPA of at least 3.0 for Nutrition (NTDT) classes; and an Associated Requirements GPA of at least 2.75, no more than 3 grades below a "B-" in the Associated Requirements, 200 hours of documented food or nutrition practical experience and an application packet. Students accepted to the DPD must apply to the MS in NUTR to receive conditional acceptance until they begin graduate coursework before they begin courses at TCU to pursue DPD verification or the MS in NUTR. A student's continuation in the DPD is contingent upon attainment of successful completion of the required courses. To earn DPD verification, the student must attain a minimum Nutrition (NTDT) GPA of 3.0, earn a "C-" or better in all NTDT and Associated Requirement courses, a maximum of three grades below a "B-" in the Associated Requirements, and complete 500 hours of documented food or nutrition practical experience prior to the completion of their final semester at TCU. Students who do not meet the requirements for DPD verification, but complete the requirements of the MS in NUTR, will graduate with the MS in NUTR without DPD verification.

Prerequisites (Nutrition and Associate Requirements)

Bachelor's Degree *plus*:

Nutrition
 Nutrition throughout Life Cycle
 Medical Terminology
 Human Behavior, Psychology, Sociology, OR Anthropology
 General Chemistry I
 General Chemistry II Lecture and Lab
 Organic Chemistry
 Physiology
 Microbiology

Post Bac

Fall Semester	Spring Semester
NTDT 30144 Quality Foods 4	NTDT 30313 Food Systems Management 3
NTDT 40343 Nutritional Biochemistry 3	NTDT 30333 Medical Nutrition Therapy I 3
NTDT 40333 Medical Nutrition Therapy II 3	NTDT 40403 Research Methods in Nutrition 3
NTDT 30233 Essentials in Dietetics 3	NTDT 50363 Community Nutrition* 3

*Counts towards Master's

Graduate First Year (Courses are listed by number, title and credit hour for each semester)

Fall Semester

NTDT 50973	Nutritional Sciences Seminar	3
NTDT 60443	Integrative Functional Nutrition and Nutritional Genomics	3
NTDT 60453	Nutrition Ecology, Food, and Sustainability	3

Spring Semester

NTDT 50343	Biochemical, Physiological, and Molecular Aspects of Human Nutrition	3
	Electives	3
	Electives	3

Graduate Second Year (Courses listed by number, title, and credit hour for each semester)

NTDT 60101	DPD Graduate Seminar	1
NTDT 70980	Thesis	1-6
NTDT 50223	Culinary Medicine Seminar	3
NTDT 70990	Thesis	1-6

Nutrition Graduate Course Options

NTDT 60973	Nutritional Sciences Graduate Seminar	3
NTDT 50323	Gut Microbiota and Health	3

Non-Nutrition Graduate Course Options

CHDV 50433	Trauma & Relationships	3
CHDV 50533	Case Studies in Child Development	3
COSD 50323	Interaction Skills for Health Professionals	3
EDUC 50003	Diversity in American Education	3
EDUC 60043	Action Research	3
EDGU 60383	Counseling Theories and Techniques	3
EDGU 60133	Addictions Counseling	3
EDGU 60323	Assessment in Counseling	3
INSC 72470	Healthcare Improvement Science	1.5
SOWO 61823	Diversity and Social Justice	3
SOWO 61843	Human Behavior and the Social Environment 1	3
SOWO 61853	Human Behavior and the Social Environment 2	3
MANA 72410	Health Care in the U.S.	1.5
MANA 72423	U.S. Health Care Policy	3
MANA 72480	Challenges in Healthcare Leadership	1.5

ACCT 60010 Financial Reporting 1.5

*Students can take up to 15 hours of 50000 level credit towards the MS degree.

Nutrition MS, without DPD Verification

Requirements

Program of Study

The Master of Science program in Nutritional Sciences provides students with a course of study in advanced nutrition topics related to disease prevention and management, health optimization, and food and nutrition sustainability. The program prepares graduates for positions in advanced clinical, community, and management careers as well as careers in various industry settings. Students are able to tailor the degree with additional course options within, and outside of, Nutritional Sciences. This degree requires a minimum of 30 semester hours, including six hours of thesis, beyond a Bachelor's degree. Students must have a 3.0 GPA in prerequisite courses consisting of: General Chemistry I, General Chemistry II with lab, Organic Chemistry, Physiology with lab, and Nutrition. No GRE is required.

Students also have the option to pursue post-baccalaureate Didactic Program in Dietetics (DPD) verification with the MS in NUTR. The MS NUTR DPD track is specifically designed for students who hold a Bachelor's degree in a related or unrelated field, and want to pursue Accreditation Council for Education in Nutrition and Dietetics (ACEND) accredited supervised practice upon program completion, in order to become a Registered Dietitian/Nutritionist (RD/RDN).

The MS NUTR with DPD verification track requires a minimum of 22 hours of undergraduate credit of TCU NTDT courses (NTDT 30313 Food Systems Management, NTDT 30144 Quantity Food Production, 30233 Essentials in Dietetics Practice, NTDT 30333 Medical Nutrition Therapy I, NTDT 40343 Nutritional Biochemistry, NTDT 40333 Medical Nutrition Therapy II, NTDT 40403 Research Methods in Nutrition) as leveling courses, and a minimum of 30 semester hours of graduate credit, including six hours of thesis, beyond a Bachelor of Science degree. In addition to prerequisite courses required for the MS NUTR (General Chemistry I, General Chemistry II with lab, Organic Chemistry, Physiology with lab, and Nutrition) students must also complete additional prerequisite courses of Nutrition Throughout the Lifecycle, Medical Terminology, Microbiology, and either Human Behavior, Psychology, Sociology or Anthropology. Students must apply to, and be accepted into, the TCU DPD. Eligibility for admission to the DPD MS NUTR track is based on completion of prerequisite courses with a cumulative GPA of at least 3.0 for Nutrition (NTDT) classes; and an Associated Requirements GPA of at least 2.75, no more than 3 grades below a "B-" in the Associated Requirements, 200 hours of documented food or nutrition practical experience and an application packet. Students accepted to the DPD must apply to the MS in NUTR to receive conditional acceptance until they begin graduate coursework before they begin courses at TCU to pursue DPD verification or the MS in NUTR. A student's continuation in the DPD is contingent upon attainment of successful completion of the required courses. To earn DPD verification, the student must attain a minimum Nutrition (NTDT) GPA of 3.0, earn a "C-" or better in all NTDT and Associated Requirement courses, a maximum of three grades below a "B-" in the Associated Requirements, and complete 500 hours of documented food or nutrition practical experience prior to the completion of their final semester at TCU. Students who do not meet the requirements for DPD verification, but complete the requirements of the MS in NUTR, will graduate with the MS in NUTR without DPD verification.

Graduate First Year (Courses are listed by number, title, and credit hour for each semester)

NTDT 50973	Nutritional Sciences Seminar	3
NTDT 60443	Integrative Functional Nutrition and Nutritional Genomics	3
NTDT 60453	Nutrition Ecology, Food, and Sustainability	3
NTDT 50343	Biochemical, Physiological, and Molecular Aspects of Human Nutrition	3
	Electives	3

Graduate Second Year (Courses listed by number, title, and credit hour for each semester)

NTDT 70980	Thesis	1-6
	Electives	3
NTDT 70990	Thesis	1-6
	Electives	3

Elective Course Options

NTDT 60973	Nutritional Sciences Graduate Seminar	3
NTDT 50323	Gut Microbiota and Health	3
NTDT 50363	Community Nutrition and Public Health	3

Non-Nutrition Graduate Course Options

CHDV 50433	Trauma & Relationships	3
CHDV 50533	Case Studies in Child Development	3
COSD 50323	Interaction Skills for Health Professionals	3
EDUC 50003	Diversity in American Education	3
EDUC 60043	Action Research	3
EDGU 60383	Counseling Theories and Techniques	3
EDGU 60133	Addictions Counseling	3
EDGU 60323	Assessment in Counseling	3
INSC 72470	Healthcare Improvement Science	1.5
SOWO 61823	Diversity and Social Justice	3
SOWO 61843	Human Behavior and the Social Environment 1	3
SOWO 61853	Human Behavior and the Social Environment 2	3
MANA 72410	Health Care in the U.S.	1.5
MANA 72423	U.S. Health Care Policy	3
MANA 72480	Challenges in Healthcare Leadership	1.5
ACCT 60010	Financial Reporting	1.5

*Students can take up to 15 hours of 50000 level credit towards the MS degree.

Physics & Astronomy

Students may pursue the Master of Arts, Master of Science and Doctor of Philosophy in Physics.

Prerequisites for the MA, MS or Ph.D. Degrees: BA or BS in Physics, or 24-semester-hour equivalent, including intermediate or advanced undergraduate courses in mechanics, electricity and magnetism, atomic and nuclear or modern physics or their equivalents. Twelve semester hours must be of junior or senior level. Required are mathematics through differential equations and a course in general chemistry.

Students deficient in any area of preparation may be required to take the necessary coursework during the first year of graduate study. The GRE is not required and is not considered in admission, unless specifically requested. GRE scores may be requested to be part of a holistic review of each application, but official documents are required if scores are submitted for inclusion with the application.

Teaching Requirement

As part of their professional training, full-time graduate students in physics are required to participate in the undergraduate teaching function of the department. This requirement is met by assisting in undergraduate labs, giving laboratory instructions, grading papers, conducting problem sessions or offering tutorial help. The assignment varies depending on the interest and experience of the student, and the degree of involvement in thesis or dissertation research. It usually amounts to 10 hours per week or less.

Physics, MA**Requirements**

The Master of Arts in Physics requires 30 approved semester hours of graduate courses with a minimum of 18 semester hours in physics and knowledge of one foreign language. A thesis and a minor are optional. An oral exam over coursework and thesis, if any, is required.

Physics, MS**Requirements**

The Master of Science in Physics requires 30 approved semester hours with a thesis or 36 semester hours without a thesis.

Course requirements for the degree:

PHYS 60303	Quantum Mechanics	3
PHYS 60403	Electrodynamics	3

Plus 3 courses from

PHYS 60313	Quantum Mechanics	3
PHYS 60203	Classical Mechanics	3
PHYS 60413	Electrodynamics	3
PHYS 60503	Solid State Physics	3
PHYS 60603	Statistical Physics	3
PHYS 60743	Galactic & Extragalactic Astrophysics	3
PHYS 60803	Nonlinear Dynamics with Applications	3
PHYS 60823	Optical Spectroscopy and Fluorescence	3
PHYS	Electives	9
	Thesis Option:	
PHYS 70980	Thesis (3 hours)	3
PHYS 70990	Thesis (3 hours)	3
	Non Thesis Option:	
PHYS	Electives	12

There is no foreign language requirement. An oral exam over coursework and thesis, if any, is required.

Physics, Ph.D.**Requirements****Completion of the following courses with a GPA of 2.75 or better:**

PHYS 60003	Methods of Advanced Physics	3
PHYS 60303	Quantum Mechanics	3
PHYS 60313	Quantum Mechanics	3
PHYS 60323	Advanced Analysis & Modeling	3

Plus 4 courses from the following:

PHYS 60203	Classical Mechanics	3
PHYS 60403	Electrodynamics	3
PHYS 60413	Electrodynamics	3
PHYS 60503	Solid State Physics	3
PHYS 60603	Statistical Physics	3
	AND	
PHYS 60970	Research Problems (9 hours)	9

PHYS 90980	Dissertation (6 hours)	6
PHYS 90990	Dissertation (6 hours)	6

A minimum of 9 hours of PHYS 60970 Research Problems must be completed with an average grade of 2.75 or better.

Additional coursework may be required to ensure adequate preparation for the specified courses. Each full-time student is required to participate in departmental seminars, formally report yearly on their progress and present in a public forum at least once each academic year.

The course requirements for any course other than PHYS 60970 Research Problems may also be met by satisfactory performance on a written examination administered by the faculty over the subject matter of that course or by transfer of credit in an equivalent course from another institution.

Students are required to have completed an MA or MS degree in physics or astronomy as a requirement for the Ph.D.

There is no language requirement for the Ph.D. in Physics.

Advancement to Ph.D. Candidacy

The advancement to Ph.D. candidacy consists of completion of course work and the passing of two major exams:

1. Physics Evaluation Examination: The physics evaluation exam will be given each semester as needed. Incoming students will take a single four-hour written exam covering topics expected from a standard undergraduate physics degree. Students must pass the exam to be eligible to continue on to their second year of graduate study. Incoming students who fail the exam are allowed to retake the exam once at the beginning of the semester following the semester they entered the program. Students who do not pass the exam will be dismissed at the completion of their second semester.
2. Dissertation Proposal Exam: The dissertation proposal exam will be taken in the spring semester of the second year and is comprised of:
 - a. A written proposal for the dissertation research, including a description of any research already completed, must be submitted to the graduate faculty of the department at least two weeks prior to the oral exam (c.). Details on the required format for the report are available from the department.
 - b. An oral presentation of the dissertation proposal to the department faculty on the subject of the written report.
 - c. A comprehensive oral exam administered by the graduate faculty of the department to assess a student's readiness to carry out the dissertation research. If the graduate faculty of the department attach a condition to passing the dissertation proposal exam, (e.g. revision of the predissertation report or submission of additional material), the additional work must be completed by no later than the beginning of the semester following the presentation. The removal of the condition is subject to the approval of the graduate faculty. Students who do not pass the examination are encouraged to complete the requirements for a terminal master's degree if they have not already done so.

The results of the competency exam, course work, the dissertation proposal, and other indications of research potential will all be considered by the departmental graduate faculty. Advancement to Ph.D. candidacy will be approved by a completion of the above requirements and a majority vote of the department graduate faculty.

Dissertation

Completion of a dissertation consisting of an original research project directed by a faculty member at TCU. 6 hours of PHYS 90980 Dissertation and six hours of PHYS 90990 Dissertation are required. A final oral exam in defense of the dissertation is required and at least one paper based on the dissertation research must be accepted for publication in an appropriate scientific journal.

Physics/Astrophysics Option, (Ph.D.)

Requirements

Completion of the following courses with a GPA of 2.75 or better:

PHYS 50743	Stellar Astrophysics	3
PHYS 50773	Cosmology	3
PHYS 60003	Methods of Advanced Physics	3
PHYS 60303	Quantum Mechanics	3
PHYS 60323	Advanced Analysis & Modeling	3
PHYS 60403	Electrodynamics	3
PHYS 60743	Galactic & Extragalactic Astrophysics	3
PHYS 60753	Gaseous Astrophysics	3

Plus 2 courses from the following:

PHYS 60203	Classical Mechanics	3
PHYS 60313	Quantum Mechanics	3
PHYS 60413	Electrodynamics	3
PHYS 60603	Statistical Physics	3
	AND	
PHYS 60970	Research Problems (9 hours)	9
PHYS 90980	Dissertation (6 hours)	6
PHYS 90990	Dissertation (6 hours)	6

A minimum of nine hours of PHYS 60970 Research Problems must be completed with an average grade of 2.75 or better.

Except for the courses specified above, the remaining regulations concerning coursework, predissertation qualifying exam and dissertation are the same as those prescribed above for the Ph.D. in Physics.

Physics/Biophysics Option, (Ph.D.)

Requirements

Completion of the following courses with a GPA of 2.75 or better:

PHYS 60003	Methods of Advanced Physics	3
PHYS 60303	Quantum Mechanics	3
PHYS 60313	Quantum Mechanics	3
PHYS 60323	Advanced Analysis & Modeling	3

Plus 4 courses from the following:

PHYS 60803	Nonlinear Dynamics with Applications	3
PHYS 60823	Optical Spectroscopy and Fluorescence	3
PHYS 60403	Electrodynamics	3
PHYS 60413	Electrodynamics	3
PHYS 60603	Statistical Physics	3
	AND	
PHYS 60970	Research Problems (9 hours)	9
PHYS 90980	Dissertation (6 hours)	6
PHYS 90990	Dissertation (6 hours)	6

A minimum of 9 hours of PHYS 60970 Research Problems in Biophysics must be completed with an average grade of 2.75 or better. Students in the biophysics option may also be required to take one or more additional courses from: PHYS 50753 Topics in Biophysics, PHYS 50763 Experimental Methods in Biochemistry and Biophysics, or PHYS 70753

Advanced Topics in Biophysics to ensure an adequate background for their dissertation research.

Except for the courses specified above, the remaining regulations concerning coursework, pre-dissertation qualifying exam and dissertation are the same as those prescribed above for the Ph.D. in Physics.

Physics/Business Option, (Ph.D.)

Requirements

The Ph.D. in Physics is also available with a business option. Students entering the Ph.D. program with a BS are normally expected to complete the Ph.D. requirements within five years. At the end of the fourth year of graduate studies, a candidate for the Ph.D. in Physics who has demonstrated sufficient progress in research (dissertation), may submit a written request to the Department of Physics & Astronomy for admission to this program. Providing there is a clear indication that the student can reasonably be expected to complete all the requirements for the Ph.D. within five years, permission will be granted to apply to the director of admissions of the MBA Program of the Neeley School of Business. During the fifth year, the student is expected to continue with the dissertation on a reduced scale, and, if on departmental assistantship, to perform designated departmental teaching duties. Students entering the Ph.D. program with advanced standing (MS degree or more) can request an accelerated program.

In addition to the course-work, qualifying examinations and dissertation requirements specified for the Ph.D. degree in Physics, the student will satisfy the following conditions specified by the Neeley School of Business:

1. Students electing to take the business option will take the 18 hours of MBA coursework over the course of two consecutive semesters (entering in the fall and finishing in the spring semesters).
2. Students are required to attend the START Workshop conducted by the Neeley School that occurs just before the start of the fall semester. Students are assessed a fee for the workshop.
3. The Neeley School will accept the results of the GRE.
4. The director of admissions has sole authority to admit physics Ph.D. candidates to the MBA program (whether they seek the MBA degree or the option).
5. Under the assumption that the students come to the program with a good background in statistics, they would take the following courses (course list subject to change):

Fall Semester (15 hours)

ACCT 60010	Financial Reporting	1.5
FINA 60010	Financial Management I	1.5
MARK 60010	Marketing Management	1.5
INSC 60060	Decision Models	1.5
MANA 60330	Engaging People	1.5
BUSI 60050	Global Environment of Business	1.5
INSC 60020	Managing Operations and Processes	1.5
MANA 60340	Leading Teams and Orgs	1.5
BUSI 60070	Business Simulation	1.5

Plus 1 course from the following

FINA 70010	Financial Management II	1.5
MARK 70010	Marketing issues and Problems	1.5
INSC 70600	Supply Chain Analytics	1.5

Spring Semester (3 hours)

ACCT 60020	Accounting for Managerial Planning and Control	1.5
FINA 60020	Managerial Economics	1.5

1. The foregoing may be adjusted in the event of realignment in the sequence of courses in the MBA program.

2. Students who wish to continue their studies in the program after their first year of business courses and pursue the MBA degree
 - a. Will be permitted, with approval of the director of the MBA program, to transfer in for credit hours of 60000- or 70000- level graduate physics coursework. Transfer will be approved for a graduate-level course that is equivalent to DESC Statistics and other 60000- or 70000-level coursework taken in the Department of Physics and Astronomy
 - b. Will be required to complete such additional coursework as required of other MBA students and as is provided in the applicable *TCU Graduate Studies Catalog*. The student will work closely with the academic program director to plan his/her schedule.

Prospective candidates for the Ph.D. in Physics or the Ph.D. with Business Option should be advised that the maximum term of fellowship or assistantship support through the Department of Physics & Astronomy is five years, and support for MBA courses from the TCU Department of Physics and Astronomy fellowships or assistantship is limited to 18 hours. Financial support for additional hours required for completion of the MBA degree would be the student's responsibility; students would be eligible to apply for financial aid for the second year of MBA study from the Neeley School of Business.

Psychology

Students may pursue the Master of Arts, Master of Science and Doctor of Philosophy in Experimental Psychology, and a Master of Science in Developmental Trauma. A minor in Quantitative Psychology is also available. Students who want only a master's degree in psychology and do not plan to complete the doctoral program at TCU are not typically accepted into the Experimental Psychology program.

Prerequisites for the MA and MS Degrees in Experimental Psychology: BA or BS in Psychology or a 24-hour equivalent.

Prerequisites for the MS Degree in Developmental Trauma: The Developmental Trauma program is designed for students with background in psychology, child development or a related field.

Prerequisites for the Ph.D. Degree in Experimental Psychology: BA or BS in Psychology or a 24-hour equivalent.

Students with majors in other disciplines will be considered upon request, but may be required to make up any deficiencies in their undergraduate preparations.

National Honor Society

The Department of Psychology sponsors the TCU chapter of Psi Chi, national honorary society for psychology.

Psychology, MA

Non-Thesis Requirements

This degree is available only to students who are enrolled in the PhD program in Experimental Psychology. The Master of Arts in Psychology (i.e. non-thesis option) requires 36 hours of graduate coursework, including:

At least one of the following:

PSYC 50213	Interactive Data Analysis	3
PSYC 50523	Analysis of Variance	3
PSYC 60623	Regression Analysis	3
	Approved Electives	33

A grade less than a "B-" is considered failing within the department and can result in two consequences. First, the course will not count toward the MA degree and may be required to be repeated. Second, the failing grade may result in dismissal from the graduate program. If a student makes two grades of less than a "B-" in either the same or two different courses, the student may automatically be dismissed from the program. The department will also recommend that financial support be withdrawn, if applicable. Thesis hours (PSYC 70980 and PSYC 70990) cannot count toward the MA degree.

Psychology, MS

Requirements

This degree is available only to students who are enrolled in the PhD program in Experimental Psychology. The Master of Science in Psychology requires at least 30 semester hours including a thesis.

Students must pass (with a grade of "B-" or higher) six core courses from the following:

1) Neuroscience/Learning

PSYC 60553	Conditioning and Learning	3
PSYC 50403	Advanced Neuroscience	3

2) Social/Evolutionary

PSYC 60663	Advanced Social Psychology	3
PSYC 60913	Evolutionary Social Psychology	3

3) Cognitive/Development

PSYC 50563	Theories of Development	3
PSYC 60583	Cognition	3

4) Quantitative

PSYC 50523	Analysis of Variance	3
PSYC 60623	Regression Analysis	3
	AND	
PSYC 70980	Thesis (3 hours)	3
PSYC 70990	Thesis (3 hours)	3
PSYC	Approved Electives	6

Minimum Requirements:

*Students must take at least one course from each of 1, 2, and 3.

*Students must take at least one additional course from 1, 2, or 3.

*Students must take both courses in 4.

A grade less than a B- is considered failing within the department and can result in two consequences. First, the course will not count toward the MS degree and may be required to be repeated. Second, the failing grade may result in dismissal from the graduate program. If a student makes two grades of less than a B-, in either the same or two different courses, the student may automatically be dismissed from the program. The department will also recommend that financial support be withdrawn, if applicable.

Developmental Trauma, MS

Requirements

The Master of Science in Developmental Trauma is designed to educate students about the scientific and applied aspects of complex developmental trauma. The goal is to prepare students for advanced academic study and/or professional practice. Students take a set of core courses in developmental trauma and are expected to choose elective courses to build expertise relevant to their career goals.

The Master of Science in Developmental Trauma program consists of 30 hours of graduate coursework. In accordance with University Policy, a GPA of at least 2.75 must be maintained with no more than two passing grades of "C+" or lower being utilized in satisfying the degree requirement.

Required Courses (18 hours)

PSYC 50433	Trauma & Relationships	3
PSYC 50443	Trauma & Behavior	3
PSYC 50403	Advanced Neuroscience	3
PSYC 50563	Theories of Development	3
PSYC 60903	Developmental Trauma Capstone Course	3

PSYC 50213	Interactive Data Analysis	3
	or	
PSYC 50523	Analysis of Variance	3
	or	
PSYC 60623	Regression Analysis	3
	Approved Electives	12

12 hours of electives selected in consultation with adviser.

Graduate Quantitative Psychology Minor

The minor in quantitative psychology provides graduate students advanced training in the application of psychometric, methodological and state-of-the-art statistical procedures. It equips graduate students with quantitative methods that will improve the quality of research in their substantive areas while providing the statistical credentials that facilitate favorable placements in academic and non-academic positions upon graduation. The Graduate Quantitative Psychology minor (GQPM) is only open to graduate students in the department of psychology. Students in pursuit of the minor are required to complete two core and three elective courses with a grade of "B-" or higher.

Requirements

Required Courses (6 semester hours)

PSYC 50523	Analysis of Variance	3
PSYC 60623	Regression Analysis	3

Electives (9 hours)

PSYC 50213	Interactive Data Analysis	3
PSYC 60633	Generalized Linear Models	3
PSYC 60643	Structural Equation Models	3
PSYC 60653	Multilevel/Hierarchical Models	3
PSYC 60673	Advanced Structural Equation Modeling	3
PSYC 60743	Longitudinal Data Analysis	3

Admission Requirements

A psychology graduate student seeking a masters or doctoral degree may declare the GQPM. For students who have taken comparable courses elsewhere, the minor requirements can be modified at the discretion of the psychology faculty.

The courses required for the GQPM are intended to supplement, rather than compete with, students' training in substantive areas of research. Therefore, the GQPM requires only 15 credits of statistics coursework. 6 credits are earned by successful completion of the two required courses in the quantitative psychology sequence (PSYC 50523/60623), which graduate students in the Department of Psychology usually complete within the initial two years in the program. Students must successfully complete three additional courses (9 credits) beyond the two required for the graduate program, which may also count as departmental electives.

Graduation Requirements

Completion of the GQPM requires a minimum of 15 credit hours with no grade below a "B-". A course with a grade below a "B-" can be retaken only once. If a student makes two grades of less than "B-", either in the same or two different courses, the student will be automatically dismissed from pursuing the minor.

Psychology, Ph.D.

Requirements

The program leading to the Ph.D. in experimental psychology has a research emphasis, along with training students to be effective science communicators and teachers. Students should have met all of the pre-requisites for the program, including successfully defending a master's thesis under the direction of a psychology faculty member at TCU.

Students who enter the Ph.D. program having completed a thesis-based master's degree at an accredited institution can request, on first entering the program, that the graduate faculty design a course sequence tailored to their individual needs, which might include different courses than those listed below.

Students must pass (with a grade of "B-" or higher) six core courses from the following options

1) Neuroscience/Learning

PSYC 60553	Conditioning and Learning	3
PSYC 50403	Advanced Neuroscience	3

2) Social/Evolutionary

PSYC 60663	Advanced Social Psychology	3
PSYC 60913	Evolutionary Social Psychology	3

3) Cognitive/Development

PSYC 50563	Theories of Development	3
PSYC 60583	Cognition	3

4) Quantitative

PSYC 50523	Analysis of Variance	3
PSYC 60623	Regression Analysis	3
	AND	
PSYC 90980	Dissertation	6
PSYC 90990	Dissertation	6

Minimum Requirements:

*Students must take at least one course from each of 1, 2, and 3.

*Students must take at least one additional course from 1, 2, or 3.

*Students must take both courses in 4.

*A grade of less than B- in one course from 1, 2, or 3 may be replaced by at least a B- from either the same course or the alternative course in the corresponding area.

A grade less than a B- is considered failing within the department and can result in two consequences. First, the course will not count toward the Ph.D. degree and may be required to be repeated. Second, the failing grade may result in dismissal from the graduate program. If a student makes two grades of less than B-, in either the same or two different courses, the student may automatically be dismissed from the program. The department will also recommend that financial support be withdrawn, if applicable.

Successful completion of the Ph.D. requires completing the course requirements, successfully defending a master's thesis if required by the faculty, passing the preliminary evaluation vote by the full faculty, passing a qualifying examination that has both written and oral components in order to advance to doctoral candidacy, and defending a Ph.D. dissertation.

The usual timeline involves completing the six core courses as described above by the end of the second year; completing the master's thesis, when required, by the end of the second year; passing the preliminary evaluation vote by the end of the third year; passing the qualifying examination to advance to doctoral candidacy by the start of the fourth year, and successfully defending the Ph.D. dissertation within six years after advancing to doctoral candidacy.

Graduate Certificate Program

Ranch Management Graduate Certificate

The Graduate Certificate in Ranch Management is designed to offer graduate-level education in ranch management. The curriculum addresses the needs of the modern-day ranching business through an interdisciplinary program with an emphasis on beef cattle production and resource management. Five weeklong field trips combine classroom teaching with hands-on exposure.

Application Procedure

An applicant must possess a bachelor's degree from an accredited four-year institution. Further, the student must have a minimum 3.0 GPA on a 4.0 scale at the bachelor's level. The GRE is not required. Any submitted GRE score is part of a holistic review of each application.

Applicants meeting academic enrollment criteria should have sufficient working experience in agriculture to understand the nature of the industry. Selection to the program is made after each applicant completes the application, including transcripts and a professional interview. Applications for admission are available through the Ranch Management Program.

Graduate Certificate Requirements

The Graduate Certificate in Ranch Management requires successful completion of 35 credit hours made up of graduate and undergraduate credit. Each of the four graduate credit courses incorporates a graduate-level project into the curriculum.

Graduate Credit (12 hours):

RAMA 50503	Range Management	3
RAMA 50603	Ranch Records and Finance	3
RAMA 50213	Ranch Business Management	3
RAMA 50803	Marketing of Livestock and Meats	3

Undergraduate Credit (23 hours):

RAMA 30102	Ranch Operations and Development	2
RAMA 30403	Soil and Water Conservation	3
RAMA 40103	Beef Cattle Production	3
RAMA 40303	Animal Health Management	3
RAMA 30703	Animal Nutrition and Feeding	3
RAMA 40112	Sheep and Goat Production	2
RAMA 40313	Animal Health and Reproduction	3
RAMA 40903	Forage Production and Use	3
RAMA 40101	Management Plan Capstone Course	1

Note: The student must complete RAMA 50503, RAMA 50603, RAMA 50803 and RAMA 50213 as graduate-level courses to be awarded the graduate certificate. *RAMA 40101 Management Plan Capstone Course must be successfully completed with the grade of C or better, with an overall minimum GPA of 2.75, and no more than 2 grades of C+ or lower may be utilized in satisfying the certificate requirement, in order to receive the Graduate Certificate in Ranch Management. No RAMA courses may be repeated.

Students must declare their intention to pursue the graduate certificate program prior to their enrollment in any ranch management course.

Pass/No Credit

Courses for the graduate certificate may not be taken on a pass/no credit basis.

For more information on the Graduate Certificate in Ranch Management contact the Ranch Management Program office at 817.257.7145 or by email at ranching@tcu.edu.

Directory Information

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Brianna Edwards, M.Ed.—Accreditation Coordinator

Athletics

Administration

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Mike Sinquefield, B.G.S.—Deputy Athletics Director for Internal Affairs

Gretchen Bouton, B.S., M.S.—Sr. Associate Athletics Director of Student Services

Kenneth Janak—Sr. Associate Athletics Director/Athletics Financial Officer

Kimberly N. Johnson, B.S., M.A., M.S.—Sr. Associate Athletics Director/Senior Woman Administrator

Monica Ray-Goth—Executive Assistant to the Athletics Director

Yesi Madrigal—Administrative Assistant

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Shawn Worthen, B.B.A., M.Ed.—Associate Athletics Director of Academic Services

Clifford Harrell—Assistant Athletics Director of Academic Services

Dr. Ashlesha Lokhande—Graduate Assistant

Kevin Mendez—Academic Advisor

Ashleigh Smith—Academic Advisor

Amy Adams—Learning Specialist

Aracely DeRose—Learning Specialist

Megan Klavitter —Graduate Assistant

Kelli Thomas—Graduate Assistant

Sarah Liles—Administrative Assistant

Maria Willars—Office Assistant

Broadcasting

Brian Estridge—Director of Broadcasting

Business Office

Kenneth Janak—Sr. Associate Athletics Director/Officer

Bennett Askew—Associate Athletics Director/Business and Finance

Jeanette Bradley— Business Manager

Taylor Patterson—Graduate Assistant

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Steven Schoon, B.S.—Director of Athletics Communications

Dameon Myres, B.S.—Assistant Director of Athletics Communications

Brandie Davidson, B.S., M.A.—Assistant Director of Athletics Communications

Anthony Brandt, B.J.—Assistant Director of Athletics Communications

Danielle Pluchinsky—Graduate Assistant

Compliance

Ike Ukaegbu—Senior Associate Athletics Director for Compliance

Brent Cunningham, B.S., M.S.—Assistant Athletics Director for Compliance

Erin Brown—Director of Compliance

Taryn Beverly—Compliance Coordinator

Megan Munce—Compliance Coordinator

Sailor Sinclair—Graduate Assistant

Facilities

Sassan Sahba—Associate Athletics Director for Facilities

Annie Gallick—Game Day Operations Coordinator

Winn Walker—Game Day Operations Coordinator

Blake Reynolds—Facilities Operations Coordinator

Reagan Schaefer—Graduate Assistant

Craig Michie—Graduate Assistant

Brandon Sturgeon—Graduate Assistant

Frog Club

Jennifer Colley—Associate Athletics Director—Frog Club

Michael Levy—Associate Athletics Director—Development

Cam Fenton—Assistant Director of Development

Julie Phipps—Coordinator—Frog Club Services

Lettermens' Association

John Denton—Associate Athletics Director—Alumni Relations/Executive Director—Lettermen's Association

Horned Frogs Hospitality

Amy Blout—Director

Allison Paxson—Assistant Director

Marketing

Julie Austin, B.A., M.Ed.—Associate Athletics Director for Marketing and Licensing

Rory Rutledge, B.A., M.A.—Director of Athletics Marketing

Jackie Proctor, B.S., M.Ed.—Assistant Director of Athletics Marketing

Quintin Payton—Assistant Director of Athletics Marketing

Deanna Cardillo—Director of Branding and Licensing

Blake Morris—Graduate Assistant

Cameron Zavaski—Graduate Assistant

Digital Brand Strategy

Kyle Seay, B.S, M.L.A—Associate Athletics Director for Digital Brand Strategy

Drew Dennison—Director of Athletics Video Production

Clayton Regian—Associate Director of Athletics Video Production

Leigh Ann Kight—Assistant Director of Athletics Video Production

Luke Kohli—Assistant Director of Athletics Video Production

Katie Sheets—Assistant Director of Athletics Video Production

Eichel Davis—IMG Social Media Content Strategist

Equipment Room

Brian Coutras, B.S.—Assistant Athletics Director for Equipment

Victor Ignatiev, B.A., M.A.—Assistant Equipment Manager

Justin Shaw—Equipment Coordinator

Ana Auger-Crossman—Equipment Coordinator

Cooper Sholder—Equipment Coordinator

Aden Kosacz—Graduate Assistant

Brady Archer—Graduate Assistant

Spirit

Lindsay Shoulders, B.A.—Spirit Director/Showgirls Coach

Elizabeth Peterson—Cheer Coach

Logan Lefler—Assistant Cheer Coach

Emma Beavers—Spirit Assistant

Jason Lesikare—TCU Rangers Coordinator

Sports Medicine

David Gable, B.S., M.S.—Associate Athletics Director for Sports Medicine

Miranda Jensen—Athletic Trainer (Indoor and Beach Volleyball)

Matt Herrill—Associate Director of Sports Medicine

Maxx Akel—Assistant Athletic Trainer

Patricia Jamison, B.S., M.L.A.—Assistant Athletics Trainer

Ryan Rodems—Assistant Athletic Trainer

Bronson Sagon—Assistant Athletic Trainer

Alissa Schenk—Athletic Trainer

Danny Wheat, B.S.—Assistant Athletic Trainer

Kearston McGinnis—Graduate Assistant

Raegan Ledbetter—Graduate Assistant

Erin Simmerman—Graduate Assistant

Claudette Cole—Insurance Coordinator

Sports Nutrition

Brooke Helms—Assistant Athletics Director for Sports Nutrition

Hollin Ford—Fueling Station Manager

Sarah Kim—Fueling Station Manager

Victoria Ip—Graduate Assistant

Victoria Dahan—Graduate Assistant

Strength and Conditioning

Don Sommer, B.S., M.S., M.S.C.C.—Assistant Athletics Director for Strength and Conditioning

Stephen Gephardt, B.S., M.Ed.—Associate Head Strength and Conditioning Coach

Matt Parker, B.S.—Associate Head Strength and Conditioning Coach

Andrew Mitchell—Associate Head Strength and Conditioning Coach

Zachariah Dechant, B.S.—Sr. Assistant Strength and Conditioning Coach

Todd Kensler, B.S.—Sr. Assistant Strength and Conditioning Coach

Taylor Larson—Sr. Assistant Strength and Conditioning Coach

Michael Wood—Sr. Assistant Strength and Conditioning Coach

Malorie Henderlong—Graduate Assistant

Logan Uyetake—Graduate Assistant

Student Athlete Development

Jessica Hazard—Associate Athletics Director for Student Athlete Development

La'Ron Haywood—Graduate Assistant

David Swillum—Graduate Assistant

Makena Martin—Graduate Assistant

Tennis Center

Craig Smith—Director of Bayard H. Friedman Tennis/Tennis Professional

Elaine Martinez—Administrative Assistant

Jaron Householder—Horticultural Assistant

Ticket Office

Sean Conner, B.S. —Associate Athletics Director for Ticket Operations

Dan Riester—Director of Ticket Gift and Analytics

Savannah Rutledge—Graduate Assistant

IMG Learfield TCU Ticketing Solutions

Alex Butier—General Manager

Shelby Robinson—Account Executive

Montel Gardner—Account Executive

Eric Koenemann—Data Analyst

Horned Frog Sports Properties

Jay Fields, B.A., J.D.—Assistant Vice President/General Manager of TCU IMG Sports Marketing

Ian McGarry—Senior Manager - Business Development

Joseph Swanner—Senior Manager - Business Development

Conner Ash—Manager - Business Development

Greta Conger—Account Executive

Chelsey Morrow—Partner Services Coordinator

Eichel Davis—Social Media Content Strategist

Baseball

Kirk Saarloos, B.A.—Head Coach

Bil Mosiello, B.A.—Associate Head Coach

Meredith Montgomery—Director of Baseball Operations

Kevin Knight—Video Coordinator

John DiLaura—Volunteer Assistant

Basketball (Men's)

Jamie Dixon—Head Coach

Tony Bedford—Assistant Head Coach

Duane Broussard—Assistant Coach

Thomas Montigel—Director of Operations

Corey Santee—Player Development Coordinator

Billie Webster—Graduate Assistant

Colin Voss—Graduate Assistant

Michael Rice—Graduate Assistant

Kendra Coleman—Coordinator of Office Services

Basketball (Women's)

Raegan Pebley, B.S.—Head Coach

Hanna Howard, B.S.—Associate Head Coach
 Brittany Brown—Assistant Coach
 Abi Olajuwon—Assistant Coach
 Leah Foster—Player Development Coordinator
 Angela Gonzaga, B.S., M.A.—Director of Basketball Operations
 Adeola Akomolafe—Graduate Assistant
 Kianna Ray—Graduate Assistant
 Jodi Christian—Coordinator of Office Services

Equestrian

Haley Schoolfield—Director of Equestrian
 Melissa Dukes—Head Western Coach
 Logan Fiorentino—Head Hunt Seat Coach
 Hannah Gillmore—Graduate Assistant
 Jessica Hill—Administrative Assistant

Football

Gary Patterson, B.A., M.A.—Head Coach
 Doug Meacham—Inside Receivers Coach/Offensive Coordinator
 Chad Glasgow—Defensive Coordinator
 Bryan Applewhite—Running Backs Coach
 Jarrett Anderson, B.A., M.L.A.—Inside Receivers Coach/Offensive Line Coach
 Zarnell Fitch, B.A., M.L.A.—Defensive Line Coach
 Paul Gonzales, B.A, M.L.A.—Safeties Coach
 Malcolm Kelly—Outside Receivers Coach
 Jeremy Modkins, B.A., M.L.A.—Cornerbacks Coach
 Dan Sharp, B.A., M.L.A.—Defensive Line Coach
 Jerry Kill— Special Assistant to the Coach
 Demontie Cross—Director of Player Personnel
 Kenny Hill—Quarterbacks Coach
 Brian Hernandez—Defensive Analyst
 Adam McGuire—Football Analyst
 Matt Lewis, B.A.—Assistant Athletics Director for Football Operations
 Brent Lemoine—Director of High School Relations
 Rachel Phillips—Director of Recruiting Operations
 Tim Allmon—Assistant Video Coordinator
 Chris Speeney—Graduate Assistant
 Tyler Wright—Graduate Assistant
 Michael Smith—Graduate Assistant
 Michael Downing—Graduate Assistant
 Garret Altman—Graduate Assistant
 Bobby McMillen—Graduate Assistant
 Andrea Roberts—Coordinator of Office Services
 Gisele Kates—Coordinator of Office Services

Golf (Men's)

Bill Montigel, B.A., M.S.—Head Coach
 Adrien Mork—Assistant Coach
 Jessica Hill—Administrative Assistant

Golf (Women's)

Angie Ravaoli-Larkin, B.A.—Women's Golf Coach
 Andrea Kaelin—Associate Head Coach
 Jessica Hill—Administrative Assistant

Rifle

Karen Monez, A.A.—Head Coach
 Hannah Black—Assistant Coach

Soccer (Women's)

Eric Bell, B.A.—Head Coach
 Ryan Higginbotham, B.S.—Assistant Coach
 Tom Serratore—Assistant Coach

Hannah Grant—Director of Soccer Operations
 Jessica Hill—Administrative Assistant

Swimming (Men's and Women's)

James Winchester—Head Coach
 Anthony Crowder—Head Diving Coach
 Jean Madison—Assistant Coach
 Scott Goodrich—Assistant Coach
 Mona Groteguth-Garcia—Assistant Coach
 Clare Rasmus—Volunteer Coach
 Kyle Troskot—Volunteer Assistant Coach
 Kaitlyn Beaver—Graduate Assistant/Diving Coach
 Laura Weisbrod—Administrative Assistant

Tennis (Men's)

David Roditi, B.A.—Head Coach
 Devin Bowen, B.A.—Assistant Coach
 Jonathan Pham—Operations Coordinator
 Elaine Martinez—Administrative Assistant

Tennis (Women's)

Lee Walker Taylor, M.S.—Head Coach
 Christopher Williams—Assistant Coach
 Jonathan Pham—Operations Coordinator
 Elaine Martinez—Administrative Assistant

Track (Men's and Women's)

Darryl Anderson, B.S., M.S.—Head Coach (Sprints)
 Lisa Morgan-Richman—Head Cross Country Coach
 John Kenneson, B.S., M.Ed.—Associate Head Coach (Throws)
 Kevin Henderson—Assistant Coach (Hurdles)
 Shawn Jackson—Assistant Coach (Jumps)
 Scott Miller—Assistant Coach (Multis and Pole Vault)
 Jessica Hill—Administrative Assistant

Volleyball (Women's)

Jill Pape-Kramer, B.B.A.—Head Coach
 Eysha Ambler—Associate Head Coach
 Kyle Luongo—Assistant Coach
 Mackenzie Keenan—Director of Operations
 Laura Weisbrod—Administrative Assistant

Beach Volleyball (Women's)

Hector Gutierrez—Head Coach
 Majo Orellana—Assistant Coach
 Olivia Beyer—Graduate Assistant
 Laura Weisbrod—Administrative Assistant

Center for Academic Services

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 Ashley Edwards, B.S., M.S.—Academic Adviser
 Nick Velarde, B.A.—Academic Adviser
 Laurel Cunningham, M.Ed.—Coordinator, Student Disabilities Services
 Sharon Kassler, B.B.A., M.B.A.—Disabilities Specialist
 LaShondra Jimerson, B.A., M.S.W.—Disabilities Specialist

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Keely Self—Administrative Assistant

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Kevin Buchanan—Computer Hardware Technician

Austin Counts, B.A.—Computer Hardware Technician

Ken Do—Computer Hardware Technician

Terrie Harbour—Purchasing Specialist

Information Security Services

James Mayne, B.S., B.A., B.S., M.S.—Director, Information Security Services

David Kinch, B.A.—Information Security Engineer

Lenelda Pennington, B.S.—Information Security Engineer

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Ben Crenshaw, B.S.—Applications Developer

Susie Davis, B.B.A., M.B.A., C.P.A.—Applications Developer

Faina Feldman, B.S., M.S.—Application Developer

Cindy McPherson, B.F.A., M.L.A.—Applications Developer

Michael Perales, B.B.A.—Applications Developer

Michael Selman, B.B.A., M.B.A.—Applications Developer

Joel Smith, B.A., M.B.A., J.D.—Applications Developer

Shawn Spangler, B.S.—Applications Developer

Jeffrey Stanley, B.S.—Applications Developer

Steve Taylor, B.S.—Applications Developer

Huy Tran, B.A.—Applications Developer

Yolanda Winston, B.B.A., M.L.A.—Applications Developer

Toby Leonard, B.S.—Applications Developer

Computer Systems

Craig Carlson, B.B.A.—Associate Director, Computer Systems

Ann Bailey, B.B.A., M.L.A.—Manager of Systems Labs

Mark Cook, B.S.—Client Server Administrator

Jon Eidson, B.S., M.B.A.—Sr. Database Administrator

Sean Gillaspay, B.S.—Administrator, Systems Labs

Jim Gribble, B.S.—Administrator, Systems Labs

Thomas Guidry, B.B.A.—Systems Administrator

Philip Howell—Systems Administrator

David Jewett—System Administrator

Josiah Miller, B.A.—Systems Administrator
 Aaron Munoz, B.A., B.S.—Server Security Administrator
 Brian Nevius—Systems Administrator
 Stephen Meyers—Systems Administrator
 Tommy Riley, B.B.A.—Database Administrator
 Shelley Shuga, B.B.A. – Systems Administrator

IT Support

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 Rob Allen, B.A, M.A.—Customer Services Consultant
 Karen Bowerman, B.S.—Sr. Customer Services Consultant
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 Alan Crume, A.A., B.S., D.D.—Customer Services Consultant
 Cathleen Dawson-Jackson, A.A.—Sr. Customer Services Consultant
 Charles Dewar, M.B.A.—IT Coordinator, Harris
 Coleman Gee, B.S.—Sr. Customer Services Consultant
 Jonathan McNair, B.S. – IT Coordinator, Student Affairs
 Matt Coffey, B.A.—IT Support, Athletics
 Rebecca Glass, B.S.—Sr. Customer Services Consultant
 Michael Glass, B.A., B.A.—Frontline Operations Coordinator
 Lori Russell, B.A.—Customer Services Consultant
 Susan Bartlett, B.B.A., M.L.A.—Customer Services Consultant
 Matthew Thomas, B.S.—IT Coordinator, AddRan/Education

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Kevin Knight, Ph.D.—IBR Director and Professor of TCU School of Medicine an Saul B. Sells Chair of Psychology
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 Wayne E.K. Lehman, Ph.D.—Senior Research Scientist
 Jennifer Edwards Becan, Ph.D.— Research Scientist
 Jennifer Pankow, Ph.D.— Research Scientist
 Yang Yang, Ph.D. – Research Scientist
 Randi Proffitt, Ph.D. – Associate Research Scientist
 Jennifer Lux, Ph.D. – Associate Research Scientist
 Amanda Wiese, Ph.D. – Associate Research Scientist

Institutional Research

Cathan L. Coghlan, A.B., M.S.S.W., Ph.D.—Director
 Lindsey Millns, M.B.A.—Assistant Director, Reporting & Operations
 Melissa Reeves, B.S.W., M.S.S.W.—Assistant Director, Data Analytics & Governance
 TBD — Reporting Specialist

Instructional Services

Larry E. Kitchens, B.S., M.Ed.—Director

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 Nicholas Tillman.—Web Services Front End Designer
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 Jason Soileau—Assistant Vice Chancellor, Campus Planning
 Everlyn Williams—Director of Finance, Facilities
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 Armondo Rio, B.S.—Assistant Director, Facility Services
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 Donald W. Bruner, Architect—Project Manager
 Jesus Rangel, Jr., PE, LEED GA, B.S., M.B.A.—Project Manger
 Brooke Ruesch, LEED GA, B.S.—Project Manger
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 Amanda Gonzales—Coordinator of Faculty Recruitment and Appointments
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 Meredith Brunson – Director, Academic Affairs Finance and Operations

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Lindsey Tardif, M.Ed., LPC—Substance Use and Recovery Counselor

Assessment

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Campus Life

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Karen Bell Morgan, B.S., M.P.H., Ph.D.—Associate Dean of Campus Life

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Crystal Page, B.A., M.Ed.—Care Coordinator of Campus Life

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Kathy Quiat, Administrative Assistant

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Camille Sholars, B.S. —Campus Recruitment Program Administrator

Julie Reynolds—Administrative Assistant, Alcon Career Center

Counseling Center

Eric Wood, Ph.D.—Director, Licensed Psychologist/Licensed Professional Counselor

Linda Wolszon, Ph.D.—Associate Director, Licensed Psychologist

Kristin Harris-McDonald, Ph.D.—Assistant Director - Training, Licensed Psychologist

Caroline Sahba, M.Ed., LPC—Assistant Director - Substance Use and Recovery Counselor

Daralynn Dearthoff, D.O.—Consulting Psychiatrist

Kim Mercer, DNP, APRN, PMHNP-BC, FNP-BC.—Psychiatric Mental Health Nurse Practitioner

Cathy Elrod, LCSW, ACP—Licensed Clinical Social Worker

Amanda Swartz, Psy.D.—Licensed Psychologist

Matthew Johnson, Ph.D., LPC, CMPC—Licensed Professional Counselor and Mental Performance Consultant

Lindy Lotz, Ph.D.—Licensed Psychologist

Adriana "Adry" Sanders, LPC—Triage/Crisis Care Counselor

Chuck Dunning, LPC-S—Outreach Coordinator & Let's Talk Consultant

Leah Carnahan—Assistant Director of Title IX Advocacy & Education
 Lindsey Tardif, M.Ed., LPC—Substance Use and Recovery Counselor
 Elizabeth Parker, LPC—Triage/Crisis Care Counselor
 Diane Norton—Administrative Assistant
 Sharon Perea—Administrative Assistant

Department of Public Safety

Adrian Andrews, B.S., M.S.—Assistant Vice Chancellor for Public Safety
 Robert Rangel, B.S., M.S.— Interim Chief of TCU Police
 David Coriano, Parking and Transportation Coordinator
 Sean Taylor, B.S.—Director of Emergency Management

Culture, Community and International Services

Trung Nguyen, B.A., M.A., Ed.D.—Interim Assistant Vice Chancellor for Student Affairs

Jennifer Rodriguez-Ward—Administrative Assistant

Fraternities and Sorority Life

Brooke Scogin, B.F.A., B.S., M.A.—Director of Fraternity & Sorority Life
 Stephen Dominy, B.B.A., M.S.—Associate Director of Fraternity & Sorority Life
 Devin Wimberly, B.A., M.A.—Assistant Director for Fraternity and Sorority Life
 Gaius George, B.A., M.HR—Coordinator for Fraternity and Sorority Life
 David Sommers, B.A., M.Ed.—Coordinator for Fraternity and Sorority Life
 Amy Schroer, B.B.A., M.A.—Administrative Program Specialist

Health Center Providers

Jane Torgerson, M.D.—Director
 Ruth Kested, PA-C
 Holly Coker, PA-C
 Daralynn Deardorff, D.O.
 Amy De La Rosa, PA-C
 Kim Mercer, DNP PMHNP-BC, FNP-BC
 Evelyn Tobias-Merrill, M.D.
 Kerri Waldron, M.D.
 Beth Wieser, D.O.
 Mary Beth Cox, M.D.

Housing and Residence Life

Craig Allen, B.S., M.A.—Director
 Dave Cooper, B.S., M.S.—Associate Director of Residence Life
 Mindy Hollan, B.A., M.A.—Associate Director of Housing Administration
 Rachel Anne Hopper, B.A., M.Ed.—Associate Director of Residence Life
 Jason Titus, B.S., M.A.—Assistant Director of Residence Life
 Imani Wimberly, B.A., M.S.—Assistant Director of Residence Life
 Miles Oller, B.A., M.Ed.—Assistant Director of Residential Facilities
 John Hernandez, AAs.—Manager of Residential Housekeeping
 Gwen Clymo, B.S.—Business Operations Analyst
 Melissa Draper, B.S., MLA—Coordinator of Housing Assignments
 Danielle Hoefeld, B.A., M.S.—Area Coordinator
 Megan Mosiniak, B.A., M.Ed.—Area Coordinator

Inclusiveness and Intercultural Services

Timeka Gordon, B.A., M.S., Ed.D.—Director of IIS and Community Scholars
 Jamartae Jackson, B.S., M.Ed.—Program Coordinator for Community Scholars and First Generation

International Student Services (ISS)

John Singleton, B.A., M.Ed.—Director of International Student Services
 Liz Branch, B.A., M.L.A.—Assistant Director of ISS
 Jim English, B.A.—Advisor to International Students

Student Veteran Services

April Brown, B.S., M.Ed.—Director of Veterans Services

Marketing

Susan Nethery, B.A., M.B.A.—Director of Student Affairs Marketing
 Diana Selman, B.F.A., M.F.A.—Associate Director of Design & Website Management

Office of Religious and Spiritual Life

Todd Boling, B.A., M.Div.— University Chaplain
 Lea McCracken, B.A., M.Div.—Associate Chaplain and Church Relations Officer
 Mallory Nason, B.A. — Associate Director, RSL & Robert Carr Chapel
 Cindy Rodriguez, Administrative Assistant

Quality Enhancement

Angela Taylor, B.S., M.S., Ph.D., LPC-S — Director of Quality Enhancement

Student Activities

Kim Turner, B.B.A., M.S.Ed.—Executive Director of Student Activities
 Brad Thompson, MLA—Assistant Director of Student Activities and Marketing Coordinator
 Kelly Lee, B.S., M.S.—Student Activities Coordinator
 Mallory Odom, B.A.—Student Activities Coordinator for Publications & Campus Engagement

Student Development Services

Vanessa Roberts Bryan, B.S., M.S., Ed.D.—Assistant Dean of Student Development
 Rosangela Boyd, B.A., B.Ed., M.Ed., Ph.D.—Director, Community Involvement & Service Learning
 Deepti Chadee, B.S., M.Ed.—Director, Senior Year Experience
 Keri Cyr, B.A., M.Ed.—Director, Student Success
 Tyler Fisher, B.S., M.Ed.—Director, TCU Leadership Center
 Tara McWhorter, B.A., M.A.—Director, First Year Experience
 Dede Williams, B.B.A., M.B.A.—Director, Student Organizations, Learning & Development
 Erin Wilson B.A., M.S.—Associate Director, Community Engagement Programming
 Stefan Altheide, B.S., M.Ed.—Assistant Director, Student Development Services (Transfer Students)
 Jasmin Chung, B.S., M.Ed.—Assistant Director, First Year Experience
 Philip Dodd, B.A., M.S.— Assistant Director, TCU Leadership Center
 Lindsay Knight, B.A., M.Ed.—Assistant Director, TCU Leadership Center
 Brian McDermott, B.S., M.S.—Assistant Director, First Year Experience
 Brianna Varela, B.A., M.S.—Assistant Director, Sophomore & Junior Year Experience
 Reggie Jennings, B.S., M.Ed.—Coordinator, Student Development Services (Leaders 4 Life)
 Kate Bentley, B.A., B.A., M.,Ed.—Coordinator, Student Development Services (Leaders 4 Life)
 Marit Winborn, B.S., M.Ed.—Coordinator, Community Engagement Programming
 Laura Shaw, B.S., M.Ed.—Operations Manager
 Janette Hudson—Administrative Assistant

University Unions

Natalie Boone, B.S., M.S.Ed.—Assistant Director of University Unions for Operations
 Leticia Mendoza, B.S., M.S.Ed.—Assistant Director of University Unions for Student Engagement
 Kent Mire, B.S., M.S.—Director of University Unions for Operations

Vice Chancellor for Student Affairs

Kathy Cavins-Tull, B.A., M.S., Ph.D.—Vice Chancellor for Student Affairs
 Sue McClellan—Executive Assistant for the Vice Chancellor for Student Affairs

Yearbook

Mallory Odom, B.A.—Student Activities Coordinator for Publications and Campus Engagement

TCU Press

Dan Williams, PhD—Director

Kathy Walton, B.A.—Editor

Molly Spain, B.A., M.L.A.—Office Manager

Melinda Esco, B.A.—Production Manager

Rebecca Allen, B.A., B.S., M.L.A.—Marketing and Promotions Coordinator

University Advancement

Donald J. Whelan, Jr., B.S., EMIB — Vice Chancellor

Michelle Clark, B.A., M.A., APR—Associate Vice Chancellor Advancement Strategy and Administration

Advancement Communications

Rachel Harris, B.A. — Senior Director

Ma'lisa Yost, B.S. — Assistant Director

Advancement Operations

Travis Soyer B.S., M.B.A — Associate Vice Chancellor of Advancement Operations

Corina Cervantes, B.J. — Assistant Director of User Services

Yvonne Mann, B.B.A. — Advancement Help Desk Manager

Brandon Frank, B.G.S., M.L.A. — Documentation and Training Program Manager

Creed Henry II, B.S., M.B.A. — Business Systems Analyst

Michele Anders, B.S. — Director of Gift and Data Management

Miki Rayburne — Lead Gift Processor

Christina DeLeon — Gift Processor

Lori Pinson — Gift Processor

Sherry Crenshaw — Data Entry Student Supervisor

Tanya Wilkinson — Data Control Specialist

Laura Pyle, B.S — Director of Reporting and Technical Services

Troy Lewis — Lead Technical Services Analyst

Martha Freeman, B.B.A. — CRM Reporting Analyst

Anne Quevreaux, B.G.S. — CRM Reporting Analyst

Marianne Daily — CRM Reporting Analyst

James Torres — Business Intelligence Developer

Kristi Kolpanen, B.B.A., M.B.A — Assistant Director of Web Services

Daniel Carver—Web Developer/Technical Support

Don Dowell, B.B.A. — Graphic Designer/Web Developer

Alumni Relations

Amanda Stallings, B.S., M.L.A. — Associate Vice Chancellor, Alumni Relations

Carrie Brown, B.S., M.L.A. — Director, Alumni Relations

Jessica Cung, B.S. — Assistant Director of Alumni Relations

Brooke Shuman, B.A., M.Ed. — Associate Director, Alumni Relations

Melissa Austin-Weeks B.S.N. — Associate Director, Alumni Relations

Thomas Brown, B.S. — Associate Director, Alumni Relations

Ryan Tiglas, B.S. — Assistant Director, Alumni Relations

Rob Beuerlein, B.A. — Assistant Director, Alumni Relations

Athletic Fund-Raising (Frog Club)

Jennifer Colley, B.S. — Associate Athletic Director/Executive Director

Michael Levy, B.S. — Associate Athletic Director

John Denton, B.A. — Executive Director of TCU Lettermen's Association

Glenda Clausen — Assistant Director of Frog Club

Rudy Weiser, B.A., M.L.A. — Assistant Director Development

Dominic Fazio, Assistant Director Development

Donor Relations

Julie Whitt, B.B.A. — Associate Vice Chancellor of Donor Relations

Beth Cardwell, B.B.A. — Senior Director of Donor Relations

Karen Crouch, B.S. — Assistant Director of Donor Relations, Scholarships

Jenny Pitcock, B.A., M.A., Ph.D. — Assistant Director of Donor Relations, Endowment Reports

Audie Kuhn, B.S. — E-Stewardship Coordinator

Asaiah Puente — Donor Stewardship Coordinator

Andrea Losa, B.A. — Donor Stewardship Writer

University Development

David Nolan, B.A., M.A. — Associate Vice Chancellor of University Development

Michael Levy, B.S., — Associate Athletics Director for Development

Adam Baggs, B.A., M.P.A. — Assistant Vice Chancellor of College Development

Kathy Fletcher, B.A., MPA, CFRE — Development Director of Liberal Arts

Elyse Robinson, B.S. — Development Director of Fine Arts

Elizabeth Deegan, B.A. — Senior Development Director of Business

Valerie DeSantis B.A., M.Ed. — Development Director College of Science & Engineering

Jennifer Pearson, B.A., J.D. — Development Director of Communication

Laura Patton, B.A., M.D. - Development Director of Nursing and Health Sciences

Angela Strittmatter B.S. — Development Director & Special Projects

Ellie Hahn, B.A. — Associate Development Director of Business

Marc Mitrano, B.A. — Development Director Education

Shelly Frank, B.A., M.L.A. — Development Director Honors College

Kenton Watt, B.A. — Senior Development Director Medical School

Jason Byrne, B.S., M.S., MBA — Senior Director Corporate & Foundation Relations

Dennis Alexander, B.S. — Director of Foundation Giving

Merrilee Kuylen, B.B.A., C.P.A. — Senior Director of Gift Planning

Melissa Villegas, B.A., CFP®, EA — Director of Gift Planning

Marisa LePak — Associate Director of Gift Planning

Wendy Gilbert, B.A. CAP®, CFRE — Assistant Director Gift Planning

Janine Kraus, B.S., M.Ed., Ph.D. — Assistant Vice Chancellor Loyalty Giving

Harmonie Farrow, B.F.A., M.S. — Director of Loyalty Giving

Kristee Bell, B.S. — Director Constituent Engagement

Shawn Sibilsky — Development Director Leadership Gifts

Shannon Hughes. — Assistant Director Office of Loyalty Giving

Mario Aquino, B.A. — Assistant Director of Loyalty Giving

LyTer Green, B.S. — Director Marketing Coordinator

Penny Bishop, B.S. — Senior Director Parent Giving

David Dibble, B.A., M.A. — Development Director Parent Giving

Julie Kleberg — Parent Events

Michelle Franke, B.S. — Senior Director of Prospect Development

Alice Carter, B.A., M.A. —Data Quality Strategist

Andrea Heitz, B.A., M.S., M.T.S. — Senior Advancement Research Officer

Amanda Horton, B.F.A — Research Officer

Donia Wright, B.A., M.A. — Research Officer

Mike Edwards, B.A., M.S. — Senior Director Regional Development

Laura Barclay, B.B.A. — Development Director Midwest US & East TX

David Ferrell, B.A. — Development Director Southeastern US & Houston

Maya Jhangiani, B.B.A. — Development Director Eastern US & San Antonio

Kendall Riddell, B.S. — Development Director Southwestern US & Austin

Ashley Thames Brown, B.A. — Development Director Northwestern US & DFW

Koehler Center for Instruction, Innovation and Engagement

Joanna Schmidt, Ph.D.—Interim Director
 Afsaneh Farhadi—Director, Online and Distance Learning
 Megan Clawson—Faculty Developer
 Travis Kramer—eLearning Manager
 Cecilia Lunt—Koehler Center Project Coordinator

William L. Adams Center for Writing

Cheryl Slocumb, B.A., M.A.—Director
 Cynthia Shearer, B.A., M.A.—Associate Director
 Sidney Thompson, B.A., M.F.A., Ph.D.—Instructional Staff
 Lindsey Dunn, B.A., M.A., Ph.D.

Office of Religious and Spiritual Life

Todd Boling, B.A., M.Div.—University Chaplain
 Jeremy Albers, B.A., M.Div.—Associate Chaplain and Church Relations Officer
 Lisa Swain—Chapel Coordinator

Faculty

Neeley School of Business at TCU Directory

Daniel Pullin, *Dean*
 David G. Allen, *Associate Dean, Graduate Program*
 Hettie Richardson, *Interim Associate Dean, Undergraduate Programs*
 Lynn Muller, *Assistant Dean, Undergraduate Programs*
 Mark Muller, *Assistant Dean, Finance and Administration*
 Suzanne M. Carter, *Executive Director, EMBA Program*
 Morgan L. Swink, *Executive Director, Supply and Value Chain Center*
 Jim Roach, *Executive Director, Neeley Executive Education at the Tandy Center*
 David Dubofsky, *Director, Luther King Capital Management Center for Financial Studies*
 Laura Gore, *Director, Alumni and Constituent Relations*
 Laura Meade, *Director, International Programs*
 Chuck Miller, *Director, Information Technology*
 Kelly O'Brien, *Director, Professional Development Center Professional Development Center at Neeley*
 Jessica Cates, *Director, Alcon Services Center*
 Jeff Waite, *Director, Marketing Communications*
 DANYELLE L. ACKALL, *Instructor of Management. B.S. (Texas A&M University), 1996; M.S. (University of Texas at Arlington), 2003. Since 2014.*
 ROBERT AKIN, JR., *Assistant Professor of Professional Practice. B.G.S. (Texas Christian University), 1998; MBA (Ibid.), 2002; EdD. (Ibid.) 2013. Since 2003.*
 ANNE ALBRECHT, *Assistant Professor of Accounting. B.S. (University of Kansas), 2008; M.S. (Ibid.) 2009; Ph.D. (University of Missouri-Columbia) 2016. Since 2016. CPA.*
 DAVID G. ALLEN, *Professor of Management and Associate Dean, Graduate Programs. B.S. (Georgia Institute of Technology), 1991; M.S. (Ibid.), 1993; Ph.D. (Georgia State University), 1999. Since 2017*
 AARON H. ANGLIN, *Assistant Professor of Entrepreneurship. B.S. (Western Carolina University), 2004; M.E. (Western Carolina University), 2006; MS. (North Carolina State University), 2013; Ph.D. (University of Oklahoma), 2017. Since 2017*
 YASHODA BHAGWAT, *Assistant professor of Marketing. B.A. (University of Michigan, Ann Arbor), 2008, M.S. (University of Alabama, Tuscaloosa), 2009, Ph.D. (Georgia State University), 2015. Since 2015.*
 JOHN BIZJAK, *Professor of Finance and Holder of the Robert & Maria Lowdon Chair of Business Administration. B.A. (University of California, Berkeley), 1983, Ph.D. (University of Utah), 1992. Since 2010.*

AUDRA BOONE, *Professor of Finance and holder of the C.R. Williams Professor of Finance Chair. B.S. (University of Kansas), 1997; Ph.D. (Pennsylvania State University), 2002. Since 2016.*

LAYNE C. BRADLEY, *Instructor in Business Information Systems. B.A. (University of Texas at Arlington), 1970; M.B.A. (Texas Christian University), 1980; M.A. Business Communications (Jones International University), 2005. Since 2011.*

TYSON R. BROWNING, *Professor of Operations Management. B.S. (Abilene Christian University), 1993; S.M. (Massachusetts Institute of Technology), 1996; Ph.D. (Ibid.) 1999. Since 2003.*

GARRY BRUTON, *Professor of Management. Holder of the Fehmi Zeko Faculty Fellowship. B.A. (University of Oklahoma), 1978; M.B.A. (George Washington University), 1982; Ph.D. (Oklahoma State University), 1989. Since 1998.*

SANDRA R. CALLAGHAN, *Associate Professor of Accounting. B.S. (Texas Christian University), 1988; M.P.A. (University of Texas at Austin), 1990; Ph.D. (Michigan State University), 1998. Since 1998. CPA.*

SUZANNE M. CARTER, *Professor of Professional Practice in Management. B.S. (University of Illinois), 1986; M.B.A. (University of Texas at Austin), 1992; Ph.D. (Ibid.), 1997.*

DANIEL QI CHEN, *Professor of Information Systems. B.E. (Shanghai Maritime University), 1994; M.B.A. (Washington University), 1999. Ph.D. (University of Georgia), 2004. Since 2004.*

JEFF ZEYUN CHEN, *Associate Professor of Accounting. BS (Fudan University), 2002; MBA (University of Louisiana at Lafayette), 2004; Ph.D. (University of Houston), 2009. Since 2017.*

SHANA M. CLOR-PROELL, *Professor of Accounting. B.S. (Cornell University), 2000; M.S. (Cornell University), 2006; Ph.D. (Cornell University), 2007. Since 2011. CPA.*

JANICE B. COBB, *Instructor of Accounting. B.B.A. (Texas Christian University), 1984; M.B.A. (Ibid.), 1986; Ed.D. (Ibid) 2017. Since 1997. CPA.*

MICHAEL S. COLE, *Associate Professor of Management. B.A. (Arkansas Tech University), 1996; M.A. (University of Tulsa), 1997; Ph.D. (Auburn University), 2003. Since 2007.*

JULIE DAHLQUIST, *Associate Professor of Professional Practice in Finance. B.B.A. (University of Louisiana, Monroe) 1984; M.A. (St. Mary's University), 2003; Ph.D. (Texas A&M University), 1989. Since 2015.*

C. CLIFFORD DEFEE, *Associate Professor of Professional Practice in Supply Chain Management. B.B.A. (Texas A&M University), 1981; M.B.A. (Ibid.) 1983; Ph.D. (University of Tennessee), 2007. Since 2019.*

PATRICK E. DOWNES, *Assistant Professor of Management. B.S. (University of Kansas), 2006; M.Ed. (Iowa State University), 2008; Ph.D. (University of Iowa), 2015. Since 2018.*

GEORGE DRYMIOTES, *Associate Professor of Accounting. B.B.A. (University of Cyprus), 1999; Ph.D. (University of Florida), 2004. Since 2013.*

O. HOMER EREKSON, *Dean and John V. Roach Chair in Business. B.A. (Texas Christian University), 1974; Ph.D. (University of North Carolina), 1980. Since 2008.*

RODNEY R. D'SOUZA, *Associate Professor of Professional Practice in Entrepreneurship, and Managing Director of the TCU Neeley Institute for Entrepreneurship and Innovation. B.Com. (University of Pune), 1999; M.C.M. (Ibid.), 2000; M.B.A. (Northern Kentucky University), 2003; Ph.D. (University of Louisville), 2009. Since 2018.*

DAVID A. DUBOFSKY, *Director of the LKCM Center for Financial Studies and Professor of Professional Practice in Finance. B.E. (City College of New York), 1973; M.B.A. (University of Houston), 1975; Ph.D. (University of Washington), 1982. Since 2019.*

GRANT FARNSWORTH, *Assistant Professor of Finance. B.A. (Brigham Young University), 2004; B.S. (Ibid.); 2004; M.S. (Northwestern University), 2007; Ph.D. (Pennsylvania State University), 2015. Since 2015.*

STACY LANDRETH GRAU, *Professor of Professional Practice in Entrepreneurship and Innovation. B.A. (University of Louisiana-Lafayette), 1994; M.S. (Louisiana State University), 1997; Ph.D. (Ibid.), 2002. Since 2008.*

WILLIAM GRIESER, *Assistant Professor of Finance. BBA (Texas State University), 2011; B.S. (Ibid.), 2011; Ph.D. (Michigan State University), 2015. Since 2017.*

- ZACH HALL, *Assistant Professor of Marketing*. B.B.A. (Texas A&M Corpus Christi); 2005; MBA (Texas Tech University); 2007; M.S. Finance (Ibid.); 2007; Ph.D. Marketing (University of Houston); 2013. Since 2013.
- T. BRAD HARRIS, *Associate Professor of Management*. B.B.A. (Texas Tech University); 2003; M.B.A. (University of Florida); 2006; Ph.D. (Texas A&M University); 2012. Since 2015.
- JOSEPH S. HARRISON, *Assistant Professor of Management*. B.S. (University of Richmond); 2009; Ph.D. (Texas A&M University); 2017. Since 2017.
- IN-MU HAW, *Holder of the J. Vaughn & Evelyne H. Wilson Professor in Business*. B.A. (Cheong-Ju University); 1974; M.B.A. (University of Alabama); 1979; Ph.D. (Ibid.); 1983. Since 1990.
- MICHAEL A. HITT, *Distinguished Research Fellow in Management*. B.B.A. (Texas Tech University); 1968; M.B.A. (Ibid.); 1969; Ph.D. (University of Colorado); 1974. Since 2015.
- KEITH M. HMIELESKI, *Professor of Entrepreneurship, Robert and Edith Schumacher Executive Faculty Fellow, and Academic Director of the TCU Neeley Institute for Entrepreneurship and Innovation*. A.S. (Greenfield Community College); 1995; B.S. University of Massachusetts; 1998; M.S. (Rensselaer Polytechnic Institute); 2002; Ph.D. (Ibid.); 2005. Since 2005.
- PATRICK L. HOPKINS, *Assistant Professor of Accounting*. B.B.A. (Mercer University); 2005; M. Acc. (Georgia Southern University); 2008; Ph.D. (University of Arkansas); 2019. Since 2019. CPA.
- PAUL J. IRVINE, *Holder of the Kleinheinz Family Foundation Endowed Chair in International Finance and Investments*. B.B.A. (University of Calgary); M.A. (Simon Fraser University); M.S. (University of Rochester); 1993; Ph.D. (Ibid.); 1996. Since 2013.
- MARK B. HOUSTON, *Professor of Marketing and Holder of the James L. and Eunice West Chair of Marketing*. B.S. (Southwest Baptist Seminary); 1984; M.B.A. (University of Missouri, Columbia); 1990; Ph.D. (Arizona State University); 1995. Since 2017.
- VALERIE R. JOHNSTON, *Professor of Professional Practice in Healthcare Management*. A.S. (Macon State College); 1984; B.S. (Georgia Institute of Technology); 1986; M.B.A. (Duke University); 1999; Ph.D. (The University of North Carolina at Charlotte); 2008. Since 2018.
- BEATA JONES, *Professor of Professional Practice in Information Systems*. B.B.A. (Baruch College) 1988; M.S. (Ibid.); 1988; Ph.D. (City University, New York); 1993. Since 1995.
- L. VAN JONES, *Instructor of Statistics*. B.S. (Texas Christian University); 1961; MBA (Ibid.); 1963; Ph.D. (Louisiana Baptist Theological Seminary); 1996. Since 2001.
- PATRICIA JORDAN, *Assistant Professor of Professional Practice in Supply Chain Management*. B.S. (Oklahoma State University); 1986; M.B.A. (Ibid.); 1992; Ph.D. (Ibid.); 2014. Since 2015
- SWAMINATHAN KALPATHY, *Associate Professor of Finance*. B.S. (Birla Institute of Technology & Science); 1994; M.B.A. (Southern Illinois University); 1999; Ph.D. (Arizona State University); 2004. Since 2013.
- SUSAN B. KLEISER, *Professor of Professional Practice in Marketing*. B.B.A. (University of Notre Dame); 1989; Ph.D. (University of Cincinnati); 1996. Since 2005.
- JEREMY J. KOVACH, *Assistant Professor of Supply Chain Management*. B.S. (University of Tennessee, Knoxville); 1998; M.S. (Ibid.); 1999; Ph.D. (Georgia Institute of Technology); 2014. Since 2015.
- RYAN A. KRAUSE, *Associate Professor of Management*. B.S. (Indiana University); 2009; Ph.D. (Indiana University); 2013. Since 2013.
- MARK C. LAYTON, *Instructor in Supply Chain Management*. B.S. (Northern Arizona University); 1981; Master of Professional Studies in Supply Chain Management (Pennsylvania State University); 2015. Since 2018.
- TED W. LEGATSKI, *Associate Professor of Professional Practice in Entrepreneurship*. B.B.A. (Sam Houston State University); 1989; M.B.A. (Ibid.); 1991; Ph.D. (Texas A&M University); 1997. Since 2002.
- ROBERT P. LEONE, *Professor of Marketing and J. Vaughn and Evelyne H. Wilson Chair of Marketing*. B.A. (University of Texas at Arlington); 1973; M.B.A. (Ibid.); 1974; Ph.D. (Purdue University); 1978. Since 2008.
- RANDY LEWIS, *Instructor of Management*. A.A. (Tarrant County Junior College); 1983; B.B.A. (Dallas Baptist University); 1995; M.B.A. (Texas Christian University); 1998. Since 1999.
- NING (ALEX) LI, *Assistant Professor of Management*. B.S. (Zhejiang University); 2006; M.S. (Ibid.); 2006; Ph.D. (University of Maryland); 2017. Since 2017.
- STEVE C. LIM, *Associate Professor of Accounting*. B.A. (Korea University); 1976; M.S. (Ibid.); 1980; Ph.D. (Wharton School); 1989. Since 1999.
- LARRY J. LOCKWOOD, *Professor of Finance and Holder of the Dr. Stan Block Endowed Chair in Finance*. B.S. (David Lipscomb University); 1975; M.A. (Western Kentucky University); 1979; M.S. (Purdue University); 1980; Ph.D. (Ibid.); 1982. Since 1994.
- STEPHEN LUSCH, *Associate Professor of Accounting*. B.S. (Texas Christian University); 2008; MS (University of Notre Dame); 2009; Ph.D. (University of Arizona) 20014. Since 2017.
- JANE M. MACKAY, *Associate Professor of Management Information Systems*.
- STEVEN C. MANN, *Associate Professor of Finance*. B.S. (University of Utah); 1984; Ph.D. (Ibid.); 1994. Since 1994.
- JOHN MATHIS, *Instructor of Management*. B.S. (Truman State University); 1966; M.A. (Arizona State University); 1968. Since 2005.
- LAURA M. MEADE, *Professor of Professional Practice in Supply Chain*. B.S. (Valparaiso University); 1986; M.B.A. (University of Texas at Arlington); 1991; Ph.D. (Ibid.); 1997. Since 2004.
- VASSIL MIHOV, *Associate Professor of Finance*. B.A. (Graceland College); 1995; Ph.D. (Purdue University); 2000. Since 2000.
- THOMAS MOELLER, *Associate Professor of Finance*. B.A. (University of Giessen); 1995; M.B.A. (University of Kentucky); 1996; Ph.D. (University of Texas at Austin); 2002. Since 2006.
- WILLIAM C. MONCRIEF III, *Professor of Marketing and Academic Director Neeley Fellows Program, Holder of Charles F. and Alan P. Bedford Professor of International Business*. B.A. (University of Mississippi); 1975; M.B.A. (Ibid.); 1978; Ph.D. (Louisiana State University); 1983. Since 1982.
- JEFF MOORE, *Instructor of Finance*. B.B.A. (Texas Christian University); 1969; M.B.A. (Ibid.); 1971. Since 1974.
- KAREN K. NELSON, *Holder of the M.J. Neeley Professor in Accounting*. B.S. (University of Colorado); 1988; Ph.D. (University of Michigan); 1997. Since 2016. CPA.
- MARC NERI, *Associate Professor of Professional Practice in Accounting*. B.S. (Durham University); 1996; MH (University of Dallas); 2008; Ph.D. (University of North Texas); 2016. Since 2016.
- RENEE M. OLVERA, *Professor of Professional Practice in Accounting, Director of the Master of Accounting and Director of the Master of Science in Business Analytics*. B.S. (Northern Illinois University); 2001; M.A.S. (Northern Illinois University); 2002; Ph.D. (University of North Texas); 2012. Since 2012. CPA.
- ELIZABETH PLUMMER, *Professor of Accounting*. B.A. (Rice University) 1984; M.P.A. (University of Texas at Austin); 1986; Ph.D. (Ibid.) 1994. Since 2007. CPA.
- DAVID S. PRESTON, *Professor of Information Systems*. B.S. (University of Florida); 1991; M.E. (Ibid.); 1993; M.B.A. (University of Georgia); 2000. Ph.D. (Ibid.); 2004. Since 2004.
- RICHARD PRIEM, *Professor of Management and Holder of the Luther Henderson Chair of Strategic Management and Leadership*. B.A. (St. Olaf College) 1971; M. S. (University of Arkansas) 1980; Ph.D. (University of Texas at Arlington) 1990. Since 2010.
- CHAD A. PROELL, *Associate Professor of Accounting*. B.A. (University of St. Thomas); 1993; M.B.A. (Cornell University); 2001; M.S. (Cornell University); 2005; Ph.D. (Cornell University); 2006. Since 2011. CPA.
- RANGA V. RAMASESH, *Professor of Decision Sciences*. B.E. (University of Mysore); 1968; M.E. (Indian Institute of Science); 1970; M.B.A. (University of Rochester); 1982; Ph.D. (Pennsylvania State University); 1988. Since 1988.
- ROBERT T. RHODES, *Professor of Professional Practice*. J.D. (Baylor University); 1980; L.L.M. (Tulane University); 1992. Since 1984.
- HETTIE A. RICHARDSON, *Professor of Management, and Management, Entrepreneurship and Leadership Department Chair*. B.A. (University of Houston); 1994; M.A. (University of Georgia); 1996; Ph.D. (Ibid.) 2001. Since 2013.
- MAURICIO RODRIGUEZ, *Professor of Finance and Real Estate, Holder of the Theodore and Beulah Beasley Faculty Fellowship, and Chair Department of Finance*. B.B.A. (George Washington University); 1988;

M.B.A. (American University), 1989; Ph.D. (University of Connecticut), 1994. Since 1994.

TRACEY ROCKETT-HANFT, *Professor of Professional Practice and Faculty Associate Director of the Neeley Fellows Program*. B.S. (Texas A&M University), 1995. Ph.D. (University of Texas at Dallas), 2002. Since 2012.

JOSEPH A. ROH, *Associate Professor of Supply Chain Management*. B.S. (U.S. Air Force Academy), 1988; MS (Air force Institute of Technology), 1994; PhD (Michigan State University). 2010. Since 2010.

JUE REN, *Assistant Professor of Economics and Finance*. BBA (University of Wisconsin-Madison); M.A. (Emory University), 2016; Ph.D. (Emory University), 2017. Since 2017.

MICHAEL S. SHERROD, *William M. Dickey Entrepreneur in Residence*. B.A. (University of Notre Dame), 1974; M.A. (University of Missouri at Columbia), 1976; E.M.B.A. (Texas Christian University), 2010. Since 2011.

ABBIE J. SHIPP, *Associate Professor of Management*. B.B.A. (Oklahoma State University), 1996; MBA (Ibid.), 2000; Ph.D. (University of North Carolina), 2006. Since 2012.

SHANNON SHIPP, *Associate Professor of Marketing*. B.S. (Tulsa), 1977; M.B.A. (Rensselaer Polytechnic Institute), 1978; Ph.D. (University of Minnesota), 1990. Since 1988.

KELLY T. SLAUGHTER, *Associate Professor of Professional Practice in Information Systems*. B.B.A. (University of Texas Austin), 1992; M.B.A. (University of Chicago), 1999; Ph.D. (University of Minnesota), 2009. Since 2018.

GREGORY K. STEPHENS, *Associate Professor of Management and Academic Director of the BNSF Next Generation Leadership Program*. B.S. (Brigham Young University), 1982; M.B.A. (Ibid.), 1984; Ph.D. (University of California, Irvine), 1992. Since 1990.

JEFF K. STRATMAN, *Chair and Professor of Information Systems and Supply Chain Management*. B.S.E. (Princeton University), 1989; Ph.D., (University of North Carolina at Chapel Hill), 2001. Since 2013.

SARANG SUNDER, *Assistant Professor of Marketing*, B.E. (Anna University, Chennai, India), 2007, Ph.D. (Georgia State University), 2015. Since 2015.

MORGAN L. SWINK, *Professor of Supply Chain Management and Holder of the Eunice and James L. West Chair in Supply Chain Management*. B.S. (Southern Methodist University), 1983; MBA (University of Dallas), 1986; Ph.D. (Indiana University), 1992. Since 2010.

ANN J. TASBY, *Instructor of Accounting*. B.S. (DeVry University), 1992; M.B.A. (Ibid.), 2003. Since 2017. CPA.

SRIRAM THIRUMALAI, *Associate Professor of Supply Chain Management*. BTech (Indian Institute of Technology), 2000; Ph.D., (University of Minnesota), 2005. Since 2013.

TRAVIS TOKAR, *Associate Professor of Supply Chain Management*. B.S. (University of Arkansas), 2000; Master of Transportation and Logistics Management (Ibid.), 2001; Ph.D. (Ibid.), 2006. Since 2009.

MINAKSHI TRIVEDI, *Professor and Department of Marketing Chair*. M.Sc. (Delhi University, India), 1978; M.B.A. (BK School of Management, India), 1984; Ph.D. (University of Texas at Dallas), 1991. Since 2016.

AMY TROUTMAN, *Instructor of Accounting, and Director, Professional Program in Accounting*. B.B.A. (The University of Texas at Austin), 1997; M.P.A. (Ibid.), 1997. Since 2018. CPA.

MARY UHL-BIEN, *Professor of Management, and BNSF Railway Endowed Professor in Leadership*. B.B.A. (University of Cincinnati), 1986; M.B.A. (Ibid.), 1988; Ph.D. (Ibid.), 1991. Since 2014.

MARY J. WALLER, *Professor of Management, and M.J.Neeley Professor of Management*. B.B.A. (University of Oklahoma), 1983; M.S. (University of Colorado - Denver), 1990; Ph.D. (University of Texas at Austin), 1995. Since 2017.

PATRICIA DORAN WALTERS, *Professor of Professional Practice in Accounting*. B.A. (College of St. Elizabeth), 1970; M.B.A. (New York University), 1985; Ph.D. (New York University), 1993. Since 2011. CFA.

DAVID WELTMAN, *Associate Professor of Professional Practice in Supply Chain Management*. B.S. (Southern Methodist University), 1984; M.S. (Ibid.), 1986 M.S. (University of Texas at Arlington), 2006; Ph.D. (Ibid.), 2007. Since 2012

WILLIAM F. WEMPE, *Professor of Accounting*. BS (McPherson College), 1986; MBA (Wichita State University), 1989; Ph.D. (Texas A&M University), 1998. Since 2001.

XIAOYAN (WINNIE) WEN, *Associate Professor of Accounting*. BS (Tsinghua University), 1998, MS (Ibid.), 2001 and 2003, Ph.D. (Carnegie Mellon University), 2007. Since 2015.

MARK B. WILLIS, *Instructor of Accounting*. B.B.A. (Valdosta State University), 1990; M.Acc. (University of West Georgia), 2012. Since 2017. CPA.

J. CHRIS WHITE, *Associate Professor of Marketing*. B.B.A. (West Texas State University), 1991; M.B.A. (Texas A&M University), 1993; Ph.D. (Ibid.), 1998. Since 2007.

BARBARA WOOD, *Associate Professor of Professional Practice in Finance and Assistant Director Luther King Capital Management Center for Financial Studies*. B.I.E. (Auburn University), 1978; M.B.A. (Baylor University) 1999; Ph.D. (University of Texas at Arlington), 2005. Since 2001.

LAURIE WOOD, *Instructor of Accounting*. B.B.A. (Texas Christian University), 1999; M.B.A. (University of Texas, Arlington), 2001. Since 2007.

ERIC YORKSTON, *Associate Professor of Marketing*. B.A. (University of Colorado), 1992; M.B.A. (Rutgers University), 1995; Ph.D. (New York University), 2000. Since 2005.

SHANNON YOUNGER, *Assistant Professor of Entrepreneurship* B.A. (University of Iowa), 2007; Ph.D. (University of Wisconsin - Madison), 2018. Since 2018.

Bob Schieffer College of Communication Directory

Kristie Bunton, *Dean*

Wendy Macias, *Associate Dean of Undergraduate Studies*

Julie O'Neil, *Associate Dean for Graduate Studies and Administration*

Communication Studies

KRISTEN CARR, *Associate Professor*. B.A. (Stonehill College), 2001; M.S. (Ibid.), 2009; Ph.D. (University of Nebraska-Lincoln), 2012. Since 2012

KATHERINE E. FORSYTHE, *Instructor*. B.A. (Texas Christian University), 2010; M.A. (Texas Christian University), 2013. Since 2014.

JOHNY GARNER, *Professor*. B.A. (Abilene Christian University), 1999; M.A. (Ibid.), 2001; Ph.D. (Texas A & M University), 2006. Since 2010.

BRITNEY GILMORE, *Assistant Professor*. B.S. (Texas A&M University - Texarkana), 2012; M.A., (Stephen F. Austin University), 2013; Ph.D. (University of Oklahoma), 2020. Since 2020.

CHRIS HARPER, *Instructor I*. B.A. (Arkansas State University), 1994; B.A. (Ibid.), 1994; M.A. (Ibid), 1996; Ed.S (Ibid.), 2011; Ed.D. (Ibid.) 2008. Since 2017.

AMORETTE N. HINDERAKER, *Assistant Professor*. B.A. (South Dakota State University), 1997; M.A. (North Dakota State University), 2009; Ph.D. (Ibid.), 2012. Since 2012.

DEBI L. IBA, *Instructor II*. B.S. (Southwest Missouri State University), 1984; M.A. (Ibid.), 1987; Ph.D. (University of North Texas), 2007. Since 2005.

PAUL E. KING, *Professor*. (Hardin-Simmons University), 1978; M.S. (Texas Christian University), 1980; Ph.D. (University of North Texas), 1985. Since 1980.

ANDREW LEDBETTER, *Professor*. B.S. (Wheaton College), 2002; M.A. (University of Kansas), 2004; Ph.D. (Ibid.), 2007. Since 2010.

CARRIE MOORE, *Instructor II*. B.S. (West Texas A & M University), 2002; M.A. (Texas Tech University), 2004. Since 2011.

JIHYUN (ESTHER) PAIK, *Assistant Professor*. B.B.A. (Yonsei University), 2010; M.S. (University of Michigan - Ann Arbor), 2012; M.A. (Michigan State University), 2014; Ph.D. (University of Wisconsin - Madison), 2020. Since 2020.

CHRIS R. SAWYER, *Professor*. B.A. (Houston Baptist University), 1976; M.S. (Texas Christian University), 1980; Ph.D. (University of North Texas), 1992. Since 1999.

PAUL SCHRODT, *Professor and Director of Graduate Studies, Communication Studies*. B.A. (University of Texas, Arlington); 1997; M.A. (University of North Texas), 2000; Ph.D. (University of Nebraska-Lincoln), 2003. Since 2006.

MELISSA Y. SCHROEDER, *Associate Professor and Chair*. B.A. (State University of New York), 1991; M.A. (Ibid.), 1993; Ph.D. (Ibid.), 1996. Since 1995.

SHARON STAHR FISHER, *Lecturer*. B.A. (University of Nebraska at Kearney), 2008; M.S. (Texas Christian University), 2013. Since 2020.

PAUL L. WITT, *Professor*. B.M. (University of Houston), 1970; M.M. (Ibid.), 1993; M.A. (University of North Texas), 1997; Ph.D. (Ibid.), 2000. Since 2004.

QINGHUA (CANDY) YANG, *Assistant Professor*. B.A. (Capital Normal University Beijing, China), 2009; M.A. (Ibid.), 2011; M.A. (Ibid.), 2012; Ph.D. (University of Miami), 2015. Since 2017.

JIE (JACKIE) ZHUANG, *Assistant Professor*. B.A. (Fudan University, P.R. China), 2007; M.A. (Michigan State University), 2009; Ph.D. (Ibid.), 2014. Since 2017.

Film, Television and Digital Media

RICHARD J. ALLEN, *Professor*. B.F.A. (New York University), 1981; M.F.A. (Indiana University), 1984. Since 1993.

DUSTIN HAHN, *Assistant Professor*. B.A. (Harding University), 2009; M.A. (Ibid.), 2012; Ph.D. (Texas Tech University), 2014. Since 2016.

KYLO-PATRICK HART, *Professor and Chair*. A.B. (University of California), 1988; M.A. (University of Southern California), 1993; M.A. (Ibid.), 1993; M.A. (Wayne State University), 1999; M.A. (Dartmouth), 2009; Ph.D. (University of Michigan), 1999. Since 2010.

RONALD ANDREW HASKETT, *Associate Professor of Professional Practice in Film, Television, and Digital Media*. B.S. (East Texas State), 1979; M.S. (Texas Christian University), 1982. Since 1980.

TRICIA JENKINS, *Professor*. B.A. (Ambassador University), 1997; M.A. (Western Michigan University), 2003; Ph.D. (Michigan State University), 2007. Since 2008.

CHARLES J. LAMENDOLA, *Associate Professor of Professional Practice in Film, Television, and Digital Media and Studio/Video Production Supervisor*. B.S. (Arkansas State University), 1981; M.S. (Ibid.), 1988. Since 1994.

MICHAEL MARTIN, *Associate Professor of Professional Practice in Film, Television, and Digital Media*. B.S. (Kansas State University), 1993; M.S. (University of Oklahoma), 2000; M.S. (Texas Christian University), 2009. Since 2009.

JOAN M. MCGETTIGAN, *Associate Professor*. B.A. (Temple University), 1981; M.A. (Pennsylvania State University), 1985; Ph.D. (Ibid.), 1994. Since 1997.

KIMBERLY OWCZARSKI, *Associate Professor*. B.A. (University of Michigan), 1997; M.A. (University of Texas at Austin) 2001; Ph.D. (Ibid.), 2008. Since 2010.

CHARITY ROBINSON, *Instructor*. B.A. (University of Texas at Arlington), 2011; M.A. (University of Florida), 2013. Since 2019.

R. COLIN TAIT, *Assistant Professor*. B.A. (University of Toronto), 2005; M.A. (University of British Columbia) 2007; Ph.D. (University of Texas at Austin), 2013. Since 2013.

JOEL TIMMER, *Associate Professor*. B.S. (Miami), 1988; J.D. (University of California-Los Angeles), 1993; Ph.D. (Indiana University), 2002. Since 2002.

Department of Journalism

JEAN MARIE BROWN, *Assistant Professor of Professional Practice in Journalism*. B.S. (Northwestern University), 1986; M.S. (Texas Christian University), 2013. Since 2013.

SHUGOFA DASTGEER, *Assistant Professor*. B.A. (Kabul University, Kabul, Afghanistan), 2009; M.A. (University of Oklahoma), 2013; Ph.D. (Ibid.), 2017. Since 2017.

MELITA GARZA, *Associate Professor*. B.A. (Harvard University), 1983; M.B.A. (University of Chicago), 2007; Ph.D. (University of North Carolina at Chapel Hill), 2012. Since 2012.

MELISAA HARRISON, *Assistant Professor of Professional Practice*. B.A. (Baylor University), 1995; M.A. (Columbia University), 2005. Since 2019.

JAIME LOKE, *Associate Professor*. B.A. (Indiana University). 2002; M.A. (University of Texas) 2005; Ph.D. (Ibid.), 2011. Since 2017.

UCHE ONYEBADI, *Associate Professor and Chair*. B.S. (University of Benin, Nigeria), 1981; M.S. (University of Lagos, Nigeria), 1983; M.A. (University of Missouri), 2005; Ph.D. (Ibid.), 2008. Since 2016.

DAXTON STEWART, *Professor*. B.A. (Southern Methodist University), 1994; J.D. (University of Texas at Austin), 1998; M.A. (University of Missouri), 2004; LL.M. (Ibid.), 2007; Ph.D. (Ibid.), 2009. Since 2008.

JOHN R. TISDALE, *Associate Professor*. B.S. (Lamar University), 1983; M.A. (Ibid.), 1988; Ph.D. (University of North Texas), 1996. Since 2002.

PATTY ZAMARRIPA, *Assistant Professor of Professional Practice*. B.S./B.A. (Texas Christian University), 2010; M.A. (University of California - Berkeley), 2013. Since 2018.

Department of Strategic Communication

SARAH ANGLE, *Instructor & Faculty Advisor for ROXO*. B.S. (Southern Illinois University), 2002; M.S. (Texas Christian University), 2004. Since 2018.

JOSH BENTLEY, *Associate Professor*, B.S. (John Brown University), 2002; M.S. (Oklahoma State University), 2010; Ph.D. (University of Oklahoma), 2013. Since 2015.

TAE RANG CHOI, *Assistant Professor*. B.A. (Michigan State University), 2011; M.A. (University of Texas at Austin), 2015; Ph.D. (Ibid.), 2019. Since 2020.

CATHERINE COLEMAN, *Associate Professor and Director of Graduate Studies, Strategic Communication*. B.A. (University of the South, Sewanee), 1998; B.A. (Ibid.), 1998; Ph.D. (University of Illinois), 2009. Since 2009.

ASHLEY ENGLISH, *Assistant Professor*. B.S. (University of North Texas), 2006; M.S. (Ibid.), 2008; Ph.D. (Ibid.), 2015. Since 2016.

AMISO GEORGE, *Associate Professor*. B.S. (Ohio University), 1986; M.A. (Ibid.), 1987; Ph.D. (Ibid.), 1992. Since 2005.

GUY GOLAN, *Associate Professor*. B.A. (University of Florida), 1992; M.A. (New York University), 1996; Ph.D. (University of Florida), 2003. Since 2020.

JONG-HYUOK JUNG, *Associate Professor*. B.A. (Korea University, Seoul, South Korea), 2001; M.A. (University of Florida), 2005; Ph.D. (University of Texas at Austin), 2009. Since 2012.

EUNSEON (PENNY) KWON, *Assistant Professor*. B.A. (Southern Illinois University), 2005; M.A. (Syracuse University), 2012; Ph.D. (University of Missouri), 2016. Since 2016.

JACQUELINE LAMBIASE, *Professor and Chair*. B.A. (North Texas State University), 1984; M.A. (University of North Texas), 1992; Ph.D. (University of Texas, Arlington), 1997. Since 2009.

STEVE LEVERING, *Instructor II*. B.S. (Samford University), 1990; M.S. (Texas Christian University), 2006. Since 2002.

KAREN LINDSEY, *Lecturer*. B.A. (University of Wisconsin - Milwaukee), 1994; M.A. (Mississippi College), 2010; Ph.D. (Azusa Pacific College), 2019. Since 2019.

LIANG (LINDSAY) MA, *Assistant Professor*. B.A. (Dalian University of Foreign Languages, Dalian, China), 2005; M.A. (New Mexico State University), 2011; Ph.D. (University of Maryland), 2016. Since 2016.

WENDY MACIAS, *Associate Professor*. B.A. (University of Minnesota), 1992; M.A. (University of Texas at Austin), 1997; Ph.D. (Ibid.), 2000. Since 2010.

RUSSELL MACK, *Instructor I*. B.A. (American University), 1990; J.D. (George Washington Law School), 2006. Since 2017.

JULIE O'NEIL, *Professor*. B.B.A. (University of Texas at Austin), 1992; B.J. (Ibid.), 1992; M.A. (St. Mary's University), 1997; Ph.D. (University of Utah), 2001. Since 2001.

BROXON SEARS, *Assistant Professor of Professional Practice*. B.F.A. (Kansas State University), 1977; M.F.A. (Texas A & M University-Commerce), 2012. Since 2008.

College of Education Directory

Frank Hernandez, *Dean*

Jan Lacina, *Associate Dean, Graduate Studies, Research, & Strategic Partnerships*

Cynthia Savage, *Associate Dean, Undergraduate Studies*

Gabriel Huddleston, *Chair, Department of Counseling, Societal Change and Inquiry and Director of the Center for Public Education and Community Engagement*

Ashley Tull, *Chair, Department of Educational Leadership & Higher Education*

Robin Griffith, *Chair, Department of Teaching and Learning Sciences*

Audra Guereca, *Assistant to the Dean*

Damian Patton, *Director of Laboratory Schools*

Audrey Sorrells, *Director of Alice Neeley Special Education Research and Service (ANSERS) Institute*

Molly Weinburgh, *Director of the Andrews Institute of Mathematics and Science Education*

Heather Doyle, *Director of Accreditation, Certification and Assessment*

Adam Hile, *Director of Field Experience and Community Partnerships*

Shay Nogic, *Academic Advisor*

CURBY ALEXANDER, *Associate Professor Professional Practice*. B.S. (Utah State University), 1985; M.A. (Colorado State University), 2001; Ph.D. (University of Virginia), 2009. Since 2012.

HAYAT ALHOKAYEM, *Associate Professor*. B.S. (American University of Beirut), 1996; M.Ed. (Ibid.), 2006; Ph.D. (Michigan State University), 2012. Since 2012.

TARYN ALLEN, *Associate Professor*. B.A. (Baylor University), 2003; M.S.Ed. (Ibid.), 2005; Ph.D. (University of Texas at Austin), 2012. Since 2019.

SUSAN E. ANDERSON, *Associate Professor*. B.S.Ed. (University of Virginia), 1983; M.Ed. (Ibid.), 1986; Ed.D. (Ibid.), 1992. Since 1992.

MICHELLE BAUML, *Associate Professor, Clotilda Winter Professor in Early Childhood Education*. B.S. (Texas A&M, College Station), 1992; M.Ed. (University of St. Thomas), 2004; Ph.D. (University of Texas at Austin), 2010. Since 2010.

VICTOR J. BOSCHINI JR., *Professor and Chancellor*. B.A. (Mount Union College), 1978; M.A. (Bowling Green University), 1979; Ed.D. (Indiana University), 1989. Since 2003.

STEPHANIE CUELLAR, *Postdoctoral Fellow*. B.A. (Midwestern State University), 2011; M.A. (Midwestern State University), 2013; Ph.D. (Texas Christian University), 2022. Since 2022.

AMBER ESPING, *Associate Professor*. B.M. (California State University), 1996; M.S. (Indiana University), 2007; Ph.D. (Ibid.), 2008. Since 2008.

MIRIAM EZZANI, *Assistant Professor*. B.S. (University of Southern California), 1999; M.S. (Ibid.), 2003; Ed.D. (Ibid.) 2009. Since 2019.

MICHAEL FAGGELLA-LUBY, *Professor*. B.A. (College of the Holy Cross), 1998; M.Ed. (University of Notre Dame), 2000; Ph.D. (University of Kansas), 2006. Since 2013.

SARAH QUEBEC FUENTES, *Associate Professor*. B.A. (Boston College), 1995; M.S.T. (Ibid.), 1997; Ed.D. (Montclair State University), 2009. Since 2009.

ROBIN GRIFFITH, *Professor*. B.S. (Texas Tech University), 1994; M.Ed. (Ibid.), 1998, Ph.D. (Ibid.), 2006. Since 2011.

CHRISTINE HALL, *Assistant Professor Professional Practice*. B.A. (University of California), 2001; M.Ed. (Seattle University), 2009; Ph.D. (University of Texas, Arlington), 2020. Since 2022.

GABRIEL HUDDLESTON, *Assistant Professor*. B.A. (Denison University), 1999; M.S. (Indiana University), 2009; Ph.D. (Indiana University), 2014. Since 2015.

JO BETH JIMERSON, *Associate Professor*. B.A. (Texas State University), 1995; M.Ed. (Trinity University), 1999; Ph.D. (University of Texas at Austin), 2011. Since 2011.

CEBRAIL KARAYIGIT, *Associate Professor*. B.S. (Inonu University), 2008; M.Ed. (University of Arkansas at Little Rock), 2013; Ph.D. (Duquesne University), 2017. Since 2022.

KATHLEEN KYZAR, *Associate Professor*. B.S. (Texas Christian University), 1999; M.A. (Gallaudet University), 2001; Ph.D. (University of Kansas), 2010. Since 2015.

JAN LACINA, *Professor and Associate Dean*. B.S. (Baylor University), 1993; M.Ed. (Texas Woman's University), 1996; Ph.D. (University of Kansas), 1999. Since 2005.

ENDIA LINDO, *Associate Professor*. B.S.S. (Northwestern University), 1998; M.Ed. (Vanderbilt University), 2000; Ph.D. (Vanderbilt University), 2007. Since 2017.

EMILY MICHERO, *Assistant Professor Professional Practice and Clinic Director*. B.S. (University of Texas at Arlington), 2003; M.Ed. (Texas Christian University), 2005; Ph.D. (The University of North Texas), 2016. Since 2021.

PABLO MONTES, *Assistant Professor*. B.S. (University of Wisconsin), 2016; M.A. (University of Texas at Austin), 2018; Ph.D. (University of Texas at Austin) 2022. Since 2022.

RONALD MYERS, *Assistant Professor Professional Practice*. B.A. (East Central University), 1984; M.Ed. (Baylor University), 1992; Pd.D. (University of Oklahoma), 2004. Since 2022.

STEVE PRZYMUS, *Assistant Professor*. B.S.Ed. (University of South Dakota), 1996; M.A. (University of Northern Iowa), 2008; Ph.D. (University of Arizona), 2016. Since 2016.

BRANDY QUINN, *Assistant Professor*. B.A. (Whittier College), 1998; M.A. (Loyola Marymount University), 2003; M.Ed. (California Lutheran University), 2005; Ph.D. (Stanford University), 2013. Since 2013.

CYNTHIA SAVAGE, *Associate Professor of Professional Practice and Associate Dean*. B.S. (Oklahoma State University), 1990; M.Ed. (University of Arkansas), 1992; Ph.D. (University of North Texas), 2007. Since 2006.

JENNIFER SMITH, *Assistant Professor of Professional Practice*. B.S.Ed. (Miami University), 2000; M.Ed. (Weber State University), 2005; Ph.D. (Texas Woman's University) 2014. Since 2017

AUDREY SORRELLS, *Professor*. B.A. (Southeastern Louisiana University), 1982; M.Ed. (Southeastern Louisiana University), 1987; Pd.D. (University of Florida), 1997. Since 2022.

MARCELLA STARK, *Associate Professor*. B.A. (Texas A&M), 1991; M.Ed. (University of North Texas); 1993; Ph.D. (Sam Houston State University), 2010. Since 2012.

J. MATTHEW SWITZER, *Associate Professor*. B.S. (Indiana State), 1989; M.A. (University of Northern Colorado), 2007; Ph.D. (University of Missouri), 2011. Since 2011.

ELIZABETH R. TAYLOR, *Professor*. B.S. (Abilene Christian University), 1975; M.A. (Sul Ross State University), 1979; Ph.D. (St. Mary's University), 1993. Since 1998.

ASHLEY TULL, *Professor of Professional Practice and Chair*. B.S. (University of Southern Mississippi), 1994; M.Ed. (University of Southern Mississippi), 1995; Ed.D. (Florida State University), 2004. Since 2021.

CATHRYN VAN KESSEL, *Associate Professor*. B.S. (University of British Columbia), 2000; B.S.Ed. (University of British Columbia), 2005; M.A. (University of British Columbia), 2004; Ph.D. (University of Alberta), 2016. Since 2022.

MOLLY WEINBURGH, *Professor*. B.A. (Agnes Scott College), 1974; M.A.T. (Emory University), 1980; Ph.D. (Ibid.), 1993. Since 2002.

Laboratory Schools

DAMIAN PATTON, *Director & Jean W. Roach Chair of Laboratory Schools*; M.Ed. (University of Texas at Arlington), 2007; Ed.D. (Texas Christian University), 2022. Since 2021.

RAUL CASTRO, *Instructor*. B.A. Kinesiology (University of Texas at Arlington), 2013.

ROBIN N. DAVIS, *Instructor*. B.F.A. (University of Texas, Arlington), 1974; B.S.Ed. (Texas Christian University), 1976; M.Ed. (University of North Texas), 1979. Since 1984.

NEELY DOUGLAS, *Instructor*. B.S.Ed. (Texas Christian University), 2009; M.Ed. (Ibid.), 2011. Since 2011.

CAROLINE HARPER, *Instructor*. B.A. (University of Texas Austin), 2005; M.Ed. (Texas Christian University), 2016. Since 2019.

JULIE HULCE, *Instructor*. B.F.A. (Texas Christian University), 1991. Since 2015.

RACHAEL KAUFFMAN, *Instructor*. B.S.Ed. (Oklahoma State University), 2001; M.S. (Texas Wesleyan University), 2016. Since 2018.

COURTNEY HEIGEL, *Instructor*. B.S. (Texas A & M), 2012; M.Ed. (Texas Christian University), 2014. Since 2018.

KAITLIN KOUNTZ, *Instructor*. B.S. (Texas A&M), 2012; M.Ed. (Texas Christian University), 2014. Since 2016.

ELIZABETH MIDDLETON, *Instructor*. B.S. (Texas A&M, College Station), 2003. Since 2008.

KIMBERLY PAYNE, *Assistant Director of Laboratory Schools*. B.S.Ed. (Texas Christian University), 1979; M.Ed (Ibid.), 1981. Since 1996.

MADELINE KING THOMAS, *Instructor*. B.S.Ed. (Texas Christian University), 1976; M.Ed. (Texas Woman's University), 1979. Since 1985.

TRiO Programs

LATRINA PARKER HALL, *Director of Ronald E. McNair Program*. Ph.D. (Saint Louis University), 2017; Masters (University of Nebraska at Omaha), 2009. Since 2021.

CYNTHIA MONTES, *Director of Student Support Services*. B.A. (Texas Christian University), 2005; M.Ed. (Texas Christian University), 2011. Since 2007.

College of Fine Arts Directory

Amy Hardison Tully, *Dean*

Lori Boormazian Diel, *Associate Dean for Research and Faculty Development*

Janace Bubonia, *Associate Dean for Academic Affairs* Kristen Queen, *Director of Academic Resource Center*

Carrie Franklin, *Assistant to the Dean*

Tyra Musoma, *Academic Advisor*

Diana Bueno, *Coordinator of Degree Certification*

School of Art

AMANDA ALLISON, *Associate Professor, Art Education*. B.A. (Louisiana State University), 1996; M.A. (Northwestern State University), 2000; Ph.D. (University of North Texas), 2008. Since 2006.

JAMIN AN, *Assistant Professor and Deedie Potter Rose Chair of Contemporary Art History*. B.A. (University of Virginia), 2009; M.A. (University of California, Los Angeles), 2013; Ph.D. (University of California Los Angeles), 2021. Since 2022.

KALEE APPLETON, *Assistant Professor, Photography*. B.F.A. (Texas Tech University), 2005; M.F.A. (Texas Woman's University), 2014. Since 2018.

NICK BONTRAGER, *Associate Professor of Art, New Media*. B.F.A. (University of Houston), 2008; M.F.A. (The Ohio State University), 2011. Since 2012.

LORI BOORNAZIAN DIEL, *Professor and Kay and Velma Kimbell Chair in Art History*. B.A. (Emory University), 1992; M.A. (Tulane University), 1996; Ph.D. (Ibid.), 2002. Since 2001.

JESSICA L. FRIPP, *Associate Professor, Art History*. B.A. (UC San Diego), 2002; M.A. (Williams College), 2005; Ph.D. (University of Michigan Ann Arbor), 2012. Since 2015.

ADAM FUNG, *Associate Professor, Painting*. B.F.A. (Western Washington University), 2005; M.F.A. (University of Notre Dame), 2008. Since 2013.

DAN JIAN, *Assistant Professor, Drawing*. B.F.A. (Temple University); M.F.A. (The Ohio State University). Since 2019.

DICK LANE, *Professor, Photography and Director of the School of Art*. B.F.A. (University of Texas at Arlington), 1983; M.F.A. (University of Florida), 1985. Since 1989.

RACHEL LIVEDALEN, *Associate Professor, Printmaking*. B.A. (University of Virginia), 2010; M.A. (University of Iowa), 2013; M.F.A. (University of Iowa), 2014. Since 2014.

MARY MBONGON NANGAH, *Instructor II, Art Education*. B.A. (University of Texas at Dallas), 2006; M.F.A. (Parsons, The New School for Design), 2009; Ph.D. (University of North Texas), 2015. Since 2018.

EDITH JANE RILEY-PEINADO, *Visual Resources Librarian and Instructor of Art History*. B.F.A. (Stephen F. Austin State University), 1974; M.A. (Southern Methodist University), 1983. Since 1983.

CHRIS POWELL, *Professor, Ceramics*. B.F.A. (Abilene Christian University), 1980; M.F.A. (Bradley University), 1983. Since 1984.

CAMERON SCHOEPP, *Professor, Sculpture*. B.F.A. (Pacific Lutheran University), 1984; M.F.A. (Texas Christian University), 1987. Since 2003.

WENDY MILA SEPPONEN, *Assistant Professor, Art History*. B.A. (Carlton College), 2006; M.A. (University of Toronto), 2009; PhD (University of Michigan), 2018. Since 2023.

School for Classical & Contemporary Dance

ELIZABETH GILLASPY, *Professor and Director of the SCCD*. B.B.A. (Texas Tech University), 1985. M.F.A. (Texas Christian University), 1991. Secondary Certification-Dance (Ibid.), 1995. Since 1990.

SUKI JOHN, *Professor*. B.F.A. (University of New Mexico), 1980; M.A. (New York University), 1991; Ph.D. (University of Connecticut), 2007. Since 2007.

NINA MARTIN, *Professor*. B.A. (Empire State College, State University of New York), 2006; M.F.A. (Texas Woman's University), 2008; Ph.D. (Ibid.), 2013. Since 2008.

SARAH NEWTON, *Instructor II in Dance*. B.F.A. (Sam Houston State University), 2005; M.F.A. (Texas Woman's University), 2008. Since 2017.

KEITH SAUNDERS, *Associate Professor of Professional Practice*. MFA (Hollins University), 2017. Since 2018.

JESSICA ZELLER, *Associate Professor of Dance*. B.S. (Butler University), 2000, M.F.A. (The Ohio State University), 2008, Ph.D. (The Ohio State University), 2012. Since 2012.

Design

JAN BALLARD, *Instructor, Graphic Design*. B.F.A. (University of Illinois at Urbana-Champaign), 1983. Since 2015.

YVONNE CAO, *Associate Professor, Visual Communication*. B.A. (Hunan Normal University), 2009; Exchange Program (Middle Tennessee State University), 2008; M.F.A. (Louisiana State University), 2012. Since 2014.

DUSTY CROCKER, *Professor of Professional Practice, Graphic Design*. B.F.A. (Texas Christian University), 1982; M.A. (Syracuse University), 1999; Ph.D. (Capella University), 2008. Since 2007.

DAVID P. ELIZALDE, *Associate Professor, Graphic Design*. B.F.A. (Texas Christian University), 2003; M.B.A. (Texas Christian University), 2007. Since 2016.

WILLIAM G. GALYEAN, *Instructor, Graphic Design*. B.A. (University of Southwestern Louisiana), 1962. Since 2021.

LEWIS A. GLASER, *Professor, Graphic Design and Chair of the Department of Design*. B.A. (Western Michigan University), 1977; M.F.A. (Syracuse University), 1988. Since 1987.

ALBERT MARICHAL, *Associate Professor, Interior Design*. B.S. (University of Houston), 1996; B.Arch (University of Houston) 1996; M.S. (Columbia University) 1997; M.Arch (Harvard) 1999. Since 2015.

MYOSHA MASTON, *Instructor, Interior Design*. B.S. (University of Texas at Arlington), 1998; M.S. (Ball State University), 2022. Since 2022.

TAMARA A. RICE, *Instructor, Interior Design*. B.A. (The Ohio State University), 2014. Since 2022.

AMY ROEHL, *Associate Professor, Interior Design, Interior Design Program Coordinator*. B.S. (Miami University), 1992; M.F.A. (The Art Institute of Chicago), 1996. Since 2007.

ALYSSA HUMPHRIES STEWART, *Associate Professor and Director of the Center for Lighting Education*. B.F.A. (Baylor University), 2004; M.F.A. (Parsons The New School for Design), 2007. Since 2015.

Fashion Merchandising

STEPHANIE BAILEY, *Senior Instructor, Fashion Merchandising*, B.S. (Texas Christian University), 1994; M.A. (Texas Woman's University), 2000. Since 2009.

NICOLE M. BETTINGER, *Instructor I, Fashion Merchandising*, B.S. (Texas Christian University), 1991; M.S. (Texas Woman's University), 2000. Since 2019 as Lecturer, since 2021 as Instructor I.

LESLIE BROWNING-SAMONI, *Instructor I, Fashion Merchandising*, B.S. (Syracuse University), 1994; M.A. (New York University), 2000. Since 2019.

JANACE E. BUBONIA, *Professor, Fashion Merchandising and Associate Dean for Academic Affairs in the College of Fine Arts*. B.S. (State University of New York at Oneonta), 1991; M.A. (Texas Woman's University), 1994; Ph.D. (Ibid.), 1998. Since 2000.

SALLY L. FORTENBERRY, *Professor, Fashion Merchandising*, Chair of the Department and *Director of Center for Merchandising Education and Research*. B.S. (Carson-Newman College), 1980; M.S. (Texas Woman's University), 1981; Ph.D. (Ibid.), 1985. Since 1989.

SHWETA REDDY, *Professor, Fashion Merchandising*. B.B.A. (Madras University, India), 2001; M.Sc. (Manchester Metropolitan University, United Kingdom), 2004; Ph.D. (Oregon State University), 2008. Since 2008.

JAY SANG RYU, *Associate Professor, Fashion Merchandising*. B.S. (Philadelphia University), 1994; M.S. (University of North Texas), 1996; Ph.D. (Oklahoma State University), 2010. Since 2014.

School of Music

ELISABETH ADKINS, *Professor of Violin*. B.M. (University of North Texas); M.M.A. (Yale University); M.M. (Yale University); D.M.A. (Yale University). Since 2014.

NEIL ANDERSON-HIMMELSPACH, *Associate Professor of Music Technology and Music Theory/Composition*. A.A. (Pierce College), 1997; B.M. (Pacific Lutheran University), 1999; M.M. (Central Michigan University), 2006; D.M.A. (Florida State University), 2009. Since 2015.

CHRISTOPHER ASPAAS, *Associate Professor of Music and Director of Choral Activities*. B.M. (St. Olaf College), 1995; M.M. (Michigan State University), 1997; PhD (Florida State University), 2004. Since 2015.

SEAN ATKINSON, *Director and Associate Professor of Music Theory*. B.M. (Furman University), 2004; M.M. (Florida State University), 2006; PhD (Florida State University), 2009. Since 2014.

DAVID BEGNOCHE, *Associate Professor of Trombone*. B.M. (New England Conservatory), 1990; M.M. (Manhattan School of Music), 1995; D.M.A. (University of North Texas), 2014. Since 2009.

MARTIN BLESSINGER, *Professor of Music (Theory/Composition)*. B.A. (State University of New York at Stony Brook), 2000; M.A. (Ibid.), 2003; D.M. (Florida State University), 2006. Since 2007.

GINA BOMBOLA, *Instructor II in Musicology*. B.M. (Vanderbilt University), 2008; M.M. (University of Nevada, Las Vegas), 2010; M.A. (University of North Carolina at Chapel Hill), 2013; Ph.D. (Ibid.), 2017. Since 2017.

MICHAEL BUKHMAN, *Assistant Professor, Collaborative Piano and Chamber Music*. B.M. (Oberlin College Conservatory of Music), 2005; M.M. (The Juilliard School), 2007; D.M.A. (Ibid.), 2012. Since 2018.

JON BURGESS, *Brass Division Chair, Professor of Trumpet*. B.M. (University of Illinois), 1978; M.M. (University of Kansas), 1980; D.M.A. (University of Arizona), 1988. Since 2000.

JOEY CARTER, *Instructor in Percussion, Music Theory, Jazz Studies*. B.M.E. (University of Texas at Arlington), 1991; M.M. (Texas Christian University), 2000.

STUART G. CHENEY, *Associate Professor of Musicology*. B.M. (University of North Texas), 1985; M.M. (University of North Texas), 1989; Ph.D. (University of Maryland), 2002. Since 2009.

LORI CHRIST, *Director of Music Preparatory Program and Instructor in Piano Pedagogy*. B.M. (Wells College); M.M. (Texas Christian University). Since 1985.

PAUL CORTESE, *Assistant Director for Operations*. B.M. (Syracuse University), 1989; M.M. (New England Conservatory), 1992; Ph.D. (Texas Christian University), 2018. Since 2005.

BLAISE J. FERRANDINO, *Professor and Chair of Music Theory and Composition*. B.M. (Ithaca College), 1980; M.M. (Syracuse University), 1982; D.M.A. (University of Hartford), 1990. Since 1990.

BOBBY R. FRANCIS, *Professor of Music and Director of Bands*. B.M.E. (Commerce), 1981; M.M.E. (Commerce), 1989. Since 2000.

MATTHEW R. GARRETT, *Assistant Director of Bands, Assistant Professor of Professional Practice in Music, Director of Athletic Bands*. B.A. (Texas Tech University), 2000; M.M. (Texas Christian University), 2004. Since 2015.

MIKHAIL MISHA GALAGANOV, *Professor of Viola and Chair of Strings Division*. B.M. (Jerusalem), 1994; Artist Certificate (Southern Methodist University), 1996; M.M. (Rice University), 1998; D.M.A. (Ibid.), 2003. Since 2000.

ANN M. GIPSON, *Associate Professor of Professional Practice in Music and Director of Piano Pedagogy*. B.M. (Eastern Illinois University), 1982; M.M. (University of Oklahoma), 1985; Ph.D. (Ibid.), 1992. Since 2005.

GEORGE (TREY) GUNTER, *Instructor II, Music Theory and Composition*. B.M.E. (Texas Christian University), 1995; M.M. (Ibid.), 1997. Since 2011.

GERMÁN AUGUSTO GUTIÉRREZ, *Professor/Director of Orchestral Studies and Director of the Center for Latin American Music*. Maestro en Musica (Tolima Conservatory), 1978; M.M. (University of Illinois), 1991; D.A. (University of Northern Colorado), 1997. Since 1996.

JULIETTE HERLIN, *Assistant Professor of Cello*. B.M. (Conservatoire National Supérieur de Musique de Paris); M.M. (Conservatoire National Supérieur de Musique de Paris); Graduate Diploma (The Juilliard School); D.M.A. (University of Southern California). Since 2022.

CECILIA LO-CHIEN KAO, *Assistant Professor of Professional Practice & Collaborative Piano Artist*. B.M. (National Taiwan Normal University), 2006; M.A. (Ibid.), 2009; M.M. (University of Texas at Austin), 2013; A.D. (Mercer University), 2015; D.M.A. (University of Colorado Boulder), 2019. Since 2019.

SAN-KY KIM, *Associate Professor of Voice and Opera*. B.A. (Australian National University), 1988; B.M. (Canberra Institute of the Arts, Australia), 1988; M.M. (Curtis Institute of Music), 1991; Professional Studies Diploma (Temple University), 1992; D.M.A. (Ibid.), 2004. Since 2005.

HAERIM (LIZ) LEE, *Assistant Professor in Violin*. B.M. (New England Conservatory); M.M. (Rice University); D.M.A. (University of Michigan). Since 2019.

YUAN XIONG LU, *Associate Professor of Double Bass*. B.M. (Shanghai Conservatory); M.M. (University of Texas at Austin). Since 2008.

COREY MACKAY, *Assistant Professor of Clarinet*. B.M. (Norther Arizona University); M.M. (University of Minnesota – Twin Cities); D.M.A. (College-Conservatory of Music, University of Cincinnati). Since 2020.

HAROLD MARTINA, *Professor of Professional Practice in Music and Pianist-in-Residence Institute of Fine Arts* (Medellin, Columbia); Academy of Music (Vienna, Austria). Since 1999.

TILL MACIVOR MEYN, *Professor of Music Theory and Composition*. B.A. (University of California, San Diego), 1993; M.M. (Indiana University), 1996; D.M.A. (University of Southern California), 2000. Since 2007.

KRISTEN QUEEN, *Director Academic Resource Center*. B.M. (University of Oklahoma), 2004; M.M. (Northwestern University), 2006; Ph.D. (Texas Christian University), 2018. Since 2006.

TWYLA ROBINSON, *Assistant Professor of Professional Practice in Voice*. B.M. (Centenary College of Louisiana); M.M. (Indiana University)

JAMES D. RODRIGUEZ, *Associate Director, Associate Professor of Voice & Voice Pedagogy and Chair of the Voice Division*. B.M. (Southern Methodist University); M.M. (University of Houston); D.M.A. (University of Houston)

LAURA SINGLETARY, *Associate Professor and Program Coordinator for Instrumental Music Education*. B.M. and B.M.E. (Florida State University); M.S. (University of Illinois); Ph.D. (Florida State University)

AMY STEWART, *Instructor I*. B.M. (Texas Christian University); M.M. (Texas Christian University); D.W.S. (Robert Webber Institute of Worship Studies)

HEATHER TEST, *Instructor of French Horn*. B.M. (University of North Texas); M.M. (Southern Methodist University)

SHAUNA THOMPSON, *Associate Director, Associate Professor of Flute and Chair of the Woodwind Division*. B.M. (Texas Tech University), 2008; M.M. (University of Cincinnati College-Conservatory of Music), 2010; D.M.A. (University of Cincinnati College-Conservatory of Music), 2012. Since 2013.

COREY TRAHAN, *Instructor in Voice*. B.M. (Louisiana State University), 1997; M.M. (University of Houston), 2000; D.M.A. (University of North Texas), 2012. Since 2019.

TAMÁS UNGÁR, *Professor of Music*. A.Mus.A., L.Mus.A. (Sydney Conservatorium, Australia), 1965; D.M. (Indiana University), 1983. Since 1978.

TIMOTHY D. WATKINS, *Associate Professor of Musicology*. B.M. (Samford University), 1987; M.M. (Southern Baptist Theological Seminary), 1990; M.M. (Florida State University), 1993; Ph.D. (Florida State University), 2001. Since 2009.

BRIAN WEST, *Professor of Music and Coordinator of Percussion*. B.M.E. (University of North Texas), 1992; M.A. (Indiana University of Pennsylvania), 1994; D.M.A. (University of Oklahoma), 2003. Since 2001.

BRIAN YOUNGBLOOD, *Associate Professor of Professional Practice in Music, Associate Director of Bands and Director of the Horned Frog Marching Band*. B.M.E. (Abilene Christian University), 1987; M.M. (East Texas State University), 1992. Since 1999.

Theatre

MICHELE ALFORD, *Costume Studio Manager*. B.F.A. (University of North Texas), 1995. Since 2002.

BRIAN CLINNIN, *Professor*. B.F.A. (University of Kansas), 1992; M.F.A. (Ibid.), 2004. Since 2008.

TRISTAN DECKER, *Assistant Professor of Professional Practice and Technical Director*. B.A. (University of Dallas), 1996; M. A. (Texas Woman's University), 2009. Since 2012.

JENNIFER ENGLER, *Professor and Chair of the Department*. B.F.A. (Emporia State University), 1995; M.F.A. (Michigan State University), 1998. Since 2003.

MURELL HORTON, *Associate Professor*. B.A. (Ottawa University), 1989; M.F.A. (Rutgers University), 1993. Since 2015.

JESSICA HUMPHREY, *Associate Professor*. B.F.A. (Western Carolina University), 2012. M.F.A. (San Diego State University), 2015. Since 2018.

IAN LOVEALL, *Assistant Professor*. A.A. (College of the Canyons), 2009; B.A. (California State University of Fresno), 2012; M.F.A. (University of Texas at Austin), 2015.

PENNY MAAS, *Associate Professor*. B.F.A. (Illinois Wesleyan University), 1987; M.F.A. (Virginia Commonwealth University), 2012. Since 2012.

LYDIA MACKAY, *Assistant Professor*. B.F.A. (Texas Wesleyan University), 1999; M.F.A. (Southern Methodist University), 2008. Since 2018.

HARRY PARKER, *Professor*. B.F.A. (Texas Christian University), 1980; M.A. (University of Kansas), 1982; Ph.D. (Ibid.), 1992. Since 2003.

AYVAUNN PENN, *Assistant Professor*. B.A. (Austin College), 2012; M.A. (Louisiana Tech University), 2015; M.F.A. (Columbia University), 2018. Since 2019.

KRISTA SCOTT, *Associate Professor*. B.F.A. (Emporia State University), 1983; M.F.A. (University of Minnesota), 1990. Since 2009.

ALAN SHORTER, *Professor and Associate Chair*. B.A. (Indiana University), 1978; M.F.A. (Minnesota State University at Mankato), 2001. Since 2006.

MICHAEL SKINNER, *Professor*. B.A. (West Texas State University), 1990; M.F.A. (University of Oklahoma), 1993. Since 1993.

SARAH TONEMAH, *Costume Technician*. B.F.A. (Moore College of Art and Design), 2009. Since 2013.

THOMAS J. WALSH, *Professor*. B.A. (San Diego State University), 1979; M.F.A. (University of Texas at Austin), 1982; Ph.D. (Ibid.), 1996. Since 1999.

PHILIP ZIELKE, *Scenic Studio Supervisor*. B.F.A. (Texas Christian University), 2006. Since 2006.

AddRan College of Liberal Arts Directory

Sonja Stephenson Watson, *Dean*

Ariane Balizet, *Associate Dean*

Muriel Cormican, *Associate Dean*

Peter M. Worthing, *Associate Dean*

Brandon Manning, *Faculty Diversity Advocate*

Ida N. Hernandez, *Director of AddRan Degree Certification*

Criminology and Criminal Justice

KENDRA BOWEN, *Associate Professor*. B.S.W. (Midwestern State University), 2005; M.A. and M.S. (University of Texas at Arlington), 2007; Ph.D. (Indiana University of Pennsylvania), 2011. Since 2014.

RONALD G. BURNS, *Professor*. B.S. (University of South Carolina), 1990; M.C.J. (Ibid.), 1993; Ph.D. (Florida State University), 1997. Since 1997.

SUSAN BRIE DIAMOND, *Associate Professor and Chair of the Department*. B.A. (University of Texas at Dallas), 2008; M.S. (Ibid.), 2010; Ph.D. (Ibid.), 2013. Since 2013.

PATRICK T. KINKADE, *Professor*. B.A. (University of California at Berkeley), 1981; M.A. (California State University at Los Angeles), 1983; Ph.D. (University of California at Irvine), 1990. Since 1990.

MICHELE MEITL, *Assistant Professor*. B.A. (University of California at Santa Barbara), 2002; J.D. (The Catholic University of America, Columbia School of Law), 2005; M.A. (Arizona State University), 2012; Ph.D. (University of Texas at Dallas), May 2017.

JOHNNY NHAN, *Professor and Associate Dean for Graduate Studies*. B.A. (University of California at Irvine), 1999; Ph.D. (Ibid.), 2008. Since 2008.

KATHERINE POLZER, *Associate Professor*. B.A. (University of Texas at Austin), 2003; M.S. (California State University at Long Beach), 2005; Ph.D. (University of Texas at Dallas), 2008. Since 2008.

BRAE CAMPION YOUNG, *Assistant Professor*. B.S. (Florida State University), 2012; M.S. (Florida State University), 2012; Ph.D. (Florida State University), 2020. Since 2020.

Economics

JOHN T. HARVEY, *Professor and Wright Chair in Economics*. B.A. (University of Tennessee), 1983; M.A. (Ibid.), 1986; Ph.D. (Ibid.), 1987. Since 1987.

English

ARIANE M. BALIZET, *Professor and Associate Dean*. B.A. (Pomona College), 2000; M.A. (University of Minnesota), 2003; Ph.D. (Ibid.), 2007. Since 2008.

DAVID COLÓN, *Associate Professor*. B.A. (CUNY Brooklyn College), 1997; Ph.D. (Stanford University), 2004. Since 2008.

JOSEPH DARDA, *Associate Professor*. B.A. (University of Washington), 2009; M.A. (University of Connecticut), 2012; Ph.D. (Ibid.), 2015. Since 2015.

ANNE FREY, *Associate Professor*. B.A. (Williams College), 1994; M.A. (Johns Hopkins University), 1998; Ph.D. (Ibid.), 2002. Since 2005.

THERESA STROUTH GAUL, *Professor and Director of the TCU Core Curriculum*. B.A. (St. Catherine University), 1990; M.A. (University of Wisconsin at Madison), 1992; Ph.D. (Ibid.), 1998. Since 1999.

ANN L. GEORGE, *Professor*. B.A. (Michigan State University), 1979; M.F.A. (University of North Carolina at Greensboro), 1981; Ph.D. (Pennsylvania State University), 1997. Since 1997.

DANIEL JUAN GIL, *Professor and Director of Graduate Studies*. B.A. (Cornell University), 1993; M.A. (Johns Hopkins University), 1997; Ph.D. (Ibid.), 2000. Since 2005.

JASON HELMS, *Associate Professor*. B.S. (The Master's College), 2003; M.A. (San Francisco State University), 2006; Ph.D. (Clemson University), 2010. Since 2012.

CHARLOTTE HOGG, *Professor and Director of Composition*. B.A. (University of Nebraska), 1993; M.A. (Oregon State University), 1996; Ph.D. (University of Nebraska), 2001. Since 2001.

LINDA K. HUGHES, *Addie Levy Professor of Literature*. B.A. (Wichita State University), 1970; M.A. (University of Missouri), 1971; Ph.D. (Ibid.), 1976. Since 1988.

CARMEN KYNARD, *Professor and Lillian Radford Chair in Rhetoric and Composition*. B.A. (Stanford University), 1993; M.A. (City University of New York at Lehman College), 2000; Ph.D. (New York University), 2005. Since 2019.

ALEX R. LEMON, *Professor*. B.A. (Macalester College), 2001; M.F.A. (University of Minnesota), 2004. Since 2010.

CARRIE SHIVELY LEVERENZ, *Professor*. B.A. (Mt. Vernon Nazarene University), 1981; M.A. (St. Bonaventure University), 1985; Ph.D. (Ohio State University), 1994. Since 2000.

BRAD LUCAS, *Associate Professor*. B.A. (University of Illinois), 1992; M.A. (Texas State University), 1994; M.L.I.S. (University of Texas at Austin), 1996; Ph.D. (University of Nevada), 2002. Since 2003.

BRANDON MANNING, *Associate Professor*. B.A. (Jackson State University), 2007; M.A. (Ohio State University), 2010; Ph.D. (Ibid.), 2014. Since 2018.

STACIE MCCORMICK, *Associate Professor*. B.S. (Mississippi State University), 1999; M.A. (University of Southern Mississippi), 2003; (Graduate Center-City University of New York), 2011. Since 2014.

MONA NARAIN, *Professor*. B.A. (Panjab University), 1985; M.A. (University of Bombay), 1987; Ph.D. (State University of New York, Stony Brook), 1994. Since 2007.

MATTHEW PITT, *Associate Professor and Director of Undergraduate Studies*. B.A. (Hampshire College), 1997; M.F.A. (New York University), 2000. Since 2012.

SARAH RUFFING ROBBINS, *Lorraine Sherley Professor of Literature*. B.A. (University of North Carolina), 1974; M.A. (Ibid.), 1975; Ph.D. (University of Michigan), 1993. Since 2009.

CURT NELSON RODE, *Senior Instructor*. B.A. (University of Illinois), 1988; M.A. (University of Tennessee), 1992; Ph.D. (Ibid.), 1998. Since 2003.

KAREN M. STEELE, *Professor*. B.A. (St. Olaf College), 1988; M.A. (University of Texas at Austin), 1992; Ph.D. (Ibid.), 1996. Since 1996.

Geography

SARAH SCHWARTZ, *Instructor*. B.A. (Hamilton College), 1999; M.A. (University of South Carolina), 2005; Ph.D. (Ibid.), 2011. Since 2018.

KYLE WALKER, *Associate Professor*. B.A. (Oregon), 2005; M.A. (Minnesota), 2007; Ph.D. (Ibid.) 2011. Since 2012.

History

JODI M. CAMPBELL, *Professor*. B.A. (University of Nebraska), 1990; M.A. (Tulane University), 1992; Ph.D. (University of Minnesota), 1999. Since 2002.

GREGG CANTRELL, *Professor and Erma and Ralph Lowe Chair in Texas Studies*. B.A. (Texas A&M University), 1979; M.A. (Ibid.), 1980; Ph.D. (Ibid.), 1988. Since 2003.

SAMUEL DAVIS, *Assistant Professor*. B.A. (University of Tennessee), 2010; M.A. (Indiana University), 2013; Ph.D. (Temple University), 2019. Since 2020.

ALAN GALLAY, *Professor and Lyndon Baines Johnson Chair in American History and Director of Graduate Studies*. B.A. (Florida), 1978; M.A. (Georgetown), 1981; Ph.D. (Ibid.), 1986. Since 2012.

HANAN HAMMAD, *Associate Professor*. B.A. (Cairo University), 1989; M.A. (University of Texas at Austin), 2004. Since 2009.

ALEX HIDALGO, *Associate Professor and Director of Undergraduate Studies*. B.A. (United States International University), 1997; M.A. (San Diego State University), 2006; Ph.D. (University of Arizona), 2013. Since 2013.

TODD M. KERSTETTER, *Professor*. B.A. (Duke University), 1986; M.A. (University of Nebraska), 1992; Ph.D. (Ibid.), 1997. Since 2000.

WILLIAM MEIER, *Associate Professor and Chair of the Department*. B.A. (Miami University of Ohio), 2002; M.A. (University of Wisconsin), 2004; Ph.D. (University of Wisconsin), 2009.

AARON NAVARRO, *Associate Professor*. B.A. (University of Texas), 1996; M.A. (Harvard University), 1999; Ph.D. (Harvard University), 2004. Since 2018.

REBECCA SHARPLESS, *Professor*. B.A. (Baylor University), 1978; M.A. (Ibid.), 1983; Ph.D. (Emory University), 1993. Since 2006.

GENE A. SMITH, *Professor and Director of the Center for Texas Studies*. B.A. (Auburn University), 1984; M.A. (Ibid.), 1987; Ph.D. (Ibid.), 1991. Since 1994.

PETER A. SZOK, *Professor*. B.S. (Georgetown University), 1990; M.A. (Tulane University), 1994; Ph.D. (Ibid.), 1998. Since 2002.

KARA DIXON VUIC, *LCpl Benjamin Whetstone Schmidt Professor of War, Conflict, and Society in 20th Century America*. B.A. (Marshall University), 1999; M.A. (Indiana University), 2001; Ph.D. (Ibid.), 2006. Since 2015.

STEVEN E. WOODWORTH, *Professor*. B.A. (Southern Illinois University), 1982; Ph.D. (Rice University), 1987. Since 1997.

PETER M. WORTHING, *Professor and Associate Dean*. B.A. (Trinity College), 1987; M.A. (University of Hawaii at Manoa), 1991; Ph.D. (Ibid.), 1995. Since 2002.

Modern Language Studies

MARIE-MADELEINE SCHEIN, *Senior Instructor*. B.A. (Université Paul Valéry-Montpellier), 1981; M.A. (Ibid.), 1982; M.A. (University of Colorado), 1985; Ph.D. (University of North Texas), 1994. Since 2006.

SONJA S. WATSON, *Professor and Dean*. B.S. (College of William and Mary), 1995; M.A. (University of Tennessee), 2000; Ph.D. (University of Tennessee), 2005. Since 2020.

SCOTT G. WILLIAMS, *Associate Professor*. B.A. (Stephen F. Austin State University), 1977; M.A. (Universität Hamburg), 1989; Ph.D. (University of Texas at Austin), 1999. Since 2005.

Philosophy

BLAKE E. HESTIR, *Professor*. B.A. (Texas Christian University), 1988; M.A. (Florida State University), 1996; Ph.D., (Ibid.), 1998. Since 1998.

Political Science

RALPH G. CARTER, *Professor*. B.A. (Midwestern State University), 1974; M.A. (Ohio State University), 1977; Ph.D. (Ibid.), 1980. Since 1982.

CARRIE LIU CURRIER, *Associate Professor and Chair of the Department*. B.A. (University of Michigan), 1996; M.A. (University of Arizona), 1998; Ph.D. (Ibid.), 2004. Since 2004.

MANOCHEHR DORRAJ, *Professor*. B.A. (University of Texas at Austin), 1975; M.A. (Ibid.), 1979; Ph.D. (Ibid.), 1984. Since 1990.

JAMES M. SCOTT, *Herman Brown Chair & Professor*. B.A. (Weaton College), 1986; M.A. (Northern Illinois University) 1988, Ph.D. (Ibid) 1993, since 2011.

Religion

DAVID P. MOESSNER, *Professor and A. A. Bradford Chair in Religion*. B.A. Princeton University, 1971; M. Div. (Ibid.), 1975; M.A. Oxford University (1980); Dr. Theol. 1983 (University of Basel), Since 2012.

Sociology and Anthropology

CAROL THOMPSON, *Professor and Chair of the Department*. B.A. (Louisiana State University), 1983; M.A. (Ibid.), 1985; Ph.D. (Ibid.), 1988. Since 1992.

Spanish and Hispanic Studies

FRANCIS KOMLA AGGOR, *Professor*. B.A. (University of Ghana), 1984; M.A. (University of Western Ontario, London, Canada), 1987; Ph.D. (University of California, Los Angeles), 1992. Since 2008.

Harris College of Nursing & Health Sciences Directory

Christopher Watts, *Marilyn & Morgan Davies Dean*

Lynn Flahive, *Associate Dean for Health Sciences*

Suzy Lockwood, *Associate Dean for Nursing & Nurse Anesthesia*

Emily Lund, *Associate Dean for Research*

Lynn Jackson, *Assistant Dean for Strategic Initiatives*

Linda Humphrey, *Coordinator, Degree Certification*

June Seely, *Assistant to the Dean*

MICHAEL D. JUSTISS, *Professor and Director of Occupational Therapy Doctorate Program*. B.S. (University of Pittsburgh), 1993; B.S. (Ibid.), 1993; B.S. (Ibid), 1995; M.O.T (Duquesne University), 2000; Ph.D. (University of Florida at Gainesville), 2005. Since 2023.

YAN ZHANG, *Associate Professor of Professional Practice*. B.M. (Beijing University of Traditional Chinese Medicine), 1996; M.M. (China Academy of Chinese Medical Sciences), 1999; Ph.D. (Old Dominion University), 2005. Since 2019.

Davies School of Communication Sciences & Disorders

DANIELLE M. BRIMO, *Associate Professor*. B.S. (Florida State University), 2004; M.A. (Ibid.), 2006; Ph.D. (Ibid.), 2012. Since 2012.

TRACY BURGER, *Assistant Professor of Professional Practice*. B.S. (University of North Texas), 1994; M.S.-SLP (Ibid.), 1998; M.S., Audiology (Ibid.), 2000. Since 2015.

ANTHONY DILOLLO, *Professor and Director of Davies School of Communication Sciences & Disorders*. B.S. (University of Western Australia), 1986; M.S. (University of Mississippi), 1996; Ph.D. (University of Memphis), 2001. Since 2020.

TERESA DRULIA, *Assistant Professor*. B.S. (James Madison University), 1993; M.S. (Ibid), 1994; Ph.D. (Ibid), 2016. Since 2017.

LYNN K. FLAHIVE, *Assistant Professor; Director of Miller Speech & Hearing Clinic; and Associate Dean for Health Sciences, Harris College*. (B.S. (Marquette University), 1977; M.S. (Ibid.), 1978. Since 1991.

TERESA DENNETT GONZALEZ, *Assistant Professor of Professional Practice*. B.S. (Texas Woman's University), 1976; M.S. (Ibid.), 1985. Since 1992.

KAREN HENNINGTON, *Assistant Professor of Professional Practice*. B.S. (Texas Christian University), 1996; M.S. (Ibid.), 1998. Since 2014.

EMILY LUND, *Associate Professor; and Associate Dean for Research, Harris College*. B.A. (Vanderbilt University), 2006; M.S. (Vanderbilt University School of Medicine), 2008; Ph.D. (Vanderbilt University School of Medicine), 2013. Since 2014.

LAUREL T LYNCH, *Assistant Professor of Professional Practice*. B.S. (Baylor University), 1983; M.S. (Texas Christian University), 1984. Since 2012.

IRMGARD PAYNE, *Assistant Professor of Professional Practice*. B.A. (University of Texas, Arlington), 1986; M.S. (Texas Christian University), 1994. Since 2003.

JEAN F. RIVERA PEREZ, *Associate Professor*. B.A. (Universidad de Puerto Rico en Humacao), 2004; M.S. (Universidad del Turabo, Gurabo, Puerto Rico), 2009; Ph.D. (University of Cincinnati), 2016. Since 2017.

AHMED RIVERA-CAMPOS, *Assistant Professor*. B.A. (Universidad de Puerto Rico Recinto de Humacao), 2005; M.S. (Universidad del Turabo, Gurabo, Puerto Rico), 2009; Ph.D. (University of Cincinnati), 2016. Since 2017.

JENNIFER BARBER WATSON, *Professor*. B.S. (Northern Arizona University), 1976; M.A. (Northwestern University), 1979; Ph.D. (Ibid.), 1981. Since 1982.

CHRISTOPHER WATTS, *Professor; and Marilyn & Morgan Davies Dean, Harris College*. B.S. (University of South Alabama), 1994; Ph.D. (Ibid.), 1998. Since 2008.

LYNITA A. YARBROUGH, *Assistant Professor of Professional Practice*. B.S. (Texas Christian University), 1994; M.S. (Ibid.), 1996. Since 2012.

Kinesiology

JOSHUA C. CARR, *Assistant Professor*. B.S. (University of Oklahoma), 2013; M.S. (Ibid.), 2015; Ph.D. (Ibid.), 2019. Since 2020.

ASHLYNE ELLIOTT, *Assistant Professor of Professional Practice*. B.S. (University of Houston), 2015; M.S. (Ibid), 2017; Ph.D. (Baylor University), 2021. Since 2022.

PHIL ESPOSITO, *Associate Professor of Professional Practice and Director, Undergraduate Program*. B.S. (Truman State University), 2005; M.S. (Missouri State University at Springfield), 2008; Ph.D. (University of Michigan, Ann Arbor), 2012. Since 2012.

MELISSA JENSEN, *Assistant Professor of Professional Practice*. B.S. (Utah State University), 1998; M.S. (California State University), 2006; Ph.D. (Oklahoma State University), 2022. Since 2022.

STEPHANIE JEVAS, *Professor of Professional Practice and Program Director, Athletic Training Program*. B.S. (Texas A&M University), 1993; M.A. (Western Michigan University), 1994; Ph.D. (University of Houston), 2004. Since 2012.

ADAM KING, *Associate Professor*. B.A. (Concordia), 1998; M.S. (University of Pennsylvania), 2008; Ph.D. (Ibid), 2013. Since 2016.

RYAN R. PORTER, *Assistant Professor*. B.S. (Brigham Young University), 2008; M.S. (Utah State University), 2012; Ph.D. (University of South Carolina), 2018. Since 2020.

DEBORAH J. RHEA, *Professor*. B.S. (University of Texas, Arlington), 1980; M.Ed. (University of Houston) 1990; Ed.D. (Ibid), 1995. Since 1999.

MEENA SHAH, *Professor, Director, Graduate Program*. B.Sc. (Robert Gordon's Institute of Technology), 1982; Ph.D. (University of London), 1986. Since 2001.

ROBYN B. TROCCHIO, *Associate Professor*. B.S. (University of Florida), 2007; M.S. (Barry University), 2009; Ph.D. (Florida State University), 2013. Since 2019.

PETER WEYAND, *Professor, Chair of the Department of Kinesiology*. B.A. (Bates College), 1983; M.S. (Bridgewater State College), 1988; Ph.D. (University of Georgia), 1992. Since 2023.

KRISTINA WHITE, *Assistant Professor of Professional Practice and Clinical Coordinator of Athletic Training*. B.S. (University of Miami), 2013; M.S. (Baylor University), 2015; Ph.D. (Ibid), 2019. Since 2022.

Nursing

LAVONNE ADAMS, *Associate Professor*. A.S. (Kettering College of Medical Arts), 1985; B.S.N. (Wright State University), 1988; M.S. (Andrews University), 1992; Ph.D. (Ibid.), 2003. Since 2004.

GINA K. ALEXANDER, *Professor*. B.S.N. (Oklahoma Baptist University), 1998; M.S. Public Health (University of North Carolina at Chapel Hill), 2003; M.S.N. (University of Virginia), 2008; Ph.D. (Ibid.), 2009. Since 2010.

KATHY BAKER, *Professor*. B.S.N. (Baylor University), 1981; M.S.N. (Texas Woman's University), 1988; Ph.D. (University of Texas), 2003. Clinical Nurse Specialist (APRN, BC). Since 2007.

LATASHA BAKER, *Assistant Professor of Professional Practice*. B.S.N. (Texas Christian University), 2007; M.S.N. Psych-Mental Health Nurse Practitioner (University of Texas at Arlington), 2016; D.N.P. (Texas Christian University), 2021. Since 2021.

DOT BARTELL, *Assistant Professor of Professional Practice and Clinical Placement Coordinator*. B.S. (Frostburg State University), 1991; M.A.T. (University of South Carolina), 1994; B.S.N. (Texas Christian University), 2011; M.S.N. (Ibid), 2016. Since 2016.

LORI BORCHERS, *Assistant Professor*. B.S.N. (University of Kansas), 1991; M.S.N. (Georgia State University), 1997; Ph.D. (Texas Christian University), 2021. Since 2014.

VICKI BROOKS, *Assistant Professor of Professional Practice; Director, Advanced Practice Registered Nurse Programs; and Coordinator, Family Nurse Practitioner Program*. B.S.N. (Texas Christian University), 1994; M.S.N. (University of Texas at Arlington), 2002; D.N.P. (Texas Woman's University), 2016; Family Nurse Practitioner. Since 2018.

SHARON CANCLINI, *Assistant Professor of Professional Practice*. A.S. (College of Alameda), 1978; Diploma (Samuel Merritt Hospital), 1979; B.S.N. (University of Texas Health Science Center), 1982; M.S. (Wright State University School of Nursing), 1987. Since 2005.

DENNIS CHEEK, *Abell-Hanger Professor of Gerontological Nursing*. A.S. (Yuba College), 1979; B.S.N. (California State University), 1982; M.S. (University of California), 1988; Ph.D. (University of Nevada), 1996. Since 2003.

GLENDA DANIELS, *Professor*. B.S.N. (University of Texas), 1975; M.S.N. (Texas Woman's University), 1994; Ph.D. (University of Texas at Arlington), 2009. Since 2009.

CAITLIN KIESTER DODD, *Assistant Professor of Professional Practice and Assessment and Evaluation Coordinator*. B.S.N. (Texas Christian University), 2005; M.S.N. (Ibid.), 2010; D.N.P. (Abilene Christian University), 2020. Since 2010.

SUSAN FIFE, *Associate Professor of Professional Practice*. B.S.N. (Texas Christian University), 1991; M.S.N. (State University of New York at Stony Brook), 1997; D.N.P. (Frontier Nursing University), 2019; Certificate of

Nurse-Midwifery (Parkland School of Nurse-Midwifery), 1995. Since 2014.

SHELLEY FORD, *Assistant Professor of Professional Practice*. B.S.N. (University of Mary-Hardin-Baylor), 2001; M.S.N. (Walden University), 2011; D.N.P. (American Sentinel University), 2020. Since 2021.

PAMELA JEAN FRABLE, *Associate Professor*. A.B. (University of Chicago), 1976; N.D. (Case Western Reserve University), 1982. Since 2000.

ASHLEY FRANKLIN, *Associate Professor; and Polly & Tex Rankin Endowed Professor of Nursing*. B.S.N. (Texas Christian University), 2003; M.S.N. (Ibid), 2010; Ph.D. (Oregon Health and Science University), 2014. Since 2014.

ABBIE GARCIA, *Assistant Professor of Professional Practice*. B.S.N. (The University of Texas at Arlington), 2010; M.S.N. (Waldon University), 2018. Since 2022.

JEN GASSETT, *Assistant Professor of Professional Practice*. B.S. (Tarleton State University), 2000; B.S.N. (Texas Christian University), 2012; M.S.N. (Texas Woman's University), 2021. Since 2022.

SHEILA GRIFFIN, *Assistant Professor of Professional Practice*. B.S.N. (Texas Christian University), 1985; M.S.N. (University of Texas at Arlington), 1990. Since 2012.

KIRSTIN GUINN, *Assistant Professor of Professional Practice*. B.S.N. (Tarleton State University), 2009; M.S.N. (Texas Woman's University, Dallas), 2015. Since 2017.

TRACY HICKS, *Assistant Professor of Professional Practice and Coordinator, Psychiatric Mental Health Nurse Practitioner Program*. A.D.N. (Kilgore Junior College), 2004; B.S.N. (University of Texas at Tyler), 2010; M.S.N. Family Nurse Practitioner (University of Texas at Arlington), 2013; M.S.N. Psych-Mental Health Nurse Practitioner (Ibid.), 2015; D.N.P. (Frontier Nursing University), 2017. Since 2020.

MAGGIE HIGGINS, *Assistant Professor of Professional Practice*. B.S.N. (University of Texas at Arlington), 2009; M.S.N. (Capella University), 2018. Since 2022.

CAROL HOWE, *Associate Professor; Director, Nursing Research & Scholarship; and Paula R. and Ronald C. Parker Endowed Professor of Nursing*. B.A. (University of Pennsylvania), 1983; B.S.N. (Ibid), 1985; M.S.N. (Ibid), 1988; Ph.D. (University of Texas at Arlington), 2014. Since 2014.

LYNNETTE HOWINGTON, *Associate Professor of Professional Practice, and Director, Undergraduate Nursing*. B.S.N. (Texas Christian University), 1994; M.S.N. (Old Dominion University), 2003. D.N.P. (Texas Christian University), 2011. Women's Health Nurse Practitioner. Since 2007.

LINDA HUMPHRIES, *Assistant Professor of Professional Practice; Coordinator, Clinical Nurse Specialist Program; and Director, Center for Collaborative Practice*. B.S.N. (University of Texas at Arlington), 1980; M.S.N. (Texas Christian University), 2004; D.N.P. (Ibid.), 2014. Clinical Nurse Specialist in Medical-Surgical Nursing. Since 2014.

OTEKA JACKSON-CENALES, *Assistant Professor of Professional Practice*. B.S.N. (East Texas Baptist University), 2007; M.S.N. (Loyola University), 2012; D.N.P. (Walden University), 2018. Since 2018.

ANN JOHNSON, *Associate Professor*. B.S.N. (Houston Baptist University), 1984; M.S.N. (University of Alabama School of Nursing), 1991; Ph.D. (University of Alabama at Birmingham), 2016. Since 2017.

MICHELLE KIMZEY, *Associate Professor*. B.S. (Baylor University), 1991; M.S. (Texas Woman's University), 2010; Ph.D. (University of Texas), 2014. Since 2017.

SUZY LOCKWOOD, *Professor, Associate Dean for Nursing & Nurse Anesthesia and Director of Center for Oncology Education and Research*. B.S.N. (Texas Christian University), 1983; M.S.N. (University of Texas at Arlington), 1994; Ph.D. (Ibid.), 2001. Since 1997.

MIRIAM MARSHALL, *Assistant Professor of Professional Practice*. Diploma in Nursing (Providence School of Nursing, Mobile), 1980; B.S.N. (Drexel University, Philadelphia), 2009; M.S.N. (Ibid.), 2012. Since 2013.

BEKKI MCINTOSH, *Assistant Professor of Professional Practice*. A.A.S.N. (Tarrant County College), 1991; B.S.N. (Texas Woman's University), 1998; M.S.N. (The University of Texas at Arlington), 2002; D.N.P. (Texas Christian University), 2017. Since 2022.

ANGELA NJENGA, *Assistant Professor*. B.S.N. (The University of Nairobi), 2005; M.S. Health Care Administration (Stevens-Henager College), 2009; Ph.D. (University of Utah), 2018. Since 2018.

JODI PATTERSON, *Assistant Professor*. B.S.N. (University of Virginia), 1991; M.S.N. (Louisiana State University Medical Center), 1998; Ph.D. (University of Texas at Tyler), 2018. Since 2019.

KIMBERLY POSEY, *Associate Professor of Professional Practice; and Director, Graduate Nursing*. B.S.N. (Texas Woman's University), 1997; M.S.N. (University of Texas at Arlington), 2000; D.N.P. (Texas Christian University), 2013; Adult and Geriatric Nurse Practitioner. Since 2016.

LISA RINKE, *Assistant Professor of Professional Practice*. A.D.N. (Macomb Community College), 1983; B.S.N. (University of Michigan), 1987; M.S.N. (University of Detroit Mercy), 2014; D.N.P. (Western Kentucky University), 2016. Since 2022.

JANIE RANEL ROBINSON, *Associate Professor*. B.S.N. (Southern University and A&M College at Baton Rouge), 1996; M.S.N. (Ibid.), 2002; Ph.D. (Ibid.), 2009. Since 2009.

BETH ROGERS, *Assistant Professor*. B.S.N. (Texas Christian University), 2001; M.S.N. (Ibid.), 2015; Ph.D. (Ibid.), 2021. Since 2022.

SARAH LIBBY ROSONET, *Assistant Professor of Professional Practice*. B.A.H. (Berry College), 2005; M.S.N. (Augusta University), 2012; D.N.P. (Quinnipiac University), 2020. Since 2022.

ELIZABETH RYAN, *Assistant Professor of Professional Practice*. A.N.P. (Carrington College), 2011; B.S.N. (Grand Canyon University), 2013; M.S.N. (Grand Canyon University), 2017. Since 2022

LISETTE SALEH, *Assistant Professor*. B.S. Psychology (Texas Christian University), 2002; A.D.N. (Tarrant County College), 2005; B.S.N. (Texas Christian University), 2008; M.S.N. (Texas Woman's University), 2012; Ph.D. (University of Texas at Tyler), 2017; Certified Inpatient Obstetric Nurse. Since 2012.

ASHLIE SEALE, *Assistant Professor of Professional Practice*. A.A.A. (Tarrant County College), 2010; B.S.N. (Texas Christian University), 2012; M.S.N. (Ibid.), 2016. Since 2016.

LAURA THIELKE, *Assistant Professor of Professional Practice; and Director, Health Professions Learning Center*. B.S.N. (Valparaiso University), 1980; M.S.N. (Texas Woman's University), 1988. Since 2009.

MEGHAN TRAHANT, *Assistant Professor of Professional Practice*. B.S.N. (Texas Christian University), 1998; M.S.N. Adult Clinical Nurse Specialist (Ibid.), 2005. Since 2021.

DANIELLE WALKER, *Associate Professor*. B.S.N. (Texas Christian University), 2003; M.S.N. (Texas Woman's University), 2009. Ph.D. (University of Texas Medical Branch-Galveston), 2015. Since 2009.

JODIE WEATHERLY, *Associate Professor of Professional Practice*. B.S.N. (West Texas A&M University), 1993; M.S.N. (Ibid.), 2005; D.N.P. (American Sentinel University), 2021. Since 2007.

SUSAN MACE WEEKS, *Professor, Vice Provost for Academic Affairs, TCU, and Executive Director, Health Innovation Institute at TCU*. B.S.N. (William Jewell College), 1983; M.S. (Texas Woman's University), 1986; D.N.P. (Texas Christian University), 2009; Clinical Nurse Specialist in Psych-Mental Health Nursing. Since 1994.

LEIGH ANNE WHEELER, *Assistant Professor of Professional Practice*. L.V.N. (Baptist School of Nursing), 2007; A.D.N. (Carrington College), 2009; B.S.N. (University of Texas at Arlington), 2015; M.S.N. (Ibid.), 2017; D.N.P. (Grand Canyon University), 2021. Since 2022.

TAMMIE WILLIAMS, *Assistant Professor of Professional Practice*. B.S.N. (University of Detroit Mercy), 1997; M.S. Health Care Education (Ibid.), 2000; M.S.N. Family Nurse Practitioner (University of Michigan), 2011; D.N.P. (Texas Christian University), 2021. Since 2021.

LESLIE ZIMPELMAN, *Assistant Professor*. B.S. (Wake Forest University), 2003; B.S.N. (Texas Christian University), 2005; M.S.N. (Walden University), 2013. Since 2014.

School of Nurse Anesthesia

RONALD S. ANDERSON, *Associate Professor of Professional Practice*. B.S. (University of Texas Austin), 1981; M.D. (Texas Tech Health Sciences Center School for Medicine), 1987. Since 2008.

GREGORY B. COLLINS, *Assistant Professor of Professional Practice*. B.S.N. (West Texas A&M University), 2002; M.S.N. (Texas Christian University), 2006; D.N.P. (Texas Christian University), 2018. Since 2021.

MARGARET ROSEANN DIEHL, *Professor of Professional Practice*. B.S.N. (University of Texas at Austin), 1988; M.H.S. (Texas Wesleyan University), 1997; D.N.P. (Texas Christian University), 2010; Ph.D. (Texas Woman's University, Houston), 2016. Since 2010.

CLAY FREEMAN, *Assistant Professor of Professional Practice*. B.S.N. (University of Texas at Tyler), 2009; DNP-A (Texas Christian University), 2014. Since 2022.

VAUGHNA GALVIN, *Associate Professor of Professional Practice*. B.S.N. (Barton College), 1997; M.A. (East Carolina University), 2002; M.S.N.A. (Texas Christian University), 2005; D.N.A.P. (Virginia Commonwealth University), 2011. Since 2014.

MONICA BASHOR JENSCHKE, *Associate Professor of Professional Practice*. B.S.N. (University of Texas Health Science Center San Antonio), 1987; M.H.S. (Texas Wesleyan University), 1994; Ph.D. (University of North Texas Health Science Center), 2009. Since 2012.

JENNIFER OAKES, *Associate Professor of Professional Practice*. B.S.N. (University of Phoenix), 2008; M.S.N.A. (Virginia Commonwealth University), 2010; D.N.A.P. (Virginia Commonwealth University), 2011. Since 2020.

J. DRU RIDDLE, *Associate Professor of Professional Practice*. B.S.N. (Virginia Commonwealth University), 1999; M.S.N. (Old Dominion University), 2002; D.N.P. (Texas Christian University), 2011; Ph.D. (Medical University of South Carolina), 2014. Since 2012.

JACKIE ROWLES, *Associate Professor of Professional Practice*. B.S.N. (Ball State University), 1982; M.B.A. (University of Memphis), 1988; B.A. (University of Missouri), 1993; A.N.P. Post-master's certificate (Ball State University), 2013; D.N.P. (Barry University), 2016. Since 2020.

ROBYN WARD, *Associate Professor of Professional Practice*. B.S.N. (Montana State University), 1990; M.S. Nurse Anesthesia (Georgetown University), 2000; Ph.D. (Rush University), 2018. Since 2019.

Social Work

SH'NIQUA ALFORD, *Assistant Professor of Professional Practice and Director, BSW Program*. B.S.S.W. (Texas Christian University), 2005; M.S.W. (University of Texas at Arlington), 2014. Since 2018.

NADA ELIAS-LAMBERT, *Associate Professor and Chair of the Department of Social Work*. B.A. (University of Texas at Austin), 2001; M.S.W. (University of Texas at Arlington), 2004; Ph.D. (Ibid.), 2013. Since 2013.

D. LYNN JACKSON, *Professor of Professional Practice and Director of Field Education, and Assistant Dean for Strategic Initiatives, Harris College*. B.S.W. (University of South Florida), 1979; M.S.W. (Florida State University), 1989; Ph.D. (Ibid.), 2005. Since 2013.

AESHA JOHN, *Associate Professor*. B.A. (Gujarat University), 1992; M.S.W. (Maharaja Sayajirao University), 1995; Ph.D. (Oklahoma State University), 2011. Since 2015.

KATIE LAUVE-MOON, *Associate Professor*. B.S. (Louisiana Tech University), 2007; M.S.W. (Baylor School of Social Work), 2010; M.Div. (George W. Truett Theological Seminary), 2011; Ph.D. (Tulane University), 2017. Since 2017.

ASHLEY PALMER, *Assistant Professor*. B.S. (Washburn University), 2007; M.S.W. (Ibid.), 2008; Ph.D. (University of Kansas), 2019. Since 2022.

TENISHA POLK-POTTS, *Assistant Professor of Professional Practice*. B.A. (University of North Texas), 2010. M.S.S.W. (University of Texas at Arlington), 2012. Since 2022.

MARY TWIS, *Assistant Professor and Director, MSW Program*. B.S.S.W. (Texas State University), 2007; M.S.W. (University of Texas at Arlington), 2010; Ph.D. (Ibid.), 2018. Since 2018.

TEE TYLER, *Associate Professor*. B.S.W. (Brigham Young University), 2006; M.S.W. (University of Utah, 2008; Ph.D. (University of Texas at Austin), 2016. Since 2016.

College of Science & Engineering Directory

Michael B. Kruger, *Dean*

J. Richard Rinewalt, *Associate Dean for Undergraduate Studies*

Timothy Barth, *Associate Dean for Administration and Graduate Programs*

Valerie Springer, *Director of Degree Certification*

Christina Cowley, *Assistant to the Dean, and Finance Administrator*

Biology

GIRIDHAR R. AKKARAJU, *Professor*. B.S. (University of Bombay, India), 1985; Ph.D. University of Pittsburgh School of Medicine), 1997. Since 2002.

MATTHEW CHUMCHAL, *Professor and Director of the Pre-Health Professions Institute*. B.S. (Southwestern University), 2001; M.S. (Texas Christian University), 2003; Ph.D. (University of Oklahoma), 2007. Since 2007.

MICHAEL CHUMLEY, *Professor*. B.S. (University of Wyoming), 1987; M.S. (Ibid.), 1994; Ph.D. (University of Colorado Health Sciences Center), 2000. Since 2008.

MEREDITH CURTIS, *Instructor II and Associate Director Pre-Health Professions Institute*. B.A. (Baylor), 2001; Ph.D. (University of Washington), 2009. Since 2015.

MARK DEMAREST, *Instructor II*. B.S. (California State), 1997; M.S. (California Polytechnic), 2000; Ph.D. (University of California), 2009. Since 2015.

MATTHEW M. HALE, *Associate Professor and Director of Graduate Studies*. B.Sci. (Roehampton University), 2001; M.Sc. (Imperial College), 2002; Ph.D. (University of Sheffield), 2007. Since 2014.

MARLO JEFFRIES, *Associate Professor and Chair of the Department*. B.S. University of Nebraska at Omaha, M.S. (Ibid.), 2005; Ph.D. University of Nebraska Medical Center, 2010. Since 2013.

CLARK A. JONES, *Senior Instructor*. B.S. (Texas Christian University), 1989; M.S. (Ibid.), 1992; Ph.D. (Southern Methodist University), 1997. Since 2008.

LAURA LUQUE, *Instructor II*. B.S. (Florida International University), 1996; M.S. (University of Texas, Dallas), 2001; Ph.D. (University of Texas, Dallas), 2005. Since 2015.

SHAUNA M. MCGILLIVRAY, *Professor, Associate Director Pre-Health Professions Institute, and Associate Chair of the Department*. B.A. (Concordia College), 1999; Ph.D. (University of California-San Diego), 2006. Since 2009.

MIKE MISAMORE, *Associate Professor*. B.S. (University of Wisconsin), 1989; M.S. (College of Charleston, S.C.), 1993; Ph.D. (Louisiana State University), 1998. Since 2003.

MICHAEL SAWEY, *Senior Instructor*. B.S. (Texas Wesleyan University), 1994; M.S. (Texas Christian University), 2008. Since 2008.

MIKAELA STEWART, *Assistant Professor*. B.S. (University of Central Arkansas), 2007; Ph.D. (Texas A&M University), 2013. Since 2017.

DEAN WILLIAMS, *Professor*. B.A. (Coe College), 1988; M.S. (University of Alabama at Huntsville), 1991; Ph.D. (Purdue University), 2000. Since 2007.

FLOYD L. WORMLEY JR, *Professor and Dean of Research*. B.S. (Tulane University), 1995; M.S. (Louisiana State University Health Sciences Center, New Orleans), 1998; Ph.D. (Ibid.), 2001. Since 2019.

Chemistry & Biochemistry

ONOFRIO ANNUNZIATA, *Professor*. M.S. (University of Naples), 1997; Ph.D. (Texas Christian University), 2001. Since 2004.

JEFFERY L. COFFER, *Professor*. B.S. (Wofford College), 1982; M.S. (University of Wisconsin-Milwaukee), 1985; Ph.D. (Ibid.), 1987. Since 1990.

HEIDI A. CONRAD, *Instructor I*. B.S. (University of Wisconsin at River Falls), 2004; Ph.D. (University of North Texas), 2013. Since 2022.

SERGEI V. DZYUBA, *Professor*. Diploma in Chemistry (Odessa State University), 1998; Ph.D. (Texas Tech University), 2002. Since 2006.

JULIE A. FRY, *Instructor II*. B.A. (Rice University), 1989; Ph.D. (Texas Christian University), 2011. Since 2009.

KAYLA N. GREEN, *Professor*. B.S. (Tarleton State University), 2003; Ph.D. (Texas A&M University), 2007. Since 2010.

BENJAMIN JANESKO, *Professor*. B.S. (Allegheny College), 1999; Ph.D. (Carnegie Mellon University), 2005. Since 2009.

DAVID E. MINTER, *Professor*. B.S. (Stephen F. Austin State University), 1968; M.S. (Ibid.), 1970; Ph.D. (University of Texas at Austin), 1974. Since 1980.

JEAN-LUC G. MONTCHAMP, *Professor*. Diploma of Engineering in Chemistry (School of Industrial Chemistry, France), 1989; Ph.D. (Purdue University), 1992. Since 1998.

YOUGHUA RYU, *Associate Professor and Director of Graduate Studies*. B.S. (Pohang University of Science and Technology, Korea), 1991; M.S. (Ibid.), 1993; Ph.D. (Texas A&M University), 2004. Since 2007.

BEN SHERMAN, *Assistant Professor*. B.S. (University of Michigan), 2008; Ph.D. (Arizona State University), 2013. Since 2017.

ERIC E. SIMANEK, *Robert A. Welch Professor of Chemistry and Chair of the Department*. B.S. (University of Illinois), 1991; Ph.D. (Harvard University), 1996. Since 2010.

Computer Science

TERESA ABI-NADER DAHLBERG, *Provost and Vice Chancellor for Academic Affairs*. B.S. (University of Pittsburgh), 1984; M.S. (North Carolina State University), 1990; Ph.D. (Ibid.), 1993. Since 2019.

LIRAN MA, *Professor*. B.S.E.E. (Hunan University), 1999; M.S. (Beijing Jiaotong University), 2003; D.Sc. (George Washington University), 2008. Since 2010.

ANTONIO SANCHEZ-AGUILAR, *Associate Professor*. B.S. (Universidad Iberoamericana), 1975; M.S. (George Washington University), 1977; D.Sc. (Ibid.), 1983. Since 2005.

MICHAEL C. SCHERGER, *Associate Professor and Chair of the Department*. B.S. (University of Akron), 1991; B.S. (Ibid.), 1992; M.S. (Kent State University), 1995; Ph.D. (Ibid.), 2005. Since 2012.

BINGYANG WEI, *Assistant Professor*. B.E. (Ocean University of China), 2010; Ph.D. (University of Alabama) 2015. Since 2018.

Engineering

TERESA ABI-NADER DAHLBERG, *Provost and Associate Vice Chancellor for Academic Affairs*. B.S. (University of Pittsburgh), 1984; M.S. (North Carolina State University), 1990; Ph.D. (Ibid.), 1993. Since 2019.

JOHN R. FANCHI, *Matthews Professor of Petroleum Engineering*. B.S. (University of Denver), 1974; M.S. (University of Mississippi), 1975; Ph.D. (University of Houston), 1977. Since 2009.

CUILING (SUE) GONG, *Professor*. B.S. (Tsinghua University), 1990; M.S., (University of Minnesota), 1993; M. S. (Massachusetts Institute of Technology), 1996; Ph.D. (Ibid.), 1999. Since 2011.

JAMES HUFFMAN, *Associate Professor of Professional Practice*. B.S. (Texas A&M University), 1994; M.S. (University of Texas at Dallas), 1997; Ph.D. (Ibid.), 2001. Since 2019.

MORGAN KIANI, *Professor*. B.S. (University of Texas at Arlington), 2005; M.S., (Ibid.), 2006; Ph.D., (Ibid.), 2009. Since 2011.

EFSTATHIOS E. MICHAELIDES, *Moncrief Professor of Engineering*. B.A. (Oxford University, 1977); M.S. (Brown University, 1979); Ph.D. (Ibid.) 1980; M.A. (Oxford University), 1983. Professional Engineer - Texas and Louisiana. Since 2011.

TRISTAN J. TAYAG, *Professor*. B.S.E.E. (Johns Hopkins University), 1986; M.S.E.E. (Ibid.); 1987; Ph.D. (University of Virginia), 1991. Since 1997.

R. STEPHEN WEIS, *Professor and Chair of the Department*. B.S.E.E. (U. S. Naval Academy), 1979; M.S. (Georgia Institute of Technology), 1984; Ph.D. (Ibid.), 1987. Since 1992. Professional Engineer-Texas.

Environmental Science

VICTORIA J. BENNETT, *Associate Professor and Director of Graduate Studies*. B.S. (University of Leeds), 1997; M.S. (Ibid.), 1998; Ph.D. (Ibid), 2004. Since 2013.

MICHELE L. BIRMINGHAM, *Assistant Professor of Professional Practice*. B.S. (Texas Christian University), 2003; M.S. (Ibid), 2005. Since 2023.

GEHENDRA KHAREL, *Assistant Professor*. B.S. (University of Nebraska), 2007; M.S. (University of Texas at Arlington), 2010; Ph.D. (University of North Dakota), 2015. Since 2019.

BRENDAN LAVY, *Assistant Professor*. B.A. (University of North Texas), 1998; M.S. (Texas State University), 2013; Ph.D. (Texas State University), 2017. Since 2020.

RHIANNON G. MAYNE, *Associate Professor and Curator of the Oscar and Juanita Monnig Meteoritic Collection and Chair of Meteoritics and Planetary Science*. B.S. (Edinburgh University), 2002; Ph.D. (University of Tennessee), 2008. Since 2009.

MICHAEL C. SLATTERY, *Professor, Director of the TCU Institute for Environmental Studies and Chair of the Department*. B.A. (University of the Witwatersrand), 1988; M.S. (University of Toronto), 1990; Ph.D. (Oxford University), 1994. Since 1998.

Geology

HELGE ALSLEBEN, *Associate Professor and Director of Graduate Studies*. B.S. (University of Hamburg), 1996; M.S. (San Jose State University), 2000; Ph.D. (University of Southern California), 2005. Since 2005.

ARTHUR B. BUSBEY, *Associate Professor and Chair of the Department*. B.S. (University of Texas at Austin), 1974; M.A. (Ibid.), 1977; Ph.D. (University of Chicago), 1982. Since 1985.

RICHARD A. DENNE, *Professor of Professional Practice, Hunter Enis Chair of Petroleum Geology and Director of the TCU Energy Institute*. B.S.

(University of Iowa), 1985; Ph.D. (Louisiana State University), 1990. Since 2016.

R. NOWELL DONOVAN, *Emeritus, Charles B. Moncrief Professor*. B.Sc. (Newcastle University), 1966; Ph.D. (Ibid.), 1972. Since 1986.

ESAYAS GEBREMICHAEL, *Assistant Professor*. B.S. (Addis Ababa University) 2000; M.S. (Ibid.), 2005; Ph.D. (Western Michigan University), 2018. Since 2019.

RICHARD E. HANSON, *Herndon Professor*. B.S. (Oklahoma State University), 1975; M.S. (Ibid.), 1977; Ph.D. (Columbia University), 1983. Since 1988.

OMAR T. HARVEY, *Associate Professor*. B.S. (University of the West Indies), 2001; M.S. (University of Florida), 2004; Ph.D. (Texas A&M University), 2010, Since 2015.

JOHN HOLBROOK, *Professor*. B.S. (University of Kentucky), 1985, M.S. (University of New Mexico), 1992, Ph.D. (Indiana University), 1992. Since 2011.

XIANGYANG (CHEYENNE) XIE, *Associate Professor*. B.S. (Lanzhou University, China), 1998; M.S. (Northwest University, China), 2001; Ph.D. (University of Wyoming), 2007. Since 2013.

Mathematics

JOSÉ R. CARRIÓN, *Associate Professor*. B.S. (University of Puerto Rico), 2004; Ph.D. (Purdue University), 2013. Since 2015.

ZE-LI DOU, *Associate Professor*. B.A. (City University of New York, Queens College), 1987; Ph.D. (Princeton University), 1993. Since 1994.

GREG FRIEDMAN, *Professor and Chair of the Department*. B.S. (Brown University), 1996; M.S. (New York University), 1998; Ph.D. (Ibid.), 2001. Since 2005.

GEORGE T. GILBERT, *Associate Professor*. B.A. (Washington University), 1979; Ph.D. (Harvard University), 1984. Since 1990.

EMILY HERZIG, *Instructor II*. B.A. (University of Texas at Dallas), 2008; M.S. (University of Texas at Dallas), 2010. Since 2016.

DENNIS LEDIS, *Instructor II*. B.S. (Florida International University), 2003; M.S. (University of Florida), 2007; Ph.D. (Ibid.), 2011. Since 2014.

EUN HYE LEE, *Assistant Professor*, B.S. (Ewha Womans University, Seoul), 2011; M.S. (Ibid), 2013; Ph.D. (University of Illinois at Chicago), 2019. Since 2023.

SCOTT NOLLET, *Professor*. B.S. (University of Minnesota), 1985; Ph.D. (University of California, Berkeley), 1994. Since 2000.

ALLISON C. OWEN, *Senior Instructor*. B.A. (Kansas Wesleyan University), 1981; M.L.S. (Texas Women's University), 1983; M.A. (Ibid.), 1987. Since 2000.

EFTON PARK, *Professor*. B.S. (University of Oklahoma), 1983; Ph.D. (State University of New York, Stony Brook), 1988. Since 1992.

CORNELIS J. POTGIETER, *Associate [SV1] Professor*. B.Sc. (Rand Afrikans University), 2004; B.Sc. (University of Johannesburg), 2005; B.Sc. (Ibid.), 2007; Ph.D. (Ibid.), 2009. Since 2019

IGOR P. PROKHORENKOV, *Associate Professor*. B.S. (Moscow State University), 1991; Ph.D. (Rice University), 1997. Since 1998.

KEN RICHARDSON, *Professor and Director of Graduate Studies*. B.A. (Rice University), 1986; M.A. (Ibid.), 1989; Ph.D. (Ibid.), 1993. Since 1994.

KRISTI RITTBY, *Instructor I*. B.A. and B.S. (Texas Christian University), 1997; M.S. (University of Texas-Arlington) 2000. Since 2002.

LOREN SPICE, *Associate Professor*. B.S. (Towson University), 1998; M.S. (University of Chicago), 2000; Ph.D. (Ibid.), 2004. Since 2009.

SUSAN G. STAPLES, *Associate Professor*. B.S. (Case Western Reserve University), 1983; Ph.D. (University of Michigan), 1988. Since 1995.

DEREK TOMLIN, *Instructor I*. B.A. (Texas A&M University), 2011, Ph.D. (University of Texas at Arlington), 2018. Since 2020.

DREW TOMLIN, *Instructor I*. B.A. (Hendrix College), 2010; M.S. (University of North Texas), 2012; Ph.D. (Ibid.), 2016. Since 2017.

QIAO ZHANG, *Associate Professor*. B.S. (Shandong University), 1996; M.S. (Ibid.), 1998; Ph.D. (Columbia University), 2003. Since 2008.

Nutritional Sciences

SAMANTHA DAVIS, *Associate Professor of Professional Practice*. B.S. (University of Wisconsin), 1988; M.S. (Texas Woman's University), 1992. Since 2013.

REBECCA DORITY, *Associate Professor of Professional Practice*. B.S. (University of Maine), 1999; M.S. (Tufts University) 2001. Since 2007.

KELLY FISHER, *Assistant Professor of Professional Practice*. B.S. (Texas Christian University), 2006; M.S. (University of Nebraska at Lincoln), 2008; D.C.N. (Rutgers University), 2020. Since 2020.

GINA J. HILL, *Associate Professor, and Chair of the Department*. B.S. (Texas Tech University), 1998; M.S. (Ibid.), 1999; Ph.D. (Ibid.), 2003. Since 2003.

ELISA MORALES MARROQUÍN *Assistant Professor* B.S. (Universidad Autónoma de Nuevo León), 2013; M.S. (Baylor University), 2015; Ph. D. (Ibid.), 2018. Since 2022.

ANNE D. VANBEBER, *Professor*. B.S. (Texas Tech University), 1979; M.S. (Texas Woman's University), 1982; Ph.D. (Ibid.), 1991. Since 1992.

JADA L. WILLIS, *Assistant Professor and Director of Graduate Studies*. B.S. (Texas A & M University), 2008; M.S. (Texas Tech University) 2011; Ph.D. (Ibid), 2015. Since 2015.

Physics & Astronomy

KAT A. BARGER, *Associate Professor*. B.S. (Western Washington University), 2006; M.S. (University of Wisconsin at Madison), 2008; M.A. (Ibid.), 2009; Ph.D. (Ibid.), 2012. Since 2014.

RICHARD BONDE, *Instructor II*. B.S. (Wichita State University), 2012; M.S. (University of Texas at Arlington), 2015; Ph.D. (Ibid.), 2018. Since 2019.

MIA SAUDA BOVILL, *Assistant Professor*. B.S. (University of Maryland), 2004; M.S. (Ibid.) 2006; Ph.D. (Ibid.) 2011. Since 2018.

HANA M. DOBROVOLNY, *Associate Professor*. B.Sc. (University of Winnipeg), 1997; M.A. (Bryn Mawr College), 2000; Ph.D. (Duke University), 2008. Since 2012.

PETER M. FRINCHABOY III, *Professor and Director of Graduate Studies*. B.S. (California State University), 2000; M.S. (University of Virginia), 2002; Ph.D. (Ibid.), 2006. Since 2009.

ZYGMUNT KAROL GRZYCZYNSKI, *W. A. "Tex" Moncrief Jr. Professor*. M.S. (Gdansk University), 1982; Ph.D. (Ibid.), 1987. Since 2010.

DOUGLAS INGRAM, *Senior Instructor*. B.A. (University of Texas at Austin), 1990; M.Sc. (University of Washington), 1991; Ph.D. (Ibid.), 1996. Since 1996.

MICHAEL B. KRUGER, *Professor and Dean*. B.S. (State University of New York), 1985; M.A. (University of California at Berkeley), 1987; Ph.D. (Ibid), 1992. Since 2021.

ANTON NAUMOV, *Associate Professor*. B.Sc. (University of Tennessee), 2005; Diploma in Chemical Physics (Kazan State University, Russia), 2006; M.S. (Rice University), 2008; Ph.D. (Ibid), 2011. Since 2015.

C. MAGNUS L. RITTBY, *Professor*. B.S. (University of Sussex), 1980; Ph.D. (University of Stockholm), 1985. Since 1990.

YURI M. STRZHEMECHNY, *Associate Professor and Chair of the Department*. M.S. (Khrakiv Polytechnic University), 1988; M.Ph. (City University of New York), 1997; Ph.D. (Ibid), 2000. Since 2005.

Psychology

TIMOTHY M. BARTH, *Professor and Associate Dean*. B.S. (St. Bonaventure University), 1979; M.S. (Wesleyan University), 1982; Ph.D. (University of Texas at Austin), 1986. Since 1990.

GARY W. BOEHM, *Professor*. B.A. (Utah State University), 1989; M.S. (University of Connecticut), 1992; Ph.D. (Ibid.), 1996. Since 1999.

BRENTON GRANT COOPER, *Associate Professor*. B.S. (University of New Mexico), 1993; Ph.D. (University of Utah), 2003. Since 2007.

CATHY R. COX, *Professor and Director of Graduate Studies*. B.A. (University of Colorado, Colorado Springs), 2000; M.A. (Ibid.), 2004; Ph.D. (University of Missouri), 2009. Since 2009.

NAOMI V. EKAS, *Professor*. B.A. (University of California, Davis), 2005; M.A. (University of Notre Dame), 2007; Ph.D. (Ibid.), 2009. Since 2011.

SARAH E. HILL, *Professor*. B.A. (University of Wisconsin-Milwaukee), 2000; Ph.D. (University of Texas at Austin), 2006. Since 2008.

DANICA KNIGHT, *Professor*. B.M. (Southern Methodist University), 1988; M.S. (Texas Christian University), 1990; Ph.D. (Ibid.), 1992. Since 2019.

KEVIN KNIGHT, *Professor, Saul B. Sells Chair of Psychology and Director of the Institute of Behavioral Research*. B.A. (Southern Methodist University), 1985; M.A. (Ibid.), 1988; Ph.D. (Texas Christian University), 1991. Since 2018

KENNETH J. LEISING, *Professor*. B.S. (Texas Christian University), 2003; M.A. (UCLA), 2004; Ph.D. (Ibid.), 2008. Since 2009.

CHARLES G. LORD, *Professor*. B.A. (University of Rhode Island), 1976; Ph.D. (Stanford University), 1980. Since 1987.

MAURICIO R. PAPINI, *Professor*. Licentiate (University of Buenos Aires), 1976; Ph.D. (University of San Luis, Argentina), 1985. Since 1990.

ANNA INGEBORG PETURSDOTTIR, *Associate Professor and Chair of the Department*. B.A. (University of Iceland), 1996; M.A. (Western Michigan University), 2004; Ph.D. (Ibid.). Since 2006.

S. K. UMA TAUBER, *Associate Professor*. B.A. (Augustana College), 2004; M.A. (University of Colorado), 2007; Ph.D. (Colorado State University), 2010. Since 2013.

Ranch Management

KERRY L. CORNELIUS, *Assistant Director of the Ranch Management Program and Burnett Ranches Professor*. B.S. (Tarleton State University), 1985; Ranch Management Program (Texas Christian University), 1986; M.S. (Tarleton State University), 1995. Since 1995.

Courses

ACCT - Accounting

ACCT 55153 - Financial Statement Analysis (3)

3 hours. Prerequisite: Enrollment in the MAc program; or ACCT 30273 and credit for or concurrent enrollment in ACCT 40253; or instructor permission. The analysis and use of information contained in corporate financial statements by equity and credit analysts, management, and auditors, including an understanding of the limitations and inadequacies of published financial statements.

ACCT 55200 - Business Intelligence and Accounting Analytics (1.5)

Prerequisites: Enrollment in the MAc program; or ACCT 30273 and credit for or concurrent enrollment in ACCT 40253; or instructor permission. Business Intelligence & Accounting Analytics combines financial and operational data with mining tools to improve the timeliness and quality of inputs to decision processes. It encompasses both top-down (confirmatory or hypothesis driven) analysis using traditional statistical techniques and bottom-up (exploratory) analysis using database and machine learning techniques to discover regularities, relations, or local structure/patterns that are at first unknown. The topics and related methods discussed include information retrieval and enterprise reporting, classification, predictive modeling, clustering, association rules mining, and social network analysis. The application of these methods are illustrated using modern software tool via examples, homework assignments and group term projects.

ACCT 55250 - Seminar in Current Assurance Topics (1.5)

1.5 hours. Prerequisite: Enrollment in the MAc program; or ACCT 30273 and credit for or concurrent enrollment in ACCT 40253; or instructor permission. This course includes advanced problems and research in the application of auditing standards; internal control evaluations; audits of accounting information systems; and auditor's ethical, legal, and reporting obligations.

ACCT 55253 - Business Combination and Advanced Topics (3)

3 hours. Prerequisites: Enrollment in the MAc program; or ACCT 30273 and credit for or concurrent enrollment in ACCT 40253; or instructor permission. Coverage of financial reporting issues associated with combinations of business organizations, including consolidations, inter-company transactions, and re-measurement of foreign-currency-denominated financial statements. This course also includes deeper investigation of financial reporting topics covered in previous courses as well as topics beyond the scope of previous courses.

ACCT 55303 - Taxation of Business Entities (3)

3 hours. Prerequisite: Enrollment in the MAc program; or ACCT 30303; or instructor permission. Provides an overview of the tax laws related to corporations and flow-through entities. Includes deeper investigation of financial reporting topics covered in previous courses as well as topics beyond the scope of previous courses.

ACCT 55350 - Seminar in Current Tax Topics (1.5)

1.5 hours. Prerequisite: Enrollment in the MAc program; or ACCT 30303 and credit for or concurrent enrollment in ACCT 55303; or instructor permission. Examines major features of US and international tax systems, and analyzes the tax proposals and policies that are likely to dominate debate in the next decade.

ACCT 55450 - Moral Reasoning in Accounting (1.5)

1.5 credits. Prerequisites: Enrollment in the MAc program; or ACCT 30273 and credit for or concurrent enrollment in ACCT 40253; or permission of the instructor. Addresses moral reasoning and decision making in an accounting context. Tools for addressing ethical dilemmas are addressed from a personal and organizational framework. Case studies are used to develop moral reasoning skills.

ACCT 55460 - Ethics for Accounting Professionals (1.5)

1.5 credits. Prerequisites: Enrollment in the MAc program; or ACCT 30273 and credit for or concurrent enrollment in ACCT 40253; or permission of the instructor. This course is designed to further enhance students' ethical decision-making in relation to issues faced by accounting professionals. The course focuses on ethical reasoning and

decision-making, integrity, objectivity, independence, professionalism and other core values of the accounting profession.

ACCT 55550 - Seminar in Current Advisory Topics (1.5)

1.5 hours. Prerequisite: Enrollment in the MAc program; or ACCT 30273 and credit for or concurrent enrollment in ACCT 40253; or instructor permission. This course examines current topics in the professional services of advisory and valuation. Specifically, we discuss valuation of business and the contributing factors to business valuation including market reactions, economic changes, and financial reporting requirements. Emphasis is placed in developing students' ability to synthesize information and effectively communicate decisions in writing.

ACCT 60010 - Financial Reporting (1.5)

1.5 credit hours. A study of the fundamental concepts of financial accounting and reporting by business entities in accordance with generally accepted accounting principles. The course approaches the material from the perspective of the financial statement user rather than the financial statement preparer. Therefore, emphasis is placed on the use and interpretation of information contained in business financial statements by managers, investors, and creditors.

ACCT 60011 - Accounting Fundamentals (1)

This course introduces the concepts and terminology of accounting and financial reporting for modern business enterprises. This course will help students learn to analyze and interpret accounting information for use in making decisions about organizations. Students will learn to analyze the accounting reports to assess how well they are performing and to identify major strengths and weaknesses revealed by their financial reports. Students will also practice problem-solving, critical thinking, and communication skills that are necessary to use accounting information, to form conclusions about business activities, and to communicate these conclusions to others.

ACCT 60020 - Accounting for Managerial Planning and Control (1.5)

1.5 credit hours. Prerequisite: ACCT 60010. A study of the basic concepts, measures, techniques, and approaches of managerial accounting. The emphasis is on understanding and developing accounting and economic concepts for decision making within profit-making and not-for-profit organizations related to such topics as short-term and long-term planning, performance measurement, transfer pricing, and traditional and contemporary product costing systems. The application of the basic concepts and approaches to small and large-sized domestic and global organizations is emphasized. Where appropriate, contemporary managerial accounting issues are stressed.

ACCT 60100 - Accounting Analytics (1.5)

Prerequisites: ACCT 60011. This course allows students to explore how accounting information contributes to business analytics and how analytical methods can be used to investigate past financial performance, forecast future financial performance, and deliver insights for decision making. You will gain an understanding of how financial data and non-financial data interact by applying analytical techniques to realistic data in a series of cases to arrive at business decisions.

ACCT 60110 - Accounting and Analytics (1.5)

Prerequisites: Admitted to Master of Science in Business Analytics program. This course is designed to give you the foundations to read, understand, and analyze financial statements. You will also learn variety of analytical skills to identify and assess business risks within key transaction processing cycles fundamental to companies across industries. Effectively communicating with accounting professional will enhance your business decisions. Our goal is to have you understand the language of accounting and the logic of the accounting system in order to effectively use financial information.

ACCT 60200 - Business Process and Risk (1.5)

Prerequisites: ACCT 60100. This course addresses the emerging roles of accounting analytics in business and auditing settings. Students will learn a variety of analytical skills to identify and assess business and audit risks within key transaction processing cycles fundamental to companies across industries. Students will also learn to understand data within the context of accounting information systems to generate effective responses to mitigate risks exposures.

ACCT 65013 - Financial Reporting and Analysis (3)

3.0 credit hours. Prerequisites: Must be an EMBA candidate. A study of the fundamental concepts of financial accounting and reporting by business entities in accordance with generally accepted accounting principles. The course approaches the material from the perspective of the financial statement user rather than the financial statement preparer. Therefore, emphasis is placed on the use and interpretation of information contained in business financial statements by managers, investors, and creditors.

ACCT 65023 - Accounting for Managerial Planning and Control (3)

3.0 credit hours. Prerequisite: Must be an EMBA candidate. A study of the basic concepts, measures, techniques, and approaches of managerial accounting. The emphasis is on understanding and developing accounting and economic concepts for decision making within profit-making and not-for-profit organizations related to such topics as short-term and long-term planning, performance measurement, transfer pricing, and traditional and contemporary product costing systems. The application of the basic concepts and approaches to small and large-sized domestic and global organizations is emphasized. Where appropriate, contemporary managerial accounting issues are stressed.

ACCT 70010 - Professional Accounting Internship (1.00-3.00)

Prerequisites: Enrollment in the MAc Degree. 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. Student may not enroll in this course if they received credit for ACCT 40010.

ACCT 70013 - Advanced Financial Reporting (3)

3.0 credit hours. Prerequisites: ACCT 60010. In-depth study of topics and skills in financial accounting and reporting. The emphasis is this course is on acquiring sufficient understanding of financial accounting and reporting issues to effectively use financial reports by organizations in valuation and credit analysis as encountered in ACCT 70153.

ACCT 70020 - Strategic Cost Analysis (1.5)

1.5 credit hours. Prerequisite: ACCT 60020 or Enrollment in MAc program. An examination of the costing systems used to assign costs to products, services, and customers, and how the information produced by the systems is used by managers in their operational and strategic decisions. Topics covered include costing system fundamentals, activity-based costing, standard costing and variance analysis, non-financial performance metrics, and the use of costing systems and cost analysis to inform strategic managerial decision-making.

ACCT 70050 - Seminar in Current Financial Reporting Topics (1.5)

1.5 credits. Prerequisite: Enrollment in MAc program or instructor permission. In-depth study of current debates concerning financial reporting, including recent and pending SEC regulations, FASB standards, IASB standards, and other issues of current interest. Emphasis is on helping students gain a sophisticated understanding of current issues so as to be able to participate meaningfully in policy debates.

ACCT 70153 - Financial Statement Analysis (3)

3 hours. Prerequisite: Enrollment in the MAc program; or ACCT 60010; or student must have ACCL-MBA, ACCP-MBA, or ACCE-MBA degree plan; or instructor permission. The analysis and use of information contained in corporate financial statements by equity and credit analysts, management, and auditors, including an understanding of the limitations and inadequacies of published financial statements.

ACCT 70220 - Advanced Accounting Information Systems (1.5)

1.5 credit hours. Prerequisites: Enrollment in the MAc degree or department permission. In-dept study of advanced accounting information system concepts and applications with an emphasis on the integration of internal controls in business processes and advanced technology in accounting systems.

ACCT 70250 - Seminar in Assurance Topics (1.5)

1.5 credits. Prerequisites: Enrollment in MAc degree or department permission. This course includes advanced problems and research in the application of auditing standards; internal control evaluations; audits of accounting information systems; and auditor's ethical, legal, and reporting obligations.

ACCT 70253 - Business Combinations and Advanced Topics (3)

3 hours. Prerequisites: Enrollment in the MAc degree or departmental permission. Coverage of financial reporting issues associated with combinations of business organizations, including consolidations, inter-

company transactions, and re-measurement of foreign-currency-denominated financial statements. This course also includes deeper investigation of financial reporting topics covered in previous courses as well as topics beyond the scope of previous courses.

ACCT 70260 - Accounting and Global Perspectives (1.5)

1.5 credits. Prerequisites: Enrollment in the MAc degree program or permission of the department. This course focuses on developing future accounting and business leaders with a global mindset from a variety of perspectives. Topics include the unique characteristics of the global trade environment, globalization of the economy, the role of culture in global business, and financial and regulatory implications for global business.

ACCT 70263 - Communication, Analysis, and Persuasion in Accounting (3)

3 hours. Prerequisite: Enrollment in the MAc degree program or permission of the department. This course integrates technical and diagnostic skills learned in other accounting courses with communication skills. Emphasis is placed on writing, presenting alternatives, gaining acceptance, and successful plan implementation in competitive situations.

ACCT 70270 - Financial Reporting Research (1.5)

1.5 hours. Prerequisite: Enrollment in MAc program or department permission. An introduction to research methods and applications as they are applied to addressing financial reporting and audit issues where there is no single clear correct answer using publicly available financial data, technical U.S. and international accounting and auditing standards and SEC regulations.

ACCT 70280 - Advanced Assurance Services (1.5)

1.5 credits. Prerequisites: Enrollment in MAc degree or department permission. This course emphasizes student understanding of the various assurance services provided by professional services. Topics include examination of attestation and assurance services as well as consideration of the evidence and reporting requirements for each type of service.

ACCT 70290 - Advanced Audit & Risk Assessment (1.5)

1.50 credits. Prerequisites: Enrollment in MAc degree or department permission. Provides in-depth examination of risk assessment for performing audit and assurance services. Topics include engagement acceptance, planning, analytical procedures, and the identification of risk factors, as well as auditors' response to risks identified in the audit.

ACCT 70303 - Taxation of Business Entities (3)

3 hours. Prerequisite: Enrollment in MAc program or instructor permission. Provides an overview of the tax laws related to corporations and flow-through entities.

ACCT 70310 - Accounting for Income Taxes (1.5)

1.5 hours. Prerequisites: Enrollment in the MAc degree or department permission. Examines the financial accounting and reporting of income taxes. Topics include the calculation of current and deferred income taxes, an overview of book-tax differences, and the presentation and disclosure of income taxes in financial statements.

ACCT 70320 - Taxation of Flow-through Entities (1.5)

1.5 credits. Prerequisites: Enrollment in the MAc Degree or department permission. Provides an in-dept study of the federal income taxation of flow-through entities, including partnerships and S corporations, and their owners. Topics include the tax consequences associated with a flow-through entity's formation, operations, distributions to owners, and liquidation.

ACCT 70330 - Corporate Taxation (1.5)

1.5 credits. Prerequisites: Enrollment in the MAc Degree or department permission. Provides an in-depth study of the federal income taxation of corporations and their shareholders, including the tax consequences associated with a corporation's formation, operations, distributions, possible reorganization, and liquidation.

ACCT 70340 - Multi-Jurisdiction Tax (1.5)

1.5 credits. Prerequisites: Enrollment in the MAc degree or department permission. Provides an in-depth analysis of special tax topics, with application of research techniques to the topics discussed. Topics may include state and local taxation, the U.S. taxation of multinational transactions, financial planning and wealth transfers, as well as topics that arise from tax legislation.

ACCT 70350 - Seminar in Current Tax Topics (1.5)

1.5 credits. Prerequisites: Enrollment in the MAC degree or department permission. Examines major features of US and international tax systems, and analyzes the tax proposals and policies that are likely to dominate debate in the next decade.

ACCT 70370 - Tax Research (1.5)

1.5 Credit hours. Prerequisite: Enrollment in the MAC Program or instructor permission. An introduction to research methods in taxation. Students learn to identify tax issues, formulate research questions, evaluate the relevant authorities, and communicate the research results.

ACCT 70380 - Tax Research II (1.5)

Prerequisites: ACCT 70370. This course builds upon the research skills developed in the first tax research course (ACCT 70370), as well as the tax knowledge students gain in their graduate tax courses. Advanced tax topics not specifically included in other courses is also discussed.

ACCT 70400 - Business Law for Accounting Professionals (1.5)

1.5 hours. Prerequisite: Enrollment in MAC degree or departmental permission. An overview of business law relevant to the practice of public accounting, including: contracts, business organizations, debtor-creditor relationships, government regulation of business, property, negligence, fraud, and the Uniform Commercial Code.

ACCT 70410 - Professional Communication for Accounting (1.5)

1.5 hours. Prerequisites: Enrollment in the MAC degree or departmental permission. The objectives of this course are to further develop the broad range of communication-related skills necessary for a successful professional career in accounting. Specific topics to be addressed include business writing, organizing and delivering persuasive presentations, communication styles, providing feedback, managing resistance, and working in a diverse environment.

ACCT 70420 - Economic Foundations of Accounting (1.5)

1.5 credit hours. Prerequisite: Enrollment in the MAC degree or department permission. This course helps students to explore and understand the economic environment in which accounting exists. We introduce and illustrate how theories from economics help to explain the existence of accounting, its role in organizations and in the global economy, and the behavior of markets, organizations, and individuals within the system.

ACCT 70430 - Analysis and Persuasion (1.5)

This course integrates technical and diagnostic skills learned in other accounting courses with communication skills. Emphasis is placed on presenting alternatives, gaining acceptance, and successful implementation in competitive situations.

ACCT 70433 - International Financial Reporting and Global Markets (3)

3 credit hours. Prerequisite: Enrollment in the MAC degree or department permission. Study of international institutions, businesses, cultures, and financial reporting. Includes study-abroad component and business, government, and other institution site visits.

ACCT 70440 - Accounting and Public Policy (1.5)

1.5 credits. Prerequisites: Admitted to MAC program. An intensive study of accounting and public policy. Students travel to Washington D.C. Campus for a multi-day intensive study. Participants will gain understanding of the accounting profession's increasingly dynamic public affairs and public policy environment.

ACCT 70450 - Moral Reasoning in Accounting (1.5)

1.5 credits. Prerequisites: Enrollment in the MAC degree program or permission of the department. Addresses moral reasoning and decision making in an accounting context. Tools for addressing ethical dilemmas are addressed from a personal and organizational framework. Case studies are used to develop moral reasoning skills.

ACCT 70460 - Ethics for Accounting Professionals (1.5)

1.5 credit hours. Prerequisite: Enrollment in the MAC degree program or permission of the department. This course is designed to further enhance students' ethical decision-making in relation to issues faced by accounting professionals. The course focuses on ethical reasoning and decision-making, integrity, objectivity, independence, professionalism and other core values of the accounting profession.

ACCT 70510 - Valuation in Accounting Context I (1.5)

1.5 credit hours. Prerequisites: Enrollment in the MAC degree program or department permission. Business valuation theory, approaches, and

methodology and their application to account settings where valuation is needed such as in applying tax laws, financial reporting standards, and auditing standards.

ACCT 70520 - Valuation in Accounting Context II (1.5)

1.5 credit hours. Prerequisite: Enrollment in the MAC degree program or department permission. ACCT 70510 recommended but not required as preparation. Putting foundational business valuation concepts into practice. Coverage of more specific valuation applications common in financial reporting and other areas.

ACCT 70550 - Seminar in Current Advisory Topics in Accounting (1.5)

1.5 credit hours. Prerequisites: Enrollment in the MAC Degree or department permission. This course examines current topics in the professional services of advisory and valuation. Specifically, we discuss valuation of business and the contributing factors to business valuation including market reactions, economic changes, and financial reporting requirements. Emphasis is placed in developing students' ability to synthesize information and effectively communicate decisions in writing.

ACCT 70560 - Mergers & Acquisitions Accounting (1.5)

1.5 credits. Prerequisites: Enrollment in MAC or department permission. The course focuses on valuation within the context of mergers and acquisitions (for buyer and seller), accounting for transactions, developing tax efficient deals, appreciating the strategic goals of a merger or acquisition, and understanding the process involved in the deal.

ACCT 70610 - Energy Accounting (1.5)

1.5 credit hours. Prerequisites: ACCT 60010 or a Masters in Accounting student. This course focuses on accounting and reporting issues affecting the energy industry. The material covered includes a review of how accounting information impacts finance and operations from the local to the global level. Uniquely energy related topics include intangible development cost law, accounting for oil and gas exploration, reserve estimation, accounting for unproved property, accounting for development stages of wells, accounting for joint operations, and production and volume measurement. Capitalization and the impact of the depletion model on taxes, current and projected income, and cash flows are also covered. Other topics covered include environmental liabilities are discussed along with revenue accounting structures.

ACCT 70970 - Special Problems in Accounting (1.00-20.00)

Special Problems in Accounting.

ACCT 71273 - Advanced Audit and Assurance (3)

3 credit hours. Prerequisite: Enrollment in the MAC degree or department permission. Continuing study (beyond the undergraduate audit and assurance course) of current issues related to auditing, including topics such as risk assessment, incorporation of internal audit's work into the audit plan, consideration of fraud in a financial statement audit, and other issues affecting audit practice.

ANTH - Anthropology

ANTH 50623 - Advanced General Anthropology (3)

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.

ANTH 50923 - Kinship and Social Organization (3)

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.

ANTH 60670 - Directed Readings or Research in Anthropology (1.00-6.00)

ARED - Art Education

ARED 60970 - Special Problems (1.00-21.00)

Special Problems (1-21 hours.)

ARHI - Art History

ARHI 60123 - American Art 1913 to the Present (3)

American Art from 1913 to the present.

ARHI 60133 - Art of the Aztecs (3)

This seminar focuses on the art and architecture of the Aztec empire.

ARHI 60143 - Gender in Mesoamerican Art (3)

This seminar focuses on the issue of gender in ancient Mesoamerican art.

ARHI 60153 - The Aztec, Maya, and Olmec: Ancient Mesoamerican Art (3)

This course examines the art and architecture of the major cultures of Pre-Columbian Mesoamerica.

ARHI 60163 - Maya Art and Architecture (3)

This course is an in-depth study of the art and architecture of the ancient Maya.

ARHI 60173 - Early Italian Renaissance Art (3)

Early Italian Renaissance Art

ARHI 60183 - High and Late Italian Renaissance Art (3)

High and Late Italian Renaissance Art

ARHI 60193 - Northern Renaissance Painting: Van Eyck - Bruegel (3)

Symbol and Reality: Renaissance art in northern Europe.

ARHI 60203 - 17th Century Italian and Spanish Art (3)

17th century Italian and Spanish art.

ARHI 60213 - Drawing as Artistic Invention (3)

The history and technique of drawings from the 15th through 18th centuries. Emphasis on Leonardo, Raphael, Michelangelo, Elisabetta Sirani, Rubens, and Rembrandt.

ARHI 60333 - Modern Art I: Romantic classicism to Impressionism (3)

Art in the Age of Revolution. Addresses major movements and issues in European art from 1789 to the 1880s.

ARHI 60343 - Modern Art II: Post-Impressionism to Surrealism (3)

Modernism in an Age of Change. Addresses major movements and issues in European art from the 1880s to the 1940s.

ARHI 60363 - 17th Century Flemish-Dutch Painting (3)

17th Century Flemish-Dutch Painting

ARHI 60500 - Special Topics in Art History (3)

Special Topics in Art History

ARHI 60603 - Art Since 1945 (3)

Art since 1945.

ARHI 60613 - Modern Architecture (3)

Modern Architecture: 1750 to the present.

ARHI 60623 - History of the Print (3)

History of the Print

ARHI 60823 - History of Photography (3)

History of Photography

ARHI 70003 - Art Historical Methods, Theories and Issues (3)

A seminar focusing on the historiography of art history and current methodologies and theories employed by the discipline. Topics include the origins of art history; research techniques employed to study the production and reception of the art object; the premises and results of contemporary modes of interpreting the art object, as well as current issues in the field.

ARHI 70013 - The Art Museum (3)

A seminar which assess a broad range of historical and contemporary issues, practices, and concerns of art museums, and which examines more specifically the collections and philosophies of the Amon Carter Museum, the Kimbell Art Museum, and the Modern Art Museum of Fort Worth. The class includes numerous museum-site sessions.

ARHI 70023 - Approaches to the Art Object (3)

A seminar on the physical characteristics of art works, focusing on the science/art of authenticating and identifying art works in terms of authorship and date. Information also on artistic techniques, condition, and conservation. The chronological emphasis of the course may vary, depending on the particular interests of the instructor.

ARHI 70100 - Museum Seminar (3.00-9.00)

This seminar offers students the opportunity to study an historical topic in depth, within an art museum environment. The course's specific topic varies, but the course always centers on actual works of art. Therefore, the seminar will meet the majority of the time in an art museum and include the participation of museum professionals. (3-9 semester hours)

ARHI 70300 - Special Topics Seminar (3.00-12.00)

A seminar that offers the opportunity to study various significant topics in depth. (3-12 semester hours)

ARHI 70983 - Internship (3)

Prerequisite: completion of the first year of the graduate program in art history. Students must apply and interview for an internship. A semester-long internship in an art museum.

ARHI 70990 - Thesis (3.00-6.00)

Prerequisite: Permission of a student's thesis advisor. May be repeated for up to 6 hours credit.

ARST - Studio Art

ARST 60100 - Life Studies (1.00-20.00)

Life Studies (may be taken for 1-21 hours.)

ARST 60120 - Graduate Critique (3.00-12.00)

Graduate Critique. 3-12 hours.

ARST 60140 - Painting (1.00-21.00)

Painting. 1-21 hours.

ARST 60160 - Printmaking (Intaglio) (1.00-20.00)

Printmaking (Intaglio) 1-15 hours.

ARST 60170 - Printmaking (Lithography) (1.00-20.00)

Printmaking (Lithography) 1-15 hours.

ARST 60180 - Printmaking (Screenprinting) (1.00-15.00)

Printmaking (Screenprinting) 1-15 hours.

ARST 60420 - Sculpture (1.00-20.00)

Sculpture

ARST 60553 - Zoo Animal Enrichment (3)

Prerequisites: Graduate in Biology, Environmental Sciences, Education or Studio Arts programs, or permission from the faculty. This team-taught course between Environmental Science and Studio Art. In this course students will explore the ecology and behavior of wild animals to provide insights into the types of stimuli they naturally encounter. These insights will then be used to develop and build objects and structures that will engage and enrich the lives of animals at the Fort Worth Zoo. Students will work in teams to study a specific species currently residing at the zoo and create objects and structures that will enhance their lives in captivity.

ARST 60903 - Seminar in Art Criticism (3)

Seminar in Art Criticism

ARST 60913 - Seminar in Art Professions (3)

Seminar in Art professions.

ARST 60970 - Special Problems (1.00-21.00)

Special Problems (1-21 hours.)

ARST 70991 - Thesis Exhibition (1)

Prerequisite: Admission to candidacy.

BIOL - Biology

BIOL 50103 - Terrestrial Ecosystems (3)

Three hours lecture per week. Prerequisite: BIOL 30403 or 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.

BIOL 50123 - Biostatistics (3)

Prerequisites: BIOL 30403 and 30603 or permission of instructor. Two hours lecture and two hours of computer lab per week. Students will gain knowledge and understanding of how statistical methods are applied to biological research. The course will emphasize hypothesis testing, study design, and the concepts, application, and interpretation of statistical results. Basic probability theory, parametric statistics, correlation, regression, analysis of variance, and non-parametric statistics will be introduced.

BIOL 50133 - Biochemistry I (3)

Prerequisite: CHEM 30133 and 40123 or permission of instructor. Three hours lecture per week. A general survey of structure and function of biologically important compounds with methods of analysis. (Crosslisted as BIOL/CHEM 50133.)

BIOL 50143 - Biochemistry II (3)

Prerequisite: BIOL/CHEM 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. (Crosslisted as BIOL/CHEM 50143.)

BIOL 50153 - Medicinal Chemistry (3)

Three hours lecture per week. Prerequisites: BIOL/CHEM 50143, or permission of instructor. Molecular mechanism of drug actions, and methods of drug design, discovery and development. (Crosslisted as BIOL/CHEM 50153.)

BIOL 50303 - Evolution (3)

Three hours lecture per week. Prerequisite: BIOL 10501, 10503 10511 and 10513. Concepts and principles of organic evolution. Topics include natural selection, adaptation, quantitative genetics, sexual selection, kin selection, life history characters, speciation, and phylogeny.

BIOL 50401 - Neurobiology of Aging (1)

Prerequisites: permission of instructor. The current literature associated with the neurobiology of aging, modern research techniques and recent developments in neuroscience and aging research are discussed. This is a participation course in which advanced undergraduate and graduate students will present manuscripts, explain research hypotheses and methodologies and explain results. Open discussion of these papers will include faculty from Biology and Psychology. Topics presented will differ by semester. The course may be repeated three times (taken a maximum of four semesters in all.) (Crosslisted as BIOL/PSYC 50401.)

BIOL 50463 - Functional Neuroanatomy (3)

Prerequisite: Graduate or senior standing or permission of instructor. The fundamentals of functional neuroanatomy and neurophysiology with an emphasis on experimental and theoretical analysis of the basic brain behavior relationships. (Crosslisted as BIOL/PSYC 50463.)

BIOL 50502 - Biochemistry Laboratory (2)

Two four-hour laboratory periods per week. Prerequisite: CHEM 50143 or concurrent registration. (Crosslisted as BIOL/CHEM 50502)

BIOL 50703 - Ecology of Lakes and Streams (3)

Prerequisite: BIOL 30403 or permission of instructor. Two hours lecture and one laboratory period per week. Study of the physical, chemical and biological factors affecting the ecology of lakes, ponds and streams.

BIOL 50803 - Marine Biology of the Tropics (3)

Prerequisite: Six semester hours in Biology; travel costs are exclusive of tuition. This course provides an introduction to the marine animals, plants, and ecosystems of the New World tropics. Lecture topics will include tropical oceanography and ecosystems, evolutionary patterns in the tropics, island biogeography, and conservation of marine biodiversity. The field experience will expose students to coastal marine ecosystems (coral reefs, mangroves, beaches, and seagrass beds). Two hours lecture per week, one week of field work in the tropics.

BIOL 50903 - Tropical Biology (3)

Two hours lecture per week, one week of field work in the tropics and a terminal project. Prerequisites: Six semester hours in Biology; travel costs are exclusive of tuition; permission of instructors. This course provides an introduction to the animals, plants, and ecosystems of the New World tropics. Lecture topics will include tropical climate and ecosystems, evolutionary patterns in the tropics, and conservation of biodiversity. The field experience will expose students to coastal ecosystems (coral

reefs, mangroves, and seagrass beds) as well as tropical, lowland rainforest.

BIOL 50910 - Biology Seminar (1)

1. The primary goal is to acquaint the student with the preparation and presentation (oral and/or written) of scientific information from the biological literature. May be repeated for credit with different topics to a maximum of 3 times (one semester hour per topic). 2. Acquainting the student with the preparation and presentation (oral and/or written) of scientific information from the biological literature. May be repeated for credit with different topics to a maximum of 3 times. (One semester hour per topic.)

BIOL 60000 - The Teaching of Biology (3.00-6.00)

Three to six semester hours. Seminar in methods of teaching Biology and supervised classroom and laboratory teaching. Open to students who are Teaching Assistants or National Science Foundation Trainees.

BIOL 60001 - Scientific Presentation (1)

The goal of this course is to acquaint the student with the organization, preparation and effective delivery of scientific seminars. ALL BIOLOGY GRADUATE STUDENTS ARE REQUIRED TO TAKE THIS COURSE.

BIOL 60100 - Graduate Seminar - Current Research in Biology (0.5)

This 0.5 credit hour seminar course will introduce biology graduate students to a wide range of research areas within the biological sciences, aid students in developing scientific communication skills, and provide student an opportunity to network with scientists from diverse fields in biology. This course may be repeated up to two, four and eight times by MA, MS, and PhD students, respectively. P/NC

BIOL 60111 - Graduate Teaching in Biology (1)

Prerequisites: Graduate Standing. One semester hour. The purpose of this course is to provide pedagogical training to Biology graduate students. In this course, different educational theories and classroom issues will be discussed. Students will gain experience in classroom management, teaching styles, assessment, exam composition, and creating a syllabus.

BIOL 60121 - Professional Development in Biology (1)

Prerequisites: Graduate Standing. One semester hour. The course focuses on building the professional skills necessary for graduate students to succeed, both at TCU and in their future careers. Topics covered include CV/resume preparation, professional communication and networking, conduct at scientific meetings, ethics, time management, and jobs in biology.

BIOL 60123 - Electron Microscopy (3)

Prerequisites: BIOL 50133, 50143 or permission of instructor. Cell ultrastructure with special emphasis on preparative techniques useful in the study of functional morphology of cells.

BIOL 60131 - Introduction to Scientific Research and Writing (1)

Prerequisites: Graduate Standing. This course is designed for first-year Biology graduate students pursuing thesis research. Students enrolled in the course will: 1) gain familiarity with research compliance at TCU, 2) be introduced to methods and techniques for finding and acquiring primary literature, 3) discuss strategies for effectively and efficiently reading and understanding the scientific literature, and 4) become familiar with basic aspects of written scientific communication.

BIOL 60132 - Introduction to Scientific Research and Writing (2)

Prerequisites: Graduate Standing. This course is designed for first-year Biology graduate students pursuing thesis research. Students enrolled in the course will: 1) gain familiarity with research compliance at TCU, 2) be introduced to methods and techniques for finding and acquiring primary literature, 3) discuss strategies for effectively and efficiently reading and understanding the scientific literature, and 4) become familiar with basic aspects of written scientific communication.

BIOL 60153 - Conservation Genetics (3)

Prerequisites: BIOL 10504, 10514, 30403, and 30603 or permission of instructor. Genetics plays an important and diverse role in the preservation of biological diversity. This course consists of two one-hour lectures and one three-hour laboratory each week and covers genetic theory and methods that are utilized in modern conservation efforts. Laboratory exercises focus on 1) the practical aspects of DNA extraction methods, molecular markers, PCR, sequencing, and capillary electrophoresis, and 2) analyzing the resulting genetic data.

BIOL 60163 - Avian Biology (3)

This course consists of two one-hour lectures and one three-hour laboratory each week. Lectures cover the evolution, anatomy and physiology, life histories, behaviors and conservation of birds. The laboratory portion of the course includes identifying birds with molecular methods and field trips to identify common species of Texas birds. Five Saturday morning field trips are required.

BIOL 60173 - Mammalogy (3)

Prerequisites: Six semester hours in Biology. Two hours of lecture and two hours of laboratory per week. This course introduces graduate students to mammals. Lectures will examine the major topics of mammalian biology including the evolutionary history, classification, adaptations, ecology, and natural history of mammals. Field techniques for the study of mammalian biodiversity and abundance will also be covered in this course. Field trips will be required. (Crosslisted as BIOL/ENSC 60173.)

BIOL 60220 - Skills and Techniques in Biology Seminar (1.00-3.00)

Prerequisites: Graduate Standing and permission of instructor. The primary goal of this course is to provide students with hands-on training relevant to various aspects of biological research. Topics to vary, but may include specific bench-top or field techniques, the use of specialized statistical programs or approaches, or advanced methods of scientific communication. May be taken for 1-3 credit hours, depending on the topic. May be repeated for credit up to a total of 6 credit hours.

BIOL 60224 - Developmental Biology (4)

Three hours lecture and one lab period per week. Mechanisms of developmental biology. Molecular, genetic, cellular, and morphological processes behind development.

BIOL 60243 - Advanced Immunology (3)

Three hours lecture per week. Prerequisite: BIOL 30303 20233, and 40253 or permission of instructor. Immunobiology and immunochemistry of the immune response, especially cell mediated reactions. Current literature, techniques and clinical applications.

BIOL 60263 - Immunobiology of Disease (3)

Prerequisites: BIOL 30304 or BIOL 40254 or permission of the instructor. This lecture-based course features current research in Immunology that focuses on how manipulations of the innate or adaptive immune system can modulate disease states. This includes how microbes overcome immune defenses, failures in immune system function and how the immune system can be therapeutically modified to treat disease.

BIOL 60320 - Graduate Research in Biology (1.00-6.00)

Prerequisites: Permission of instructor. May be taken for 1-6 credit hours per semester. A minimum of 9 hours of BIOL 60320 Graduate Research is required for the Ph.D.

BIOL 60353 - Wildlife Ecology and Management (3)

Prerequisites: Six semester hours in Biology. Two hour lectures and a three hour laboratory each week. This discussion-oriented course introduces graduate students to the general principles of wildlife ecology and how those principles can be applied to wildlife management and conservation. The objectives of this course are 1) to provide an introduction to the major concepts of Wildlife Ecology and Management and 2) to allow you to learn the application of the scientific method to ecological problems. Laboratory exercises are required. (Crosslisted as BIOL/ENSC 60353)

BIOL 60403 - Medical Microbiology (3)

Prerequisite: Permission of instructor. This course focuses on advanced topics in medical microbiology including disease mechanisms of major human pathogens, the host response, and antibiotic development and resistance. Scientific approaches used to investigate these topics are emphasized. This course includes reading and discussion of the primary literature.

BIOL 60603 - Virology (3)

Prerequisite: Six hours of biochemistry or permission of instructor. Fundamental properties of viruses and contribution of viral studies to molecular biology.

BIOL 60703 - Advanced Teaching in Biology (3)

Prerequisites: BIOL 60111 and permission of instruction. Three semester hours. The purpose of this course is to provide advanced pedagogical training to Biology graduate students. In this course, different educational theories and classroom issues will be discussed, practiced, and observed. Students will gain experience in classroom

management, teaching styles, assessment, exam composition, and creating a syllabus.

BIOL 60723 - Advanced Genetics (3)

Three hours lecture per week. Prerequisites: BIOL 30303, 40123, and 50133 or permission of instructor. Examination of research literature dealing with selected topics in genetics. Topics in molecular genetics are most common. May be repeated for credit one time with different topic.

BIOL 60803 - Physiology (3)

Three hours of lecture per week. Basic functions of the major mammalian systems will be studied in terms of physical and chemical principles and system interactions.

BIOL 60910 - Biology Seminar (1.00-3.00)

Prerequisite: BIOL 60001 or permission of instructor. The primary goal is to acquaint the student with areas of study in the biological sciences not covered in detail in other courses.

BIOL 70771 - Non-Thesis (1)

Selected when enrolling only for non-thesis examination or preparation for the examination.

BIOL 70950 - Assigned Problems in Biology (1.00-20.00)

Limit 3 hours unless approved by graduate committee or department chair. Each of the assigned projects requires a minimum of 50 clock hours of field, laboratory or library work for each semester hour of credit.

BIOL 70980 - Thesis (1.00-6.00)

A minimum of 3 hours of BIOL 70980 Thesis is required.

BIOL 70990 - Thesis (1.00-6.00)

Prerequisite: BIOL 70980 and admission to candidacy. A minimum of 3 hours of BIOL 70990 Thesis is required.

BIOL 80703 - Teaching Practicum in Biology (3)

Prerequisites: BIOL 60703, admission to candidacy in Ph.D., and permission of departmental chair. Supervised curriculum development including but not limited to preparation and delivery of lectures, leading classroom discussions, and student assessment. This course is only offered P/NC. ALL BIOLOGY PH.D. STUDENTS ARE REQUIRED TO TAKE THIS COURSE.

BIOL 90980 - Dissertation (1.00-20.00)

Prerequisites: Admission to Ph.D. candidacy and permission of instructor. A minimum of 6 hours of BIOL 90980 Dissertation is required.

BIOL 90990 - Dissertation (1.00-6.00)

Prerequisites: Six hours of BIOL 90980 and permission of instructor. A minimum of 6 hours of BIOL 90990 Dissertation is required.

BUSI - Business

BUSI 50833 - Team Leadership Skills (3)

3 hours. Prerequisites: BUSI 30833 with a grade of at least C, and must be a Business major. A developmental approach is taken in this course to build critical skills that support effective team leadership in today's organizations. This course will focus on introducing and cultivating skills such as team building, group process facilitation, dialogue, meeting management, and conflict resolution. Learning through active application and experiential exercises will be emphasized.

BUSI 50843 - The Leadership Challenge (3)

3 hours. Prerequisites: A business major, and BUSI 30843, and BUSI 40833 with at least a grade of C and departmental permission. This course is the capstone for the Leadership Emphasis program. It will cover content associated with what it takes to successfully lead change efforts. As such, it will cover topics such as overcoming complacency, creating and communicating new direction, development support for leadership initiatives, dealing with resistance, among others. In addition, students will be given a leadership challenge in an assigned field placement where they will be expected to use what they've learned in leadership courses to lead a project to a successful completion. Class sessions will help students relate their field experience to topic coverage in this course as well as to other courses in the Leadership emphasis program.

BUSI 60050 - Global Environment of Business (1.5)

1.5 credit hours. This course is designed to be an introduction to international business. As such, the student will be introduced to those strategic, managerial, organizational and/or legal implications of doing business overseas. In addition, the course will consider those international institutions and cultural differences that impact the conduct of the global firm.

BUSI 60070 - Business Simulation (1.5)

1.5 credit hours. This course helps students integrate concepts from the different business disciplines by involving them in a complex computer simulation of realistic business situations. Teams of students are required to make business decisions involving a diverse set of business functions and activities over a series of rounds in which conditions change. Through successive phases of the simulation, students must respond to the actions of competing company teams represented by their classmates and are exposed to the consequences of their previous decisions. The course, which is taught at the end of the required core courses, requires students to draw on the material from those courses in making their decisions. Student performance in the simulation is reflected in a balance scorecard of multiple metrics. At the end of the simulation, students present their rationales for their decisions.

BUSI 60090 - Data Ethics and Privacy (1.5)

Prerequisites: Admitted to Masters of Science in Business Analytics program. 1.5 credit hours. Data Ethics and Privacy addresses the ethics of the collection, management, and use of data by business organizations. Frameworks are introduced for addressing the governance of data at the level of individuals and organizations. Case studies are used to develop analytical skills and provide context.

BUSI 60200 - Business Intelligence & Analytics (1.5)

Prerequisites: Graduate standing. The key objectives of this course are two-fold: (1) to provide you with a theoretical and practical understanding of core data mining and analysis concepts and techniques; and (2) to provide you with hands on experience in applying these techniques to practical real-world business problems using commercial data mining and analysis software. As an applied course, the emphasis will be less on the inner working of each method and more on when and how to use each technique and how to interpret the results.

BUSI 65103 - Personal Leadership Development Process (3)

3.0 credit hours. Prerequisites: Must be an EMBA candidate. The objective of this course is to enable each student to identify and strengthen leadership competencies critical to his/her success. Through a 360-degree survey, a learning agility assessment and working one-on-one with a leadership coach, the student will develop (1) an understanding of the leadership competencies critical to companies today, and to his/her current and future career success, (2) insights about the relative importance of these competencies in their work environment, and (3) understanding about his/her strengths and weaknesses with respect to the leadership competencies. Students will also reflect on the full set of leadership development experiences in the Neeley EMBA program (personal development experience working with a leadership coach, coursework and teamwork) to help him/her become a more effective strategic leader. (This course is only offered as P/NC.)

BUSI 66100 - Career Management and Professional Development (1.5)

1.5 credit hours. Assesses and develops skills in the following areas: career management, intercultural dynamics, leadership, professional communication, and team building. Students must complete various assessments and attend feedback sessions, and complete the START workshop. Students must also complete several career management requirements and submit a career development plan for approval. Students enroll in this course on a pass/no credit basis.

BUSI 70173 - Introduction to Hedge Fund Strategies (3)

Students will work in conjunction with a Texas-based asset manager to gain an understanding of hedge fund investment strategies. Students will use their critical thinking ability and knowledge of macroeconomics, security analysis, and portfolio management to formulate an analysis on the feasibility of an alternative investment portfolio. Such strategies may include long/short equity, relative value/capital structure arbitrage, event driven/merger arbitrage, and global macro trading. The result is an understanding of investment theory that goes beyond the conventional buy-and-hold method prevalent in undergraduate and graduate investment course study. At the end of the semester, the team's analysis might be presented to a professional audience.

BUSI 70200 - Business Intelligence & Accounting Analytics (1.5)

Business Intelligence Accounting Analytics combines financial and operational data with mining tools to improve the timeliness and quality of inputs to decision processes. It encompasses both top-town (confirmatory or hypothesis driven) analysis using traditional statistical techniques and bottom-up (exploratory) analysis using database and machine learning techniques to discover regularities, relations, or local structure/patterns that are at first unknown. The topics and related methods discussed include information retrieval and enterprise reporting, classification, predictive modeling, clustering, association rules mining, and social network analysis. The application of these methods are illustrated using modern software tools via examples, homework assignments and group term projects.

BUSI 70220 - Real Estate Valuation I (1.5)

Theory, methods and principles of valuation; cost, market and income approaches to value; the appraisal process applied both to residential and commercial property.

BUSI 70330 - Real Estate Valuation II (1.5)

Prerequisites: BUSI 70220. Theory, methods and principles of valuation; cost, market and income approaches to value; the appraisal process applied both to residential and commercial property. During the eight week session, students will be required to complete an appraisal project.

BUSI 70601 - Real Estate Property Law (1)

This course will cover the basics of real estate law, particularly land ownership and transfer of title, as well as the legal issues involved with both.

BUSI 70623 - Global Business Experience (3)

Prerequisites: Mana 60050. This course focuses on the opportunities and challenges of doing business outside of the United States. More specifically, this course focuses on developing an understanding of the issues and opportunities related to business in a defined country or geography. In addition to classes at TCU, students will travel to the country or countries and interact with businesses including identifying the standards, practices, and structures of business as appropriate to the focus of the course. In so doing, the role of history, politics, culture, social norms, and legal environment will be explored. Opportunities, challenges and risks associated with doing business in an international setting will be identified.

BUSI 70700 - Energy in the 21st Century (1.5)

This is an interdisciplinary, team taught course that provides a broad based overview of energy: its exploration and production, its controversies, its geopolitics and the process by which it is provided.

BUSI 70710 - Energy Commodities (1.5)

This course will focus on the commodity markets and how they affect the energy industry. We will gain an understanding of the differences between various markets (stock and commodity) while also learning the similarities. We will look at the instruments and uses of hedging in industry, and debate the pros and cons of doing so. We will have conversations on speculation, Black Swan events and current topics, and how they relate to price.

BUSI 70711 - Land Title Issues

The class will attempt to cover the basics of searching land title, with particular attention to rights of mineral owners, royalty owners, and surface owners.

BUSI 70713 - Energy in the 21st Century (3)

This is an interdisciplinary, team taught course in four sections, that provides a broad based overview of energy: its exploration and production, its controversies, its geopolitics and the process by which it is provided.

BUSI 70720 - Land Title Issues (1.5)

The class will attempt to cover the basics of searching land title, with particular attention to rights of mineral owners, royalty owners, and surface owners.

BUSI 70970 - Special Problems (1.5)

Special Problems in Business. Enrollment in the MBA or MS-Supply Chain Management program.

BUSI 72460 - Healthcare Markets (1.5)

1.5 credit hours. This course explores the unique features and characteristics of healthcare markets, whether and how the economics of healthcare markets diverges from traditional economic theory, and the

specific challenges and opportunities thus presented. Reimbursement and revenue cycle models in various healthcare sectors are discussed, with specific consideration of the implications of the revenue model on strategy, operations, and management.

BUSI 75970 - Special Problems in Business (1.00-20.00)

Special Problems in Business. Prerequisite: Must be an EMBA candidate.

BUSI 75974 - Managing in a Global Business Environment (4)

4.0 credit hours. Prerequisite: Must be an EMBA candidate. This course is the study and experience of managing in a global business environment. The course provides background learning in preparation for a study abroad opportunity that includes visits to companies (multinational and local), institutions (financial, educational, political), and cultural sites. Pre-trip classes provide the students an understanding of the risks, opportunities, and challenges of doing business across borders and the impact of differences in legal, political, cultural, social and institution frameworks in different countries. An opportunity analysis is completed and presented in the post-trip class period.

BUSI 77702 - International Internship (2)

Prerequisite: Enrollment in the MIM program. This is an international internship that exposes students to cross-country variations in business practices, cultures, work environments, regulatory settings, and other aspects of international business. Students are immersed in a work environment different from that of their native country. MIM students from TCU will intern in Mexican companies while MIM students from UDLA will intern in U.S. companies.

CHDV - Child Development

CHDV 50433 - Trauma & Relationships (3)

Prerequisite: Junior standing. This course is the first of a two-part series of multidisciplinary courses which examine children who have experienced complex developmental trauma, including outcomes, assessments, and interventions through a study of peer-reviewed articles and evidence-based interventions, including Trust-Based Relational Intervention (TBRI). TBRI is an attachment based, trauma-informed intervention designed to meet the complex needs of children through connecting, empowering, and correcting. Emphasis in this course will be attachment theory and the development of healthy relationships. Completing this course is recommended to work at The Hope Connection 2.0 therapeutic camp. (Crosslisted as CHDV/PSYC 50433.)

CHDV 50443 - Trauma & Behavior (3)

Prerequisites: CHDV/PSYC 50433 and junior standing. This course is the second of a two-part series of multidisciplinary courses which examine children who have experienced complex developmental trauma. Emphasis in Trauma and Behavior is on understanding the effects of trauma on the body, brain, and behavior, as well as demonstrating trauma-informed intervention strategies and skills. Completing this course is recommended to work at The Hope Connection 2.0 therapeutic camp. (Crosslisted as CHDV/PSYC 50443.)

CHDV 50533 - Case Studies in Child Development (3)

Prerequisite: Junior standing. This course is designed to present an integrated and comprehensive overview of numerous issues in child development as well as treatments/solutions for those issues. This diverse array of developmental problems will be presented in a series of case-studies by professors from several departments as well as by community professionals who specialize in children's issues. This course is a requirement for the Child Development Minor as well as an elective course in Psychology. (Crosslisted as CHDV/PSYC 50533.)

CHDV 60263 - Child Development Internship I (3)

Prerequisites: Graduate standing in the Developmental Trauma Master's Program. This course provides opportunities to work with children through internship positions. Service environments will provide experiential learning through which students will utilize their knowledge of child development and developmental trauma. Students can obtain their own positions (e.g., foster care and adoption agencies, residential treatment centers, child life specialist practicums/internships) or can take part in internships facilitated by the instructor (e.g., therapeutic summer camps). Students spend at least 96 hours at their internship site. Further, students attend regularly scheduled meetings to discuss their experience with peers and faculty and learn about working in helping professions.

CHDV 60273 - Child Development Internship II (3)

Prerequisites: Graduate standing in the Developmental Trauma Master's Program and CHDV 60263 Child Life Internship I. This course provides advanced opportunities to work with children through internship positions. Service environments will provide experiential learning through which the student will utilize their knowledge of child development and developmental trauma. Students can obtain their own positions (e.g., foster care and adoption agencies, residential treatment centers, child life specialist practicums/internships) or can take part in internships facilitated by the instructor (e.g., therapeutic summer camps). Students spend at least 96 hours at their internship site. Further, students attend regularly scheduled meetings to discuss their experiences with peers and faculty and learn about working in helping professions.

CHDV 60903 - Developmental Trauma Capstone Course (3)

This course is the capstone course for the Master of Science in Developmental Trauma program. Students complete a treatise and several professional development activities under the advisement of a faculty member in the program. (Crosslisted as CHDV/PSYC 60903)

CHEM - Chemistry

CHEM 50001 - Laboratory Safety, Ethics & Professional Skills (1)

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. Ethics in the chemistry and the use of databases and industry-specific software will also be discussed. (This course is only offered P/NC.)

CHEM 50111 - Laboratory Glassblowing (1)

One 4-hour laboratory period per week. An introduction to the preparation of laboratory research equipment constructed of sodium and borosilicate glass.

CHEM 50120 - Teaching of Chemistry (.50-3.00)

Prerequisite: Permission of instructor. Members of this class act as Chemistry laboratory assistants. Techniques of laboratory instruction are illustrated and the importance of laboratory safety is stressed. 0.5-3 semester hours.

CHEM 50133 - Biochemistry I (3)

Prerequisite: CHEM 30133 and 40123 or permission of instructor. Three hours lecture per week. A general survey of structure and function of biologically important compounds with methods of analysis. (Crosslisted as BIOL/CHEM 50133.)

CHEM 50143 - Biochemistry II (3)

Prerequisite: BIOL/CHEM 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. (Crosslisted as BIOL/CHEM 50143.)

CHEM 50153 - Medicinal Chemistry (3)

Three hours lecture per week. Prerequisites: BIOL/CHEM 50143, or permission of instructor. Molecular mechanism of drug actions, and methods of drug design, discovery and development. (Crosslisted as BIOL/CHEM 50153.)

CHEM 50162 - Advanced Inorganic Chemistry Laboratory (2)

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.

CHEM 50163 - Advanced Inorganic Chemistry (3)

Three hours lecture per week. Prerequisite: CHEM 40123 or permission of instructor. A survey of topics in modern inorganic chemistry with emphasis on synthesis, bonding and the mechanisms of reactions.

CHEM 50182 - Biophysical Chemistry Laboratory (2)

Two 4-hour laboratory periods per week. Prerequisite: Prior or concurrent registration in CHEM 50183. Physical chemical principles applied to biochemical systems.

CHEM 50183 - Biophysical Chemistry (3)

Three hours lecture per week. Prerequisite: CHEM 40123 and prior or concurrent registration in CHEM 50143. Biological systems are discussed from the viewpoint of physical chemical theories and methods.

CHEM 50223 - Advanced Organic Chemistry (3)

Three hours lecture per week. Prerequisite: CHEM 30143, 30133 or permission of instructor. A detailed study of stereochemistry, important organic reactions and mechanisms, organic syntheses and fundamentals of synthetic design.

CHEM 50230 - Special Problems in Chemistry (1.00-6.00)

Advanced work in biochemistry, inorganic, organic and physical chemistry to be determined by the previous preparation and interests of the individual student.

CHEM 50263 - Physical-Organic Chemistry (3)

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.

CHEM 50273 - Inorganic Reactions (3)

Three hours 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.

CHEM 50282 - Advanced Physical Chemistry (2)

Two hours lecture per week. Prerequisites: CHEM 40133. An introduction to Quantum Chemistry and Statistical Thermodynamics is presented. Continuation of Chemistry 40123-40133.

CHEM 50290 - Chemical Thermodynamics (1.00-6.00)

Prerequisite: CHEM 40133 or permission of instructor. An introduction to the applications of thermodynamics in chemistry. 1-3 hours of variable credit

CHEM 50303 - Chemical Kinetics

Three lecture hours per week. Prerequisite: CHEM 40133. 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.

CHEM 50502 - Biochemistry Laboratory (2)

Two four-hour laboratory periods per week. Prerequisite: CHEM 50143 or concurrent registration. (Crosslisted as BIOL/CHEM 50502)

CHEM 50763 - Experimental Methods in Biochemistry and Biophysics (3)

Prerequisite: Permission of instructor. This course will introduce students to experimental techniques developed and used to investigate biological systems. It will discuss modern techniques used in the biomedical sciences, drug discovery and other biophysical and biochemical fields. The course includes lectures, demonstrations, and hands-on exercises in the TCU Biophysics Laboratory and on instrumentation at the Center for Commercialization of Fluorescence Technologies (CCFT) at the UNT Health Sciences Center campus. (Crosslisted as CHEM/PHYS 50763.)

CHEM 50783 - Environmental Chemistry (3)

Prerequisites: CHEM 10123 and 10122 or 10125 or 20123 or permission of instructor. Three hours 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. (Crosslisted as CHEM/ENSC/GEOL 50783.)

CHEM 50993 - Neurochemistry

Three lecture hours per week. Prerequisite: CHEM 50133 or permission of instructor. The elucidation of biomedical phenomena that subserve the characteristic activity of the nervous system or are associated with neurological diseases.

CHEM 60110 - Seminar (1.00-3.00)

Chemistry seminar. (This course is only offered P/NC.)

CHEM 60120 - Special Topics in Inorganic Chemistry (1.00-20.00)

Prerequisite: CHEM 50163 or permission of instructor. Significant advances in inorganic chemistry with emphasis upon material taken

from recent literature. The subject matter will be fitted to the needs and interests of the class.

CHEM 60123 - Chemistry of Heterocyclic Compounds (3)

Prerequisite: CHEM 50223 or equivalent. The synthesis and reactions of the principle heterocyclic systems, including some related natural products.

CHEM 60130 - Special Topics in Biochemistry (1.00-20.00)

Prerequisite: CHEM 50143. Specialized aspects and new developments in the field.

CHEM 60140 - Special Topics in Organic Chemistry (1.00-20.00)

Prerequisite: CHEM 50223 or equivalent. Recent advances in theoretical and synthetic organic chemistry. Highly specialized areas of organic chemistry may be taken up according to the needs of the class.

CHEM 60150 - Special Topics in Physical Chemistry (1.00-20.00)

Prerequisite: Permission of instructor. Topics of current interest in physical chemistry. The subject matter will be selected to meet the needs and interests of the class.

CHEM 60240 - Graduate Research in Inorganic Chemistry (1.00-20.00)

Graduate research in inorganic chemistry.

CHEM 60260 - Graduate Research in Organic Chemistry (1.00-20.00)

Graduate research in organic chemistry.

CHEM 60270 - Graduate Research in Physical Chemistry (1.00-20.00)

Graduate research in physical chemistry.

CHEM 60280 - Graduate Research in Biochemistry (1.00-20.00)

Graduate research in biochemistry.

CHEM 60313 - Quantum Chemistry

Prerequisite: CHEM 50282, Differential Equations is recommended. A brief review of the physical and historical background of quantum theory. The mathematical formalism along with some exactly solvable problems. Considerable time is spent on the approximate methods which are most applicable to chemical systems and allow a qualitative understanding of delocalization energies, spectra and chemical reactivity.

CHEM 60323 - Quantum Chemistry

Prerequisite: CHEM 50282, Differential Equations is recommended. A brief review of the physical and historical background of quantum theory. The mathematical formalism along with some exactly solvable problems. Considerable time is spent on the approximate methods which are most applicable to chemical systems and allow a qualitative understanding of delocalization energies, spectra and chemical reactivity.

CHEM 60333 - Statistical Mechanics

Prerequisite: CHEM 50290. After a brief mathematical introduction, the equilibrium theory of statistical mechanics is developed and used to interpret the laws of thermodynamics from the molecular standpoint. A detailed study of the relationships between the thermodynamic functions of gases, liquids and solids and their structure on the molecular scale.

CHEM 60500 - Seminar in Chemistry of Behavior (1-20)

Prerequisite: Permission of department chair. Weekly discussions of current topics in the Chemistry of Behavior. (Crosslisted as CHEM/PSYC 60500.)

CHEM 70771 - Non-Thesis

Selected when enrolling only for non-thesis examination or preparation for the examination.

CHEM 70980 - Thesis (1.00-20.00)

A minimum of 3 hours of CHEM 70980 Thesis is required.

CHEM 70990 - Thesis (1.00-20.00)

Prerequisites: CHEM 70980 and admission to candidacy. A minimum of 3 hours of CHEM 70990 Thesis is required.

CHEM 90000 - Postdoctoral Research (1.00-6.00)

Postdoctoral Research.

CHEM 90980 - Dissertation (1.00-20.00)

Prerequisite: Permission department chair. A minimum of 6 hours of CHEM 90980 Dissertation is recommended.

CHEM 90990 - Dissertation (1.00-20.00)

Prerequisite: CHEM 90980 and admission to candidacy. A minimum of 6 hours of CHEM 90990 Dissertation is recommended.

COMM - Communication Studies

COMM 50243 - "The Dark Side" of Interpersonal Communication" (3)

Prerequisites: COMM 20113. This advanced seminar is designed to provide an introduction to the various messages and message strategies that fall within the purview of the dark side of interpersonal communication. Students will examine a variety of interpersonal communication behaviors that problematize that is considered ethical, moral, and/or functional in healthy relationships, including jealousy, envy, revenge, conversational dilemmas, fatal attractions, deception, infidelity, and abuse, among others.

COMM 50970 - Special Problems in Communication Studies (1.00-3.00)

Prerequisite: Senior or graduate standing. Specialized work in student's area of concentration. 1-6 semester hours, 3 hours maximum per semester.

COMM 60113 - Interpersonal Communication (3)

Prerequisites: Communication Studies graduate student status or by permission of the instructor. Review of advanced theoretical constructs and recent research related to interpersonal communication. Comprehension, critical evaluation and applications will be stressed.

COMM 60123 - Communication Education (3)

Prerequisites: Communication Studies graduate student status or by permission of the instructor. Review and analysis of communication theory and research in instructional settings.

COMM 60143 - Communication and Social Influence (3)

Prerequisites: Communication Studies graduate student status or by permission of the instructor. Explores issues of influence, compliance and resistance in interpersonal relationships from a social science perspective. Influence reciprocity and consequences to relationships are examined as effects of everyday social interaction.

COMM 60153 - Topics in Communication (3)

Prerequisites: Communication Studies graduate student status or by permission of the instructor. Examines communication in the context of various contemporary social issues. Course topics may vary. Course may be repeated for credit for up to 9 hours.

COMM 60163 - Organizational Communication (3)

Prerequisites: Communication Studies graduate student status or by permission of the instructor. Addresses advanced concepts, issues and research methodologies applicable to communication processes in contemporary organizations.

COMM 60173 - Communication Research Methods (3)

Prerequisites: Communication Studies graduate student status or by permission of the instructor. Introduction to philosophy of graduate research; study of inferential and descriptive analysis, as well as correlational and experimental methodology and design.

COMM 60183 - Communication Theory (3)

Prerequisites: Communication Studies graduate student status or by permission of the instructor. Examination and evaluation of social, psychological and linguistic theory applied to human communication behavior.

COMM 60193 - Advanced Research Methods in Communication Studies (3)

Prerequisites: Communication Studies graduate student status or by permission of the instructor. Application of communication principles to organizational practice and/or research projects.

COMM 60203 - Family Communication (3)

Prerequisites: Communication Studies graduate student status or by permission of the instructor. Examines current theoretical perspectives, concepts, and research methodologies applicable to communication processes in families.

COMM 60213 - Social Networking Sites and Personal Relationships (3)

Prerequisites: Communication Studies graduate student status or by permission of the instructor. Explores theory and research related to interpersonal uses of communication technology. Students will critically examine research and theory on both early and recent forms of mediated interpersonal communication.

COMM 60293 - Communication and Social Cognition (3)

Prerequisites: Communication Studies graduate student status or by permission of the instructor. Reviews theory and research related to the interaction between cognitive processes such as attention, perception and memory and the processing of verbal and nonverbal messages.

COMM 60970 - Directed Study in Communication Studies (1.00-20.00)

Prerequisites: Communication Studies graduate student status or by permission of the instructor. Opportunity for individual work in a specialized area of concentration within the Communication Studies discipline.

COMM 70970 - Research Problems (1.00-20.00)

Advanced research on special problems in Communication Studies. Content will vary according to the needs and interests of students and faculty.

COMM 70980 - Thesis (1.00-6.00)

Prerequisite: Permission of chair.

COMM 70990 - Thesis (1.00-6.00)

Thesis

COSC - Computer Science

COSC 50123 - Object-Oriented Design and Programming (3)

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.

COSC 50133 - Formal Languages (3)

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.

COSC 50970 - Special Topics in Computer Science (1.00-20.00)

Prerequisite: Permission of instructor. (1-6 semester hours).

COSD-Comm-Sciences-Disorders

COSD 50300 - Clinical Practicum in Speech-Language Pathology II (1.00-6.00)

Prerequisite: COSD 40300 with a grade of C or higher, senior standing, and a cumulative TCU GPA of 3.0 or higher, and a cumulative 3.00 GPA or higher in COSD course, MATH 10043, one physical science course, one social/behavioral science course and biological sciences. Student must be recommended for enrollment by COSD faculty. A minimum of one semester required for undergraduate students. Supervised clinical experience in management of the most common speech and language disorders.

COSD 50323 - Interaction Skills for Health Professionals (3)

Prerequisite: Senior or graduate standing. A combination of critical thinking, counseling, and leadership skills designed to prepare students to effectively communicate and work with clinical populations and their families. Appropriate strategies and techniques are explored with practical application experiences included.

COSD 50342 - Advanced Aural Rehabilitation (2)

Prerequisite: Senior standing and COSD 30343 and 30363, both with a grade of C or higher, or graduate standing, 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.

COSD 50350 - Clinical Practicum in Audiology (1.00-3.00)

Prerequisites: COSD 30343 and COSD 30363, all with a grade of C or higher, junior standing, a cumulative TCU GPA of 3.0 or higher, and a cumulative 3.0 or higher GPA in COSD courses, MATH 10043, and one physical science course, one social/behavioral science course and biological sciences, and permission of instructor. Supervised clinical experiences in basic audiological testing techniques involving assessments and evaluation of the hearing function. 1-3 semester hours.

COSD 50363 - Seminar on Stuttering (3)

Prerequisite: Senior (with permission of instructor) or graduate standing. 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.

COSD 50382 - Voice and Resonance (2)

Prerequisite: Graduate standing. A study of theories, classification systems and etiologies, with emphasis on respiration, phonation, resonance and articulation factors as they relate to disorders of voice, resonance and compensatory articulation.

COSD 50413 - Advanced Speech Sound Disorders (3)

Prerequisite: Graduate standing. A study of theories, diagnostic materials, etiologies, and intervention models with emphasis on the phonological productions of children with highly unintelligible speech, childhood apraxia or speech, and mild-moderate articulation errors.

COSD 50840 - COSD Study Abroad - Chile & Argentina (1.00-20.00)

Prerequisites: Permission of instructor(s) and meeting criteria established by the TCU Center for International Studies. This 3-week course is an international interprofessional education experience centered on health care and health professions, and is designed for students in Communication Sciences and Disorders, Nursing, Social Work, and other related health or education professions. Graduate and undergraduate students will experience the language and culture of Chile and Argentina while developing familiarity with the role of health professionals in medical and educational settings serving individuals across the lifespan. Students will engage in a number of classroom-based and hands-on learning activities related to health care, visit academic universities training health professionals, and experience practice sites serving the local and regional populations.

COSD 50850 - China: Global Perspectives on Communication Health (1.00-6.00)

Prerequisite: COSD 10303. This course will enhance students' global perspectives about communication health in a culture strikingly different from the US. Specifically, students will increase their understanding of the nature and treatment of communication disorders in China. Students will be exposed to the unique delivery of speech language pathology services in a country where there are very few established degree granting programs in a country of 1.33 billion people (Liu, 2014).

COSD 50860 - COSD Study Abroad - Scotland, England, and Ireland (1.00-20.00)

Prerequisite: COSD 10303. The course will look at the practice of Speech-Language Pathology in Ireland, Scotland and Great Britain. Students will visit numerous sites throughout these countries and compare/contrast the practices at these facilities to the United States. Additionally, cultural and semantic differences will be observed and discussed.

COSD 50870 - COSD Study Abroad - Australia (1.00-20.00)

Prerequisites: permission of instructor(s) and meeting criteria, established by the TCU Center for International Studies. The purpose of this course is to increase students' knowledge of and skills in evidence-based clinical practice (EBP) in the field of speech-language pathology. Course content includes background learning in preparation for study abroad followed by travel to Sydney, Australia and Christchurch and Wellington, New Zealand. Students will visit universities and a variety of practice sites conducting and implementing EBP with children and adults with communication disorders. Students must meet the criteria established by the TCU Center for International Studies as well as departmental requirements.

COSD 50970 - Directed Studies in Communication Disorders (1.00-6.00)

Prerequisites: Senior or graduate standing; permission of instructor. Directed study focusing on specialized topic in communication sciences and disorders. (1-6 semester hours.)

COSD 60213 - Teaching Spoken Language to Persons with Hearing Loss (3)

Prerequisite: Audiology with a grade of C or higher or permission of instructor. Advanced study of communication development in children with hearing loss. Topics include detailed study of spoken languages, including articulation, prosody and voice production in hearing impaired children and adults.

COSD 60253 - Clinical Lab 2 in Teaching DHH Students (3)

Prerequisite: COSD 60223 with a grade of C or higher. Students must be recommended for enrollment by COSD faculty. Observation and supervised clinical teaching of DHH students.

COSD 60276 - Field Practicum in DHH (6)

Prerequisite: COSD 60223 60253 with a grade of C or higher. Students must be recommended for enrollment by COSD faculty. Observation and supervised clinical teaching of DHH students.

COSD 60223 - Clinical Lab in Teaching DHH Students I (3)

Prerequisite: COSD 50373 and 60213, both with a grade of C or higher, or permission of instructor. Observation and supervised clinical teaching of DHH children and adults in an individual setting.

COSD 60233 - Advanced Language Development for DHH (3)

Prerequisite: COSD 60233 with a grade of C or higher, or permission of instructor. Advanced study of language principles and language usage for intermediate and advanced levels with the deaf and hard of hearing.

COSD 60243 - Teaching Elementary School Subjects to DHH Children (3)

Prerequisite: COSD 60213 60233, or permission of instructor. Advanced study of curriculum materials and teaching methods for meeting specialized needs of deaf and hard of hearing children, in the learning of reading and developing concepts and relationships in arithmetic and science.

COSD 60263 - Advanced Language Development for DHH (3)

Prerequisite: COSD 60233 with a grade of C or higher, or permission of instructor. Advanced study of language principles and language usage for intermediate and advanced levels with the deaf and hard of hearing.

COSD 60300 - Practicum in Speech-Language Pathology (1.00-6.00)

Prerequisites: Graduate standing in speech-language pathology and permission of instructor. Advanced clinical practice and evaluation of speech and language disorders. One semester hour required for each semester a student performs clinical practice up to six hours.

COSD 60322 - Advanced Counseling in Communication Sciences and Disorders (2)

Prerequisites: Completion of academic and clinical coursework in 1st year of SLP Master's degree program. This course teaches a framework for engaging in counseling with special populations and their families, with a focus on the communicatively impaired. Appropriate counseling strategies and tools are explored with practical application experiences included. Multicultural implications for counseling are also considered.

COSD 60343 - Advanced Language Disorders in Children (3)

Prerequisites: Graduate standing in speech pathology and permission of instructor. Principles in the assessment and treatment of language disorders in infants, preschoolers, school-aged and adolescents.

COSD 60363 - Orofacial Pathologies/AAC (3)

Prerequisite: COSD 30303 or permission of instructor. This two-part course includes study of the pathology of structure and function of the speech mechanism as related to cleft palate followed by a study of the use of augmentative and alternative technology for individuals with severe communication disorders.

COSD 60383 - Advanced Study of Language and Language Development (3)

Intensive study and analysis of language in normal children at various developmental levels.

COSD 60390 - Seminar on Communication Disorders (1.00-20.00)

In depth study of a communication disorder. Seminar content may vary and may include such topics as dysphagia, organic disorders in children, assessment and treatment of voice disorders, and assessment and treatment of articulation disorders. Three hour maximum per semester.

COSD 60413 - Adult Neurolinguistic Disorders (3)

This course will assist students to understand the structure and function of central and peripheral nervous systems in relation to normal and disordered language and cognition.

COSD 60423 - Dysphagia (3)

This course will assist students in learning the theoretical and clinical bases for the differential diagnosis of neurologically based communication disorders in adults and assessment and treatment of dysphagia in adults and children. Case studies, videotaped analyses, and/or clinic stimulation exercises will be used in class and/or a required lab to facilitate application of knowledge to clinical practice.

COSD 60433 - Motor Speech Disorders (3)

Prerequisites: COSD 60423 with a grade of C or higher or consent of instructor. This course will assist students in learning the theoretical and clinical bases for the assessment and treatment of neurologically motor based communication disorders in adults. Case studies, videotaped analyses, and/or clinic stimulation exercises will be used in class to facilitate application of knowledge to clinical practice. Supporting

COSD 60443 - Multicultural Issues in Communication Disorders (3)

Prerequisites: Graduate standing in speech-language pathology and consent of instructor. Study of multicultural considerations for children and adults with communication disorders. Topics will include socio-cultural influences on speech and language development, educational considerations, non-biased assessment, and cultural and linguistic considerations in treatment planning. Issues of dialect, languages other than English, and bilingualism will be discussed.

COSD 60453 - Speech, Language, and Cognition in Bilinguals (3)

Prerequisites: Graduate standing in speech-language pathology or consent of instructor. Study of research related to cross-linguistic and multilingual speech and language development, neurolinguistics, psycholinguistics, and sociolinguistics. Includes current practices in the assessment and treatment of communication impairments in non-English speaking and bilingual adults and children.

COSD 60463 - Early Intervention (3)

Prerequisite: Graduate standing in speech-language pathology and consent of instructor. This course focuses on theoretical and practical preparation for the diagnosis and treatment of primary and secondary speech and language delays and disorders in infants and toddlers. The course will address markers of language delay/disorder in pre-verbal infants and early language learners, principals of intervention for families with an emphasis on Routines Based Intervention, and cost-benefit analyses of early intervention with language-disordered populations. Students will understand federal and state legislation related to the early intervention service provision and coordination.

COSD 60970 - Directed Studies in Communication Disorders (1.00-20.00)

Prerequisites: Permission of instructor. Advanced study of specialized topic in communication sciences and disorders.

COSD 70313 - Assessment and Treatment of Stuttering (3)

Prerequisites: COSD 50363; senior or graduate standing. A study of the assessment and treatment of stuttering in preschool, school-aged, and adults who stutter. Assessment issues including behavioral and attitudinal analyses are reviewed. Differential treatment is discussed in terms of current therapies.

COSD 70323 - Research in Communication Sciences and Disorders (3)

A review of research design and evaluation in communication sciences and disorders. Emphasis on improved skills in both consuming and producing research in the fields of speech science, speech-language pathology and audiology.

COSD 70980 - Thesis (1.00-6.00)

Thesis

COSD 70990 - Thesis (1.00-6.00)

Thesis

CRES - Comp Race and Ethnic Studies

CRES 60003 - Graduate Introduction to Comparative Race and Ethnic Studies (3)

Prerequisites: Admission to the CRES Graduate Certificate. This course aims to give students a broad, general understanding of the multifaceted field that has come to be known as Comparative Race and Ethnic Studies in the United States. Critical Race Theory serves as a central theoretical framework for students to understand the concepts of race and ethnicity, their intersections with other concepts such as gender, and their manifestations in society. The course traces the historical trajectory of the field from its founding to the current manifestations.

CRES 70001 - Portfolio (1)

Prerequisites: Completion of CRES 60003 and two CRES electives. This culminating course in the CRES Graduate Certificate aims to prepare students to complete a CRES capstone portfolio representing the student's work through the Graduate Certificate's course of study. The portfolio will demonstrate both the development of student learning as well as showcase items that are products of the student's learning in the CRES Graduate Certificate. The portfolio will be judged by a CRES core faculty committee.

CRJU - Criminal Justice

CRJU 61113 - Introduction to Online Learning and Critical Thought (3)

This introductory course orients students with the online environment and presents critical issues in criminal justice and criminology that serve as the basis for the online program. Students will learn practical as well as theoretical matters by navigating and interacting within the online environment, conduct in-depth literature reviews, learn program expectations, and analyze current empirical research that is fundamental to the discipline.

CRJU 61123 - Criminal Justice Systems (3)

An in-depth analysis of police, courts, and corrections highlights crucial issues affecting crime and policy. A holistic view is stressed, where students are expected to identify these issues, integrate independent research, and suggest crime control policies and strategies using empirical and theoretical support.

CRJU 61133 - Advanced Social Science Research Methodology (3)

Research methodologies and design in the social sciences are examined using three approaches: qualitative, quantitative, and mixed. Each methodology will begin with philosophical and theoretical assumptions before students engage in hands-on empirical research. Writing and presentation of methodologies tailored to each student's thesis will be heavily emphasized.

CRJU 61143 - Social Science Statistics and Probability (3)

This course gives students a fundamental understanding of statistics and probability in the social sciences. Students will learn and apply theoretical statistical models to calculate simple and more complex statistical models. This understanding will be used as a basis to run different tests of significance related to inferential statistics.

CRJU 61183 - Advanced Criminological Theory (3)

This course gives students in-depth understandings of criminological theories that serve as the basis for criminological research and scholarship. A variety of theoretical paradigms will be examined, critiqued, and applied towards empirical research. Each major theory will be analyzed, from its historic roots to its contemporary application in empirical research.

CRJU 61193 - Applied Research and Policy 1 (3)

This course focuses on applied criminological concepts and theories to real-world problems. Students will deconstruct complex problems related to the criminal justice system, particularly policies and strategies dealing with prisons, prisoner reentry, and crime prevention.

CRJU 61253 - Policing (3)

This course takes an in-depth and comparative analysis of policing in the United States. Key issues and strategies in contemporary policing will be contextualized historically and internationally. The police subculture, in particular, will be discussed in detail and used to analyze key reforms

which lead up to contemporary strategies such as broken windows and community policing.

CRJU 61263 - Courts, Law, and Legal Procedure (3)

This course deconstructs and analyzes the American legal system. Students will learn legal procedure, reasoning, and functions of the courts, laws and legal actors. Moreover, students will examine a range of court cases that highlight critical issues. Landmark U.S. Supreme Court cases, in particular, will be used as models in order to understand advanced legal reasoning, legal theory, and the decision-making process.

CRJU 61273 - Corrections and Reentry (3)

This course takes a critical look at the correctional system in the United States and how prisoners re-enter society. A historic look at the development of corrections and punishment is framed within the context of legal and political frameworks, paying particular attention to crime control policies and their ramifications. Students will assess current prison conditions and critical reentry issues, including parole, reentry services, and societal conditions.

CRJU 61283 - Research Writing (3)

This course is designed to help familiarize students with the publication process in the social sciences. Students will learn the components of research, the writing process, and procedures with publication. The purpose of the course is to produce a publishable manuscript.

CRJU 61293 - White-Collar Crime (3)

This course examines white-collar crime using a theoretical and practical approach. Difficulties defining, identifying, and enforcing white-collar crimes will be emphasized by drawing from empirical research. The law and society theoretical framework will be used to examine societal perceptions and responses to white-collar criminals, paying particular attention towards systemic treatment of race and class in the American criminal justice and legal systems as well as society.

CRJU 61303 - Critical Issues in Law Enforcement (3)

Prerequisites: Acceptance to graduate program or certificate program. This graduate-level policing seminar explores controversial issues in policing ranging from police misconduct to community-police relations. The course will be contextualized in contemporary research. Students will explore the underlying reasons and root causes of policing issues to inform policies, training, and practices. In addition, future directions in policing and policing policy will be explored.

CRJU 61313 - Law Enforcement Management and Leadership (3)

Prerequisites: Acceptance to graduate program or certificate program. This graduate-level policing seminar explores management and leadership issues in policing. The course will be contextualized in criminal justice management and leadership research. Various leadership issues that affect police operations will be explored, ranging from organizational communication to organizational change.

CRJU 61323 - Legal Issues in Law Enforcement Management (3)

Prerequisites: Acceptance to graduate program or certificate program. This graduate-level policing seminar explores legal issues in policing. This course will be contextualized in criminological and legal research. Various legal issues that affect police operations will be explored, ranging from use of force to issues of searches and seizures. Different legal topics will be explored weekly. Legal nuances will be discussed in depth, including specific state and federal statutes, as well as in the context of larger Constitutional frameworks, such as privacy and equal protection.

CRJU 61333 - Law Enforcement Policy and Practice (3)

Prerequisites: Acceptance to graduate program or certificate program. This graduate-level policing course applies course material learned in various courses and applies them to police policies and practice. The course will be contextualized in contemporary research. Students will tailor their policies with their home department/agency and present their own policy-related issues for the class discussion. Students will incorporate the criminological research as well as published data on crime, crime prevention, and police.

CRJU 61393 - Applied Research and Policy 2 (3)

This course focuses on applied criminological concepts, theories, and research to real-world problems focused on the theme of an area of the instructor's expertise. Students will dissect complex and controversial issues in a timely criminal justice topic, focusing specifically on crime prevention and policy.

CRJU 70980 - Thesis (1.00-3.00)

This course is designed for independent thesis writing in consultation with the student's faculty advisor. Credits may be spread throughout the program to facilitate the thesis writing process.

CRJU 70990 - Thesis (1.00-3.00)

This course is designed for independent thesis writing in consultation with the student's faculty advisor. Credits may be spread throughout the program to facilitate the thesis writing process.

CRWT - Creative Writing

CRWT 55103 - Creative Nonfiction Workshop I (3)

Prerequisites: CRWT 10203 or CRWT 20103. A creative nonfiction writing class for students with some experience in creative writing. In this course, students will get experience writing memoir, personal essays, autobiography, oral history, and in other nonfiction genres. The course may also include reading of major nonfiction writers from the Renaissance to the present. Student cannot receive credit for CRWT 55103 and CRWT/ENGL/WRT 30233.

CRWT 55153 - Fiction Writing Workshop I (3)

Prerequisites: ENGL/WRT/CRWT 10203 or ENGL/WRT/CRWT 20103 or ENGL/WRT/CRWT 20133. A fiction writing class for students with some experience in creative writing. Student cannot receive credit for CRWT 55153 and CRWT 30343.

CRWT 55273 - Poetry Workshop I (3)

Prerequisites: ENGL/WRT/CRWT 10203, ENGL/WRT/CRWT 20103 or ENGL/WRT/CRWT 20133. A poetry writing class for students with some experience in creative writing. Student cannot receive credit for CRWT 55273 and CRWT 30353.

CRWT 55313 - Drama Writing Workshop II (3)

Prerequisites: CRWT 10203 or 20103. An advanced dramatic writing workshop, focusing on the growth of students' own work in playwrighting and/or screenwriting. Prior to enrollment, students are strongly encouraged to take another 30000-level course in creative writing. Student cannot receive credit for CRWT 55313 and CRWT 40223.

CRWT 55363 - Digital Creative Writing (3)

Prerequisites: ENGL/WRT/CRWT 10203 or ENGL/WRT/CRWT 20103 or ENGL/WRT/CRWT 20133. Explores the composition of creative work using digital technologies - collage, graphic narratives, multimedia poetry/fiction, and creative short animations. Course emphasizes concepts in creative writing, multimedia, and authorship in digital environments. Students design and compose a variety of multimedia products incorporating typography, image, and other modes. Student cannot receive credit for CRWT 55363 and CRWT 30363.

CRWT 55133 - Creative Nonfiction Workshop II (3)

Prerequisites: ENGL/WRT/CRWT 10203, ENGL/WRT/CRWT 20103 or ENGL/WRT/CRWT 20133. A creative nonfiction writing class for students with some experience in creative writing, this a craft/workshop course intended for advanced writers who have a committed interest in creative non-fiction (such as personal essay, literary journalism, travel writing, science writing, memoir, and other non-fiction genres) and are comfortable writing longer works of prose. As a workshop, students will work cooperatively to share and improve each others' work during the semester. Student cannot receive credit for CRWT 55133 and ENGL/WRT/CRWT 40133.

CRWT 55143 - Studies in Creative Writing (3)

Prerequisites: CRWT 10203, CRWT 20103, or CRWT 20133. Prior to enrollment, students are also strongly encouraged to take an upper-division creative writing course. Studies in Creative Writing is an intensive creative writing workshop open to students (graduate and advanced undergraduates) who have a strong background in literature and imaginative writing. Depending on the semester and the selected genre, this course will pay special attention to invention, point-of-view, voice, form, and genre-appropriate theory. Student cannot receive credit for CRWT 55143 and ENGL 50233.

CRWT 55163 - Fiction Writing Workshop II (3)

Prerequisites: ENGL/WRT/CRWT 10203 or ENGL/WRT/CRWT 20103. An advanced fiction-writing workshop, focusing on the growth of students' own work. Prior to enrollment, students are also strongly encouraged to take ENGL/WRT 30343 (Fiction Writing Workshop I). Student cannot receive credit for CRWT 55163 and ENGL/WRT/CRWT 40203.

CRWT 55173 - Poetry Writing Workshop II (3)

Prerequisites: ENGL/WRIT/CRWT 10203 or ENGL/WRIT/CRWT 20103. An advanced poetry-writing workshop, focusing on the growth of students' own work. Prior to enrollment, students are also strongly encouraged to take ENGL/WRIT/CRWT 30353 (Poetry Writing Workshop I). Student cannot receive credit for CRWT 55173 and ENGL/WRIT/CRWT 40213.

CRWT 55223 - Drama Writing Workshop II (3)

Prerequisites: ENGL/WRIT/CRWT 10203, ENGL/WRIT/CRWT 20103 or ENGL/WRIT/CRWT 20133. An advanced dramatic writing workshop, focusing on the growth of students' own work in playwriting and/or screenwriting. Prior to enrollment, students are strongly encouraged to take another 30000-level course in creative writing. Student cannot receive credit for CRWT 55223 and CRWT 40223.

CRWT 55213 - Drama Writing Workshop I (3)

Prerequisites: ENGLWRIT/CRWT 10203, ENGL/WRIT/CRWT 20103 or ENGL/WRIT/CRWT 20133. A dramatic writing workshop, focusing on the growth of students' own work in playwriting and/or screenwriting. Student cannot receive credit for CRWT 55213 and CRWT 30373.

CRWT 55703 - Advanced Multi-Genre Workshop (3)

Prerequisites: CRWT 10203, or CRWT 20103, or CRWT 20133, plus the prior completion of a 30000-or 40000-level Creative Writing Workshop with a grade of at least B-. The Advanced Multi-Genre Workshop is a craft/workshop course in writing poems, fiction, and creative non-fiction. This class is intended for students who are dedicated to creative writing, who have a strong background in creative writing and sustained experience workshoping. This class is repeatable for credit. Student cannot receive credit for CRWT 55703 and CRWT 40703.

CRWT 55973 - Directed Study in Creative Writing (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one 10000-or 20000-level ENGL/WRIT/CRWT course. Directed Study in Creative Writing.

ECON - Economics

ECON 50453 - Macroeconomic Studies (3)

Prerequisites: A 'C-' or better in 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.

ECON 50463 - Perspectives in Macroeconomics (3)

Prerequisites: A 'C-' or better in ECON 30233 or graduate standing in business. Analysis of macroeconomic issues in theory and policy from the perspective of competing schools of thought. Special emphasis will be placed on how each approach explains post-1970 business cycles, inflation, and unemployment in the U.S. economy.

EDAD - Education Administration

EDAD 60103 - Administrators, Schools and Districts (3)

Prerequisite: Must be admitted to Graduate Education. Relationships between different organizational patterns and administrative practices will be explored as well as the role of authority and decision making structures. Required of all majors in Educational Administration.

EDAD 60113 - Administrators and Teachers (3)

Prerequisites: Admitted to Graduate Education. It will include concepts and issues derived from leadership, supervision, and law.

EDAD 60123 - Administrators, Parents and Children (3)

Prerequisite: Admitted to Graduate Education. Foci will include community relations, communication, creating orderly, productive learning environments, and law.

EDAD 60133 - Trends and Issues in Educational Administration (3)

Prerequisite: Must be admitted to Graduate Education. The course will normally be taught collaboratively with practicing administrators.

EDAD 60143 - Administrative Life (3)

Prerequisite: Must be admitted to Graduate Education. This course is normally taken concurrently with EDAD 70200 Internship in Educational Administration. The course synthesizes prior course work, integrates new experiences from the Internship, and considers the alternatives each

individual confronts in developing an administrative life, the jobs, technical and ethical demands, stresses and satisfactions.

EDAD 70001 - Doctoral Pro-Seminar (1)

This course may be taken twice for a total of 2 semester hours.

EDAD 70003 - Foundational Readings in Educational Administration (3)

Prerequisite: Admitted to Graduate Education. This course will examine the professional and intellectual history of educational administration.

EDAD 70013 - Legal and Social Environment of Education (3)

Prerequisite: Must be admitted to Graduate Education. Educational institutions operate within an environment that requires relationships with families, employees, and other private and public institutions. The primary focus of this course will be state and federal laws that regulate these relationships, with attention paid as well to social and political forces that influence the enforcement of laws.

EDAD 70023 - Theory and Management of Education Systems (3)

Prerequisite: Must be admitted to Graduate Education. High achieving districts are led by administrators that focus on academic programs, set attainable goals, continuously assess the curriculum, evaluate staff and teachers, and assess student achievement. This course will highlight the importance of instructional leadership and of developing effective evaluation processes as well as professional development opportunities.

EDAD 70033 - Ethics & Equity-Oriented Leadership (3)

Prerequisite: Admission to a graduate program within the College of Education or admission to a graduate program outside of the College of Education and permission of the instructor. This course emphasizes enduring educational problems and fundamental philosophical issues, concepts that feature centrally in educational discourse, ethical standards and dilemmas, and conceptual analysis as a means for clarifying decisions regarding educational policy and practice. The course also attends to the intersection of ethical decision-making in educational contexts and various conceptions and applications of equity (e.g., equity initiatives, but also equity as it is centered or decentered within decision-making around a range of school district functions, from resource allocation to testing/student placement, to a range of student and school outcomes, to human resource functions).

EDAD 70043 - Educational Policy and School Finance (3)

Prerequisite: Admission to a graduate program within the College of Education or admission to a graduate program outside of the College of Education and permission of the instructor. This course investigates the formation, implementation, and evaluation of educational policy in educational systems, and the role that policy plays at the federal, state, and local levels specific to school finance. The leader's/administrator's role in creating/sponsoring, utilizing and adapting policy will be of core concern. The course will also focus on the political processes associated with school finance in terms of school funding, resource allocation, and the role of school finance equity in promoting or hindering school efforts at leveraging improved outcomes.

EDAD 70053 - Applied Research: Economics of Education (3)

Admission to the Ed.D. Program or permission of the instructor. Empirical research on topics in education is frequently conducted using methods particular to the discipline of economics. Given the complex nature of the education process, it is not surprising that studies examining the same issue often reach different, often contradictory, conclusions. This course will systematically examine literature related to the economics of education.

EDAD 70063 - Data-Informed Decision-Making (3)

Prerequisites: Admission to the Graduate School at TCU and the College of Education Ed.D. program, or permission of the instructor. This course will explore various aspects of educational data use from a leadership perspective. Practitioner texts and peer-reviewed scholarship will be used to inform dialogue and class activities and assignments. The course will equip students with practical tools to address aspects of sustainable and effective data use in the now, and will engage students in academic dialogues that help them address data-related issues still on the educational horizon.

EDAD 70073 - Capstone/Dissertation Seminar (3)

Prerequisites: Must be admitted to Graduate Education. PhD students must have completed at least 45 hours of doctoral coursework, and should have completed comprehensive exams successfully by the time they take the course. EdD students registered for this course must have completed at least 18 hours of doctoral coursework. This course (for PhD

students) or sequence of courses (for EdD students) is aimed at ensuring that students are fully prepared to begin work on the capstone project or dissertation and are able to demonstrate a range of skills and abilities, including an ability to frame a capstone project or dissertation; undertake an appropriate literature review; make decisions regarding design and implementation of the project or study, and, in other respects, complete the qualifying process.

EDAD 70200 - Internship in Educational Administration (1.00-6.00)

Prerequisite: Must be admitted to Graduate Education. Planned program of leadership responsibilities in an educational institution or agency, commensurate with the student's graduate program, certification objectives, and employment goals. Emphasis on research application in a field-based setting. Responsibilities and projects are under the direction of the academic advisor and on-site supervisor.

EDAD 80206 - Internship (6)

Prerequisite: Must be admitted to Graduate Education. A semester-long internship providing leadership experiences in an educational or corporate setting commensurate with the student's doctoral program. This course can be repeated three times for a total of 18 semester hours.

EDAD 90770 - Capstone Project (1.00-20.00)

Prerequisites: Completion of all Ed.D. coursework, including EDAD 70073, Capstone Doctoral Seminar and approval of doctoral advisory committee. Students will propose and execute an approved capstone project, submit the written documentation and publicly present the capstone project as directed by their doctoral advisory committee. The capstone project replaces the traditional dissertation. A minimum of 9 credit hours are required; more hours may be taken when necessary.

EDCS - Education - Curriculum Studies

EDCS 50001 - Colloquium Curriculum Studies (1)

Prerequisites: Admission into graduate studies or permission of instructor. Each semester, the colloquium addresses a different contemporary problem significant to curriculum studies. Through readings, discussions, and presentations of scholarly activities; student will explore the semester's theme, further their knowledge of curriculum studies, and develop academic talents within a community of scholars. Non-Curriculum Studies students may join the colloquium with permission of instructor.

EDCS 70011 - Colloquium in Curriculum Studies (1)

The Colloquium in the Profession of Curriculum Studies is designed as an introduction to the practical and theoretical issues of the field for all first semester graduate students. Class sessions may include presentations made by faculty or students; lectures by guest speakers; round table on specific educational issues; attendance at professional conferences; or informational meetings.

EDCS 70963 - Apprenticeship in Teaching

Prerequisites: Permission of advisor in Curriculum Studies and agreement with mentoring faculty. Students apprentice with faculty in the teaching of undergraduate and master-level curriculum studies courses. Apprenticing will include course design, lectures, facilitation, student interaction, and assessment as negotiated with the mentoring professor. Time requirements will include preparation before class, scheduled class periods and events, and follow-up responsibilities after class.

EDCS 70973 - Teaching Diversity (3)

Prerequisites: EDCS 70963. In Teaching Diversity, doctoral students join Curriculum Studies faculty for co-teaching and teaching under faculty supervision the course EDUC 50003: Diversity in American Education. Course work includes course design, lectures, facilitation, student interaction, and assessment. Time requirements will include preparation before class, scheduled class periods and events, and follow-up responsibilities after class.

EDEC - Education - Early Childhood

EDEC 50143 - Early Childhood Curriculum (3)

Prerequisite: Admission to the Teacher Education Program. The study of basic principles underlying curriculum construction and instructional practices in early childhood and primary education.

EDEC 55123 - Learner Centered Teaching: Families (3)

Prerequisite: Admission to the Teacher Education Program, an Accelerated Masters program, and concurrent enrollment in Senior I courses. Provides a foundation for key theory, policy, and research trends informing family-school partnership practices and programming across the general and special education contexts. Also students will learn communication skills and associated practices for building relationships with family members within their broader scope of practice. Students will be exposed to varieties of family forms through didactic, interpersonal, and community/practical experiences.

EDEC 55313 - Educational Assessment (3)

Prerequisite: Admission to the Teacher Education Program and an Accelerated Masters program. This course examines assessment and evaluation methods, strategies, and procedures within the classroom context. Both formal and informal methods of gathering educational information and monitoring children's progress will be integral parts of this course. Students learn how to develop appropriate assessment and interpret assessment information for educational program planning. Students also learn how to make modifications and accommodations for testing students who are English language learners and students with disabilities.

EDEC 55663 - Motivating and Managing Students in the Classroom (3)

Prerequisite: Admission to the Teacher Education Program and Accelerated Masters program. This course covers content related to: designing effective classroom environments to support appropriate student behavior and prevent challenging behavior and designing individualized plans for students who require more intensive behavioral support.

EDEC 60133 - Play and Creativity (3)

Research-based methods for creating experiences and environments for young children that support playful and creative learning opportunities. Current research and issues around appropriate practices with young children will be included.

EDEC 60173 - Practicum in Early Childhood Education (3)

All-day observation and supervised teaching for a period of six weeks in the public schools. Accompanying regularly scheduled class meetings on the campus for the entire semester for the purpose of developing competencies and professional growth.

EDEC 60223 - The Young Child (3)

Prerequisite: Admitted to Graduate Education. Study of research on behavior of young children and application to planned learning experiences.

EDEL - Education - Elementary

EDEL 60043 - Seminar in Elementary School Science

Advanced study of current issues in science education and of curricula, materials, and techniques utilized in the effective teaching of elementary school science.

EDEL 60813 - Infant/Toddler Development and Intervention

Prerequisite: Admitted to Graduate Education. Examines: the overall development of the infant and toddler from birth to three years; specialized services and early intervention; assessment strategies; collaboration skills; biomedical ethics and issues; care and collaboration of the medically fragile; methods and strategies to support and set up developmentally appropriate learning environments; federal rules and regulations of Part C under IDEA.

EDGU - Education - Guidance Counselor

EDGU 50223 - Helping Relationships (3)

Prerequisite: Admission into counseling program or developmental trauma program. Examination and practice of specific skills and processes essential to the development of helping relationships. Emphasis is placed on the development of interpersonal skills and professional ethics necessary to counseling.

EDGU 50323 - Small Group Counseling (3)

Prerequisite: Admission into counseling program or developmental trauma program. Study of the group as an interactional system,

including: group process, group roles, guidelines for group selection and guidance, techniques for facilitating interaction, strategies for building credibility in groups, and the impact of life styles on group needs.

EDGU 60003 - Counseling Diverse Populations (3)

Prerequisite: Admission to the Counseling program. A theoretical and skill development course for counselors to strengthen multicultural sensitivity, awareness, knowledge and skills. This class is designed to effectively prepare students for working in a diverse society by supporting appreciation of difference, acknowledging strengths and similarities among people, and learning to think and act ethically when delivering mental health services and advocating for clients.

EDGU 60113 - DSM: Diagnosis and Treatment (3)

Overview of DSM disorders, their prevention and treatment.

EDGU 60133 - Addictions Counseling (3)

Principles and practices of drug and addiction education and abuse prevention with special application to the functions of counselors. Students will learn about the impact of addictive substances on the brain, co-occurring disorders, models of addiction, levels of treatment, assessments used to identify substance abuse, and evidence-based practices in the field of addictions counseling. Students will also learn about the assessment and treatment of behavioral/process addictions, with specific attention paid to the similarities and differences between substance and process addictions. Three credits.

EDGU 60143 - Counseling Interventions (3)

Prerequisite: EDGU 50223. Examination of techniques, strategies and methods of counseling; strategies to deal with resistant clients and acting out children; approaches to parent and professional consultation; crisis intervention issues and resources, and ethical and legal issues in the practice of counseling.

EDGU 60153 - Introduction to Play Therapy (3)

Prerequisites: Enrollment in Counseling Program, Child Development, or master's program in elementary or special education. Academic and experiential study of the basic principles, history, and theories of play therapy, developmentally appropriate interventions for children, and the utilization of play to facilitate children's self-exploration, self-expression, self-understanding, and personal growth.

EDGU 60163 - Abnormal Human Development (3)

Diagnosis, assessment, and treatment of adults with consideration for biological, interactional, and systemic forces that contribute to or enhance treatment of mental disorders.

EDGU 60213 - Introduction to Marriage and Family Therapy (3)

Prerequisite: Admitted to Graduate Education. Examination of systems theory and the varying theoretical constructs, including strategic, structural, experiential, brief, and communication approaches.

EDGU 60223 - Advanced Counseling Skills and Ethics (3)

Prerequisites: Admission to EDGU, EDMH, or EDSA graduate program AND completion of EDGU 50223. This course further examines counselor ethics, including records management, an overview of business/family law and professional practice, the study of current LPC rules, and other topics of counselor practice such as business and family law practice, CPS reporting, and suicidal ideation procedures. This course is also designed to provide supervised experiences and critiques of recorded practice for the development of counselor presence and individual counseling techniques. Opportunities will be provided to discuss, observe, and demonstrate effective counseling behaviors in an effort to prepare students for practice.

EDGU 60233 - Career Development and Information (3)

Orientation to life planning and the world of work; theoretical models of career choice; examination of career information and resources and systems of career information utilization.

EDGU 60313 - Motivating and Managing Students (3)

Prerequisites: Admission into counseling program. Provide basic motivational and management procedures, which are applicable to a number of different educational environments. Emphasis is placed on the management of environments, instruction, and children behaviors, especially children with challenging behaviors.

EDGU 60323 - Assessment in Counseling (3)

The purpose of this course is to help counselors become better consumers of psychological and educational instruments designed to measure and assess those characteristics/factors necessary to assist

clients in achieving optimal development. This course will instruct counseling students in the development, administration, scoring and interpretation of assessment measures.

EDGU 60383 - Counseling Theories and Techniques (3)

Prerequisite: Must be admitted to Graduate Education. Orientation to established theories of counseling by examining and evaluating each theory's philosophical background, goals, and techniques and conceptualizing cases based on one's theoretical approach; consider issues in crisis counseling; and discuss ethical issues as they apply to hypothetical cases.

EDGU 60403 - Theories of Student Development (3)

Prerequisites: Admission into counseling program. This course explores the cognitive, affective, social, and moral development of young adulthood with a special emphasis on developmental and contextual risks and resiliencies that affect best practices in higher education.

EDGU 60613 - Guidance and Counseling Programs (3)

Prerequisite: Admission to the counseling program. Focus the development and implementation of school guidance programs, the services essential for effectiveness, coordination of pupil services with other elements of the educational program, strategies to build community resources and relationships, and program evaluation needs.

EDGU 70003 - Advanced Human Systems (3)

Prerequisite: EDGU 60213 or permission of the instructor. Study of theories using metaphors of systems, pattern, and context to describe human behavior and relationships, particularly the ideas of Gregory Bateson and other systems/cybernetics thinkers. Emphasis is on interrelationships between mind, body, environment, and social aspects of behavior as they related to family and school systems.

EDGU 70013 - Language Systems (3)

Prerequisite: EDGU 60213 or permission of instructor. A close examination of solution-focused, narrative, collaborative, reflecting team, and other postmodern approaches to counseling, locating these practices of counseling within cultural, philosophical, and scientific domains. Used notions about the relational nature of language as a means to critique and further develop language-based systems approaches in therapeutic practice.

EDGU 70023 - Teaching Helping Relationships (3)

Prerequisites: Admission to the Counseling and Counselor Education program and permission of instructor. Development of theory and practice regarding skill and process training with beginning counselors. Emphasis is on didactic strategies, as the course includes teaching and mentoring. This course will be taught jointly with EDGU 50223.

EDGU 70033 - Orientation and Ethical Practice in Clinical Mental Health Counseling (3)

Prerequisites: Admission to clinical mental health counseling (EDMH) or permission of instructor. This course provides an overview of the field of clinical mental health counseling. Topics include: professional roles and functions, specialties, employment trends, preparation standards, credentialing, professional organizations, ethical standards, and legal aspects of practice nationally and statewide.

EDGU 70043 - Philosophical Underpinnings of Psychotherapy (3)

Prerequisites: Admission to the Counseling and Counselor Education program and permission of instructor. Philosophical examination of psychotherapy, including classic and more recent models. Examination of theories and models of psychotherapy including the relationship among ontology, theories, models, and concepts.

EDGU 70103 - Practicum I (3)

Prerequisites: EDGU 50223, 60143, 60613 or 60423, and 50323. This course involves the supervised application of counseling and guidance approaches and techniques focusing on: students' videotape transcriptions and case studies, legal and ethical issues, and certification and licensure. A minimum of 160 hours is required of onsite experience, with a minimum of 80 hours in direct client contact.

EDGU 70143 - Teaching Counseling (3)

Prerequisite: Admission to the Counseling and Counselor Education program and permission of instructor. Development of theory and practice regarding training beginning counselors in the techniques, strategies, and methods of counseling.

EDGU 70223 - Supervision in Counseling (3)

Prerequisite: Permission from instructor. Provide supervision of counselors-in-training under the supervision of supervising professor in class, schools, or agencies; examination of helper-helpee relationships through audiotape, videotape, observation, and in-class performance; the development of personal theory and strategies based on established theories and best practices of supervision in counseling.

EDGU 70233 - International Practices of Counseling (3)

Prerequisites: Graduate status and permission from instructor. This course involves a cultural immersion experience designed to provide students with an understanding of the role culture plays in the practice of counseling, with a focus on counseling in another country. Students will participate in a faculty-led trip abroad, short term (not semester). Emphasis will be placed on personal reflection regarding multiculturalism in counseling and examination of how mental health service delivery in that country relates to clinical practices in the United States, as well as in relation to the larger global community.

EDGU 70303 - Internship (3)

Prerequisites: EDGU 70103. Internship is designed to meet the CACREP accreditation standards and is based on seminar-style class discussion, the presentation and discussion of cases, clinical group supervision principles, and didactic instruction. The course requires students to complete a supervised counseling internship of 300 clock hours, with a minimum of 120 hours per semester of direct counseling service with clients, which is to be fulfilled in an academic semester. Students should consider selecting internship sites that offer opportunities to engage in both individual counseling and group work. The internship provides an opportunity for the student to perform, under clinical supervision, a variety of professional counseling activities that a regularly employed staff member in the setting would be expected to perform. (3 credit hours - may be repeated for total of 6 credit hours)

EDGU 70323 - Advanced Group Leadership (3)

Application of advanced methods in group leadership integrating current theoretical knowledge with parallel experiences in intervention and techniques. Use of creative processes to facilitate group exploration in small group dynamics class for counselor trainees.

EDGU 70383 - Advanced Study in Counseling Theories and Techniques (3)

Prerequisites: Prior course in counseling theories and techniques and permission of the instructor. This class explores the original and current writings and applications of major theorists and theories in individual counseling.

EDGU 70793 - Strength-Based Theories: Assessment, Research, and Practice (3)

Prerequisites: Acceptance into doctoral program and/or permission from the instructor. This class focuses the learner on the historical and current knowledge regarding strengths-based assessment, research, and practice from different disciplines and how these are and can be applied to current practice and program developments.

EDGU 70970 - Special Topics in Guidance and Counseling (1.00-20.00)

Focus on topics of interest to guidance counselors in schools and/or colleges and universities. Such topics might include sexual abuse, violence in dating and marriage, building resiliency in youth, family therapy, or other issues being raised by students, researchers, and/or society

EDGU 71103 - Field Experience in Student Affairs (3)

The field experience takes place in an approved student affairs setting under the supervision of the field experience coordinator (counseling faculty) and a qualified site supervisor. A minimum of 150 hours of work in the field and participation in a field experience seminar are required. This onsite training provides students with the opportunity to apply their counseling knowledge and develop an understanding of the relationship between theory and practice in the context of student affairs.

EDHE - Higher Education Leadership**EDHE 60013 - Leadership: Theory and Practice (3)**

Prerequisites: Admission to a TCU College of Education Graduate Program. If not admitted to a graduate program in the College of Education, students must obtain permission of the Associate Dean for Graduate Studies in the College of Education and of the instructor prior

to enrolling. Note: This course is designed to develop educational leaders. It is strongly advisable that students have a keen interest in leadership and in particular, an interest in pursuing the principalship or other significant role as an educational leader. This course will serve to develop insight into what constitutes an effective leader and the distinctions between management and leadership. Participants will explore the major aspects of leadership and school organizations. Opportunities to read about and interact with exceptional leaders will increase understanding of those personal qualities and the professional skill set required to mobilize people and move organizations through times of stability and change.

EDHE 60023 - Seminar: Trends in Teaching, Learning, and Leadership (3)

Prerequisites: Admission to a TCU College of Education Graduate Program. If not admitted to a graduate program in the College of Education, students must obtain permission of the Associate Dean for Graduate Studies in the College of Education and of the instructor prior to enrolling. A series of classes that explore a contemporary issue and/or trend in teaching, learning, and educational leadership and the scholars who have contributed to our current understanding of the selected topic. Each class in the seminar series will explore particular issues related to the topic, (e.g. historical underpinnings, researchers and writers, and contemporary expressions and issues.) Specific offerings will target critical current themes such as: information literacy in the role of contemporary education, the cognitive neuroscience of learning, and the like and will be listed as, for example, EDLE 70023: The evolving role of technologies in the PK12 classroom-- what it means for students, teachers, and leaders. Course may be repeated for credit once with a different topic/emphasis.

EDHE 60133 - Legal Issues in Higher Education (3)

Prerequisites: Graduate status. This course will introduce some of the most pressing legal issues that confront colleges and universities and will acquaint students with how institutions handle them. The course will address a variety of topics but will focus on issues such as academic freedom and tenure; the authority of schools to discipline students for academic and behavioral misconduct; student privacy and well-being; affirmative action and other attempts to create a diverse student body; sexual harassment; sponsored research; and intellectual property issues in higher education.

EDHE 60403 - Theories of Student Development (3)

Prerequisites: Admission into counseling program. This course explores the cognitive, affective, social, and moral development of young adulthood with a special emphasis on developmental and contextual risks and resiliencies that affect best practices in higher education.

EDHE 60423 - Introduction to Student Affairs (3)

Prerequisite: Admission into higher education program. This course involves the study of the history and philosophy of student development programs; standards of practice; organization, management, and leadership theories; ethical standards and principles; and management of programs and services.

EDHE 61093 - Diversity in American Higher Education (3)

Prerequisites: Admission into the TCU College of Education higher education graduate program. Emphasis is on the interaction between social identities and institutional, societal, governmental, and personal influences and how these impact participation and retention of students, faculty, and staff. This course invites students to examine how social identities are created and the existence of these in relation to societal power structures. By examining power structures, students will gain a better understanding of how these are replicated within the higher education systems and the effect these have had on minoritized/marginalized populations. Students will deepen their understanding of and develop their leadership on historical and contemporary topics related to inclusion, justice, power, and privilege in higher education settings. Students will assess frameworks and theories that seek to promote equity and justice in education.

EDHE 61183 - Special Topics in Higher Education (3)

Prerequisites: Admission to the graduate school. Admission to the graduate school. A series of seminar classes that explore topics of interest in higher education. Through these topics, students will be introduced to key issues affecting higher education and its various constituents and stakeholders. Topics will vary. May be repeated for credit.

EDHE 62053 - Small Group Dynamics for Higher Education Administrators (3)

Prerequisites: Admission to the M.Ed. in Higher Education Leadership Program. This course focuses on the communication behavior of individuals within group structures. Didactic and experiential techniques are used to explore the stages of group development, decision-making techniques, group problems and problem solving, resolution skills, norms, structures, leadership, authority, membership, ethics, cultural sensitivity, and the intra- and inter-personal dynamics within small groups. Special attention is given to the scientific discipline dedicated to the study of groups, including relevant social theories and empirical data resulting from scientific research.

EDHE 62373 - Helping Relationships for Higher Education Administrators (3)

Prerequisites: Admission to the M.Ed. in Higher Education Leadership Program. This course is committed to the examination and practice of the counseling skills needed by higher education administrators for their work with students in mentoring, advising, and supervising capacities. Students will receive a general orientation to the major counseling theories. Students will learn more about themselves in relation to others while also learning beginning counseling techniques. There is a strong emphasis on skills development including: listening, interviewing, non-verbal rapport building, and relationship management. This course will equip students with basic skills to develop and maintain helping relationships.

EDHE 70113 - Academic Leadership and Governance in Higher Education (3)

This is a doctoral level course focusing on reading, classroom discussion, individual analysis, and writing to gather a full understanding of the academic enterprise in higher education. The centrality of the academic enterprise demands effective administration of academic programs to assure quality and effectiveness. The academic functions are wide ranging dealing with student issues, faculty concerns, admissions, diversity, curriculum, and resource development. This course will offer an in-depth analysis of these and other core academic function in higher education. Emphasis will be placed on the evolution and contemporary understanding of educational practice in the academy and likely future challenges.

EDHE 70123 - College President (3)

This course is designed to provide greater understanding of the leadership role of college and university presidents and the issues associated with the office of the presidency at the various types of American Institutions. The purpose/objective of this course is to help students become familiar with all aspects of the college and university presidency and how the leadership role has changed throughout history and the reasons for the change. In addition, the course will cover a broad range of the current issues facing higher education and the intricacies of leadership in higher education.

EDHE 70133 - History and Philosophy of Higher Education (3)

Higher education in the United States has been shaped and influenced by a variety of historical forces. American higher education needs to be examined through the lenses of varied historical and philosophical perspectives that provide a better understanding of the contemporary context and the nature of its future development. In addition, this course analyzes the role higher education has played in the development of American society, and might offer insights to administrators, instructional staff, or others responsible for higher education.

EDHE 70143 - Advanced Student Development Theory: Impact of College on Students (3)

Prerequisite: Admitted to Graduate Education. This is a graduate level course designed to show the effect of college on student intellectual, moral, and academic growth. It will also study impacts on career and other quality of life issues. Various subsets of the student population as well as the impact of institutional type will be examined. In examining college impact, this course will present classic theories and perspectives as well as current and emerging research. The course content is broad and touches on several topics related to college students.

EDHE 70153 - Organizational Behavior in Education Contexts (3)

Prerequisite: Admitted to Graduate Education. This is a doctoral level lecture, discussion and interactivity course. Through lectures, visiting presenters, student presentations, projects and readings, students will

understand organizations in educational contexts and how culture affects the leadership, management and student experience.

EDHE 70163 - The Small College (3)

This is doctoral level program that focuses on the small college in its many forms. The small private college will be stressed. Emphasis will be on understanding the role of the small college plays in the diverse landscape of higher education

EDHE 70203 - Internship in Educational Administration (1.00-6.00)

Prerequisite: Must be admitted to Graduate Education. Planned program of leadership responsibilities in an educational institution or agency, commensurate with the student's graduate program, certification objectives, and employment goals. Emphasis on research application in a field-based setting. Responsibilities and projects are under the direction of the academic advisor and on-site supervisor.

EDHE 70223 - Intercollegiate Athletics in Higher Education (3)

Intercollegiate athletics plays a significant role on American college campuses. The course will focus on the history of college athletics, governance, NCAA compliance rules and regulations, operations, finances, strategic planning, and critical issues and future trends that impact college sport. The course will also examine issues related to student athlete welfare with a focus on Women student athletes and student athletes of color. Finally legal issues affecting higher education will be studied and the effect on intercollegiate athletics management.

EDHE 70233 - Comparative Higher Education (3)

Prerequisites: Admission to Graduate School; Higher education has become a global industry. Effective leadership will require an understanding of the impact of educational policies and practices worldwide. This course will have a study abroad option as part of the course of study. While the course will focus on higher education worldwide, it will focus on the country or region that will be visited. This course has a required study abroad component.

EDHE 70253 - Assessment and Accreditation in Post-Secondary Education (3)

This course focuses on issues related to assessment of learning and program evaluation in colleges and universities. With increasingly difficult, diverse, and complex decision-making circumstances, it is essential that those in higher education examine assessment methodologies and how these approaches may be best used to improve and enhance learning for students in post-secondary education. Colleges and universities must use solid and meaningful evidence for planning curriculum, evaluating and assessing program results, and improving practices based on evaluation data.

EDHE 70263 - Finance in Higher Education (3)

Prerequisites: Admission to the Higher Ed doctoral program or permission of the instructor. This is a graduate level course designed to show the complexity of finance in higher education. The course will focus on the economics and finance of higher education. The perspective of the course will be from the point of view of senior administrators who would typically have responsibility for finance or some financial functions in an institution but would not be a senior financial officer, i.e. dean, provost, etc. The plan of this course is to develop new understandings of the nature of higher education finance by exploring financial challenges, what can be done to negotiate them, and how financial decisions impact educational quality, equity, accountability, and sustainability. The course will explore topics of financial policy, government support of higher education, financial aid, and economics of higher education, human capital theory, and privatization in higher education.

EDHE 70543 - Campuses and Capitols (3)

Prerequisites: Graduate standing and permission of instructor. This three-hour course explores the complicated connections between legislative bodies and the college or university campus. Keeping up with the issues, advocating for students and knowing the policies can be a full time job. This course is designed to introduce students to the process of legislating, advocating and responding to new educational policy. Also, the course will introduce students to fundamental questions regarding higher education public policy-the nature and purpose(s) of higher education, the capacity to communicate that purpose(s) to legislators to impact legislation and the leadership skills to establish campus policies that relate to public policy.

EDHE 70633 - Challenges in Higher Education: Student Affairs (3)

Prerequisites: Graduate standing. This course is designed to determine, investigate and suggest solutions to serious challenges in higher

education. The course will focus on disputed issues such as diversity, ethics, finances, student learning, accountability, and student achievement. Effective handling of disputed issues will create an environment more likely to be a favorable to student growth, both intellectual and personal, and degree completion as well as meet the imperatives of institutional mission.

EDHE 78213 - Human Resource Management in Higher Education (3)

Prerequisites: Students must first be admitted to a doctoral program in educational leadership before enrolling in the course. Students will understand the role of human resource management in postsecondary education. The functions of recruitment; selection; compensation; retention and motivation; professional development; employee performance; and appraisal will be covered.

EDLE - Educational Leadership

EDLE 60013 - Leadership: Theory and Practice (3)

Prerequisites: Admission to a TCU College of Education Graduate Program. If not admitted to a graduate program in the College of Education, students must obtain permission of the Associate Dean for Graduate Studies in the College of Education and of the instructor prior to enrolling. Note: This course is designed to develop educational leaders. It is strongly advisable that students have a keen interest in leadership and in particular, an interest in pursuing the principal ship or other significant role as an educational leader. This course will serve to develop insight into what constitutes an effective leader and the distinctions between management and leadership. Participants will explore the major aspects of leadership and school organizations. Opportunities to read about and interact with exceptional leaders will increase understanding of those personal qualities and the professional skill set required to mobilize people and move organizations through times of stability and change.

EDLE 60023 - Seminar: Trends in Teaching, Learning, and Leadership (3)

Prerequisites: Admission to a TCU College of Education Graduate Program. If not admitted to a graduate program in the College of Education, students must obtain permission of the Associate Dean for Graduate Studies in the College of Education and of the instructor prior to enrolling. A series of classes that explore a contemporary issue and/or trend in teaching, learning, and educational leadership and the scholars who have contributed to our current understanding of the selected topic. Each class in the seminar series will explore particular issues related to the topic, (e.g. historical underpinnings, researchers and writers, and contemporary expressions and issues.) Specific offerings will target critical current themes such as: information literacy in the role of contemporary education, the cognitive neuroscience of learning, and the like and will be listed as, for example, EDLE 70023: The evolving role of technologies in the PK12 classroom-- what it means for students, teachers, and leaders. Course may be repeated for credit once with a different topic/emphasis.

EDLE 60033 - Community Engagement and Culturally Responsive Practice (3)

Prerequisites: Admission to a TCU College of Education Graduate Program. If not admitted to a graduate program in the College of Education, student must obtain permission of the Associate Dean for Graduate Studies in the College of Education and of the instructor prior to enrolling. This course is recommended for all students who desire to be an education or community leader. It will enable leaders to interface with a variety of community members and organizations. Moreover, this course will address working with classrooms, schools, and the broader community in ways that align with culturally responsive practice. Schools exist as part of the very heartbeat of a community, interfacing with not only the students and families whom they serve, but virtually all other critical agencies and entities on a daily basis: businesses business organizations, neighborhood associations, community organizations, charitable foundations, child service providers, city/governmental and public service/safety organization, and faith-based organizations. The increasing and evolving complexities imposed by economic need and social challenges/demands make the cohesive planning and collaboration of school and community leaders one of the 21st Century imperatives.

EDLE 60043 - Instructional Leadership: Curriculum, Instruction, & Assessment (3)

Prerequisite: Admission to a graduate program within the College of Education or admission to a graduate program outside of the College of

Education and permission of the instructor. This course focuses on theories of learning derived from philosophy, psychology, cognitive neuroscience, and educational research to inform the relationship of school curricula, pedagogy/instruction, and assessment practices. Students explore facets of instructional leadership as they intersect with curriculum, instruction, and assessment, and how students will be expected to enact instructional leadership in concert with models for teacher and principal assessment and evaluation.

EDLE 60053 - Instructional Leadership: Supervision, Coaching, & Evaluation (3)

Prerequisite: Admission to a graduate program within the College of Education or admission to a graduate program outside of the College of Education and permission of the instructor. This course engages students in the study and practice of instructional leadership as embodied in approaches to supervision, coaching, and evaluation (both formal and informal), and how these concepts connect to the complex relationships among teacher growth and development, professional development, and school and instructional improvement.

EDLE 60063 - Law and Ethics in Educational Leadership (3)

Prerequisites: Admission to a TCU College of Education Graduate Program. If not admitted to a grade program in the College of Education, students must obtain permission of the Associate Dean for Graduate Studies in the College of Education and of the instructor prior to enrolling. Prior to enrolling in this or Tier II courses, students must have completed 15 hours of Tier I courses. This course will explore various aspects of legal and ethical demands and impacts on educational systems, primarily from a school-level leadership perspective. We will focus on establishing a foundational understanding of legal and ethical standards and decision-making processes in the context of issues involving the application of these understandings, primarily in school-level leadership actions.

EDLE 60073 - Education Policy Studies (3)

Prerequisites: Admission to a TCU College of Education Graduate Program. If not admitted to a grade program in the College of Education, students must obtain permission of the Associate Dean for Graduate Studies in the College of Education and of the instructor prior to enrolling. Prior to enrolling in this or Tier II courses, students must have completed 15 hours of Tier I courses. This course is designed to enable graduate professional students contemplating or engaged in careers in the education sector to explore concepts, theories, and perspectives in educational policy for use in educational practice. This course will explore various aspects of local, state, and federal policymaking as it pertains to K-16 education. Students will gain practical and theoretical understanding of the policy process from identifying political actors and stakeholders through agenda setting, policy implementation, and analysis.

EDLE 60083 - Data Use for Educational Leaders (3)

Prerequisites: Admission to a TCU College of Education Graduate Program. If not admitted to a grade program in the College of Education, students must obtain permission of the Associate Dean for Graduate Studies in the College of Education and of the instructor prior to enrolling. Prior to enrolling in this or Tier II courses, students must have completed 15 hours of Tier I courses.

EDLE 60093 - Principal Practicum in Educational Leadership (3)

Prerequisites: Must be admitted to the College of Education Graduate Program in Educational Administration; have completed/credit for at least 24 hours of educational leadership coursework; and have arranged for a local certified administrator to serve as their site mentor. The administrative practicum is a two-semester (fall-spring) opportunity for the graduate student to apply skills and knowledge learned in the classroom and in other professional experiences to real world, field-based tasks under the guidance of a practicing onsite administrator and a TCU supervisor. The student will spend at least 160 clock hours engaged in the sheltered practice of administration under the guidance of certified onsite administrator performing collaboratively agreed upon tasks outlined in the practicum proposal and tied to the nine principal competencies of the state of Texas. (This course is only offered as P/NC.)

EDLE 70043 - School and Community Contexts (3)

Prerequisites: Admission to a graduate program within the College of Education or admission to a graduate program outside of the College of Education and permission of the instructor. In this course, students will identify sociopolitical structures that influence public education specifically as those structures relate to race, gender, class, and other

aspects of diversity and understand the interconnectedness of how public policies (including housing, social welfare, and education policy) shape cities and communities, education institutions, and the lives and opportunities of students and families.

EDLE 70053 - Cultural Foundations in Educational Leadership (3)

Prerequisites: Admission to a graduate program within the College of Education or admission to a graduate program outside of the College of Education and permission of the instructor. This course provides students with the theoretical foundation through which a critical analysis of the relationship between culture and educational leadership can occur. Through this examination, students will study policy, governance, and instructional issues relating to the education of a diverse student population. An equity focused change process using data as a basis for education reform is another key element of this course.

EDLE 70083 - Issues and Trends in :Superintendency (3)

Prerequisites: Admission to the doctoral program in Educational Leadership or written permission of the instructor and of the Associate Dean of Graduate Studies, College of Education. Due to the nature and focus of the course, it is strongly recommended students be currently serving in a responsible leadership role and/or have significant leadership experience. Permission of the instructor is required if status is otherwise, even for graduate students who have been admitted to the doctoral program in Educational Leadership. School systems are among the most complex of all organizations demanding highly skilled and exceptionally well-prepared dynamic leadership in a rapidly changing world. This course is required for all students who desire to pursue Texas Superintendent Certification and is recommended for all students who plan to work in key leadership roles in PK-12 central administration. The course will examine the role of the superintendent and senior level leadership in light of all aspects of schools and school systems including: organizational theory, climate and culture, change management, board governance, leadership ethical considerations, instructional programs practices, law and policy, finance and facilities, human capital development, communication media relations and community involvement.

EDLE 70090 - Superintendent Practice in Educational Leadership (3.00-6.00)

Prerequisites: Be admitted to the College of Education Graduate Program in Educational Leadership; hold a valid Principal certificate (or the equivalent issued by another state), and have permission of instructor; have successfully completed EDLE 70083 or be concurrently enrolled in EDLE 70083 at the time of initial enrollment in EDLE 70093. The superintendent practicum is an intensive opportunity for the graduate student seeking certification as a superintendent to apply skills and knowledge learned in the classroom and in other professional experiences to real world, field-based tasks under the guidance of a practicing on-site administrator and a TCU supervisor. Students electing 3 credit hours must complete 80 clock hours of sheltered practice in the sheltered practice of district-level school leadership under the guidance of a certified on-site administrator performing collaboratively agreed upon tasks outlined in the practicum proposal and tied to the ten competencies outlined for superintendents by the state of Texas. Students electing 6 credit hours must complete 160 clock hours. Students may enroll in two concurrent semesters (3 credit hours per semester) or may opt for a summer-long intensive program (6 credit hours for the summer session). Any student seeking superintendent certification must complete the full practicum (160 clock hours), whether the student elects to do so in two consecutive semesters (3 credit hours per semester) or one summer-long, 6-credit hour experience.

EDMS - Education - Middle School

EDMS 50023 - Effective Teaching and Classroom Implementation (3)

Prerequisite: Admission to the Teacher Education Program; co-requisite: EDMS 41151, EDSE 41151, or EDUC 60980. 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. (Offered as EDMS, EDSE or EDUC credit.)

EDMS 50173 - Development of Written Communication (3)

Prerequisites: Admission to the Teacher Education Program. This course is a study of the developmental process of written communication as it relates to literacy development in upper elementary, middle school and

high school students. This course will present methods of increasing students' written communication skills.

EDMS 50223 - Practicum in Reading and ESL (3)

Prerequisite: Admission to the Teacher Education Program. This class provides opportunities to prepare lessons and teach in various TESOL and bilingual classroom contexts with cooperating teachers. Students will read about best practices for biliteracy development and have a chance to put this learning to practice, all with the goal of taking the on-going feedback and self reflection/assessment to grow as a teacher. The practicum requires candidates to work with emergent bilinguals over the span of the university semester.

EDMS 50553 - Methods for Teaching Middle School Science (3)

Prerequisites: Admission to the Teacher Education Program, corequisite: EDMS 41151 or EDUC 60980. Using guidelines set forth by the National Research Council, the American Association for the Advancement of Science and the State of Texas, the students will develop pedagogical content knowledge for teaching middle science. Students will explore various aspects of the science teacher profession such as designing lessons/labs, aligning lessons to TEKS and frameworks, assessing student work, constructing assessment tools, classroom management techniques and best practices in teaching science. Peer-teaching and peer-evaluation will be used to help students identify their strengths and weaknesses to help them prepare for the teaching profession.

EDMS 50663 - Motivating and Managing Students in the Classroom

Prerequisite: Admission to the Teacher Education Program and co-requisite: EDMS 41151, EDSE 41151, or EDUC 60980. 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.

EDMS 51103 - Assessment (3)

Prerequisites: Admission to the Teacher Education Program, EDMS 30123, EDMS 30113, EDMS 30603, EDMS 40213, and Content Area Methods course(s), and co-requisite EDMS 41151. This course provides students with a foundation for understanding the basic concepts and procedures of educational assessment and evaluation as they pertain to teaching in the middle/secondary classroom and informing instruction. Both formal and informal methods of gathering educational information and monitoring learners' progress will be integral parts of this course. Students will learn how to develop appropriate assessments; interpret assessment information for educational program planning; provide timely, high-quality feedback; respond flexibly to promote learning for all learners, including second language learners and students with disabilities; and communicate assessment information to parents and other professionals. (Offered as EDMS or EDUC credit.)

EDMT - Education - Mathematics

EDMT 50123 - Teaching Geometry and Measurement (3)

Prerequisites: Admission to the MEd in Mathematics Education Program. Using the guidelines set forth by the National Council of Teachers of Mathematics and the State of Texas for mathematics instruction, students will develop pedagogical content knowledge for teaching geometry and measurement. The content will be explored from an inquiry perspective to expand upon students' conceptual understanding of the mathematics. Through class investigations and discussions, readings, and assignments, students will be exposed to best practices which promote the process standards (problem solving, reasoning and proof, communication, connections, and representations.) By gaining expertise with respect to the development of children's thinking in geometry and measurement and instructional and assessment practices that contribute to this development, students will be prepared to serve as teacher-leaders.

EDMT 50133 - Teaching Data Analysis and Probability (3)

Prerequisite: Admission to the MEd in Mathematics Education Program. Using the guidelines set forth by the National Council of Teachers of Mathematics and the State of Texas for mathematics instruction, students will develop pedagogical content knowledge for teaching data analysis and probability. The content will be explored from an inquiry perspective to expand upon students' conceptual understanding of the mathematics. Through class investigations and discussions, readings, and assignments, students will be exposed to best practices which promote the process standards (problem solving, reasoning and proof, communication, connections, and representations.) By gaining expertise

with respect to the development of children's thinking in data analysis and probability and instructional and assessment practices that contribute to this development, students will be prepared to serve as teacher-leaders.

EDMT 60103 - Teaching Number and Operations (3)

Prerequisites: Admission to the MEd in Mathematics Education Program or written permission of the Dean. Using the guidelines set forth by the National Council of Teachers of Mathematics and the State of Texas for mathematics instruction, students will develop pedagogical content knowledge for teaching number and operations. The content will be explored from an inquiry perspective to expand upon students' conceptual understanding of the mathematics. Through class investigations and discussions, readings, and assignments, students will be exposed to best practices which promote the process standards (problem solving, reasoning and proof, communication, connections, and representations.) By gaining expertise with respect to the development of children's thinking about number and operations and instructional and assessment practices that contribute to this development, students will be prepared to serve as teacher-leaders.

EDMT 60113 - Teaching Algebraic Thinking (3)

Prerequisites: Admission to the MEd in Mathematics Education Program or written permission of the Dean. Using the guidelines set forth by the National Council of Teachers of Mathematics and the State of Texas for mathematics instruction, students will develop pedagogical content knowledge for teaching algebraic thinking. The content will be explored from an inquiry perspective to expand upon students' conceptual understanding of the mathematics. Through class investigations and discussions, readings, and assignments, students will be exposed to best practices which promote the process standards (problem solving, reasoning and proof, communication, connections, and representations.) By gaining expertise with respect to the development of children's algebraic thinking and instructional and assessment practices that contribute to this development, students will be prepared to serve as teacher-leaders.

EDMT 60143 - Teaching and Learning Mathematics with Technology (3)

Prerequisite: Admission to the M.Ed. in Mathematics Education Program or written permission of the Dean. Using the guidelines set forth by the National Council of Teachers of Mathematics and the State of Texas for mathematics instruction, students will develop technological pedagogical content knowledge for teaching and learning mathematics. The content will be explored from an inquiry perspective through the use of technologies commonly found in K-12 mathematics classrooms (e.g., calculators, graphing calculators, dynamic geometric software, and statistical software) to expand upon students' conceptual understanding of mathematics. Through class investigations and discussions, readings, and assignments, students will be exposed to best practices which promote the process standards (problem solving, reasoning and proof, communication, connections, and representations). By gaining expertise with respect to the development of children's mathematical thinking and instructional and assessment practices using technologies that contribute to this development, students will be prepared to serve as teacher-leaders.

EDMT 60153 - Fostering Discourse in the Mathematics Classroom (3)

Prerequisite: Admission to the M.Ed. in Mathematics Education Program or written permission of the Dean. Using the guidelines set forth by the National Council of Teachers of Mathematics and the State of Texas for mathematics instruction, students will develop strategies for fostering discourse in the mathematics classroom. The content will be explored from an inquiry perspective through the use and analysis of strategies that foster discourse to expand upon students' conceptual understanding of mathematics. Through class investigations and discussions, readings, and assignments, students will be exposed to best practices which promote the process standards (problem solving, reasoning and proof, communication, connections, and representations). By gaining expertise with respect to the development of children's mathematical thinking and instructional and assessment practices using discourse that contribute to this development, students will be prepared to serve as teacher-leaders.

EDMT 60513 - Practicum in Mathematics Education (3)

Prerequisite: Admission to the M.Ed. in Mathematics Education Program or written permission of the Dean. Practical experience in a mathematics educational setting designed to sensitize the student to the challenges of transforming theory into practice.

EDMT 70980 - Thesis in Mathematics Education (1.00-3.00)

Prerequisites: Advancement to candidacy. Three hours of EDMT 70980 is required.

EDMT 70990 - Thesis in Mathematics Education (1.00-3.00)

Prerequisites: Advancement to candidacy and EDMT 70980. Three hours of EDMT 70990 is required.

EDSC - Education - Science

EDSC 60033 - Academic Language Development in Science (3)

Prerequisite: Admitted to Graduate Education. Drawing from current research on inquiry-based science instruction and academic language development for English language learners, the focus of this course is on linking conceptual growth in science with language and literacy. It is designed for students who want to increase their understanding of the role of academic language in developing conceptual knowledge in science and to have firsthand experiences in developing language.

EDSC 60053 - Internship in Informal Settings (3)

Prerequisite: Admitted to Graduate Education. Supervised educational endeavor in partnership with an informal science education site which emphasizes the unique science experiences found in informal science education sites such as zoos, museums, nature centers, and rescue centers.

EDSC 60333 - Theory and Pedagogy of Science Instruction (3)

This course considers the application of theories of teaching to the learning of science in school classrooms. As such, it utilizes a confluence of theory and evidence about how people learn science and how environments are best constructed to promote learning. This course examines current theories of science teaching in light of their assumptions and related empirical evidence.

EDSC 60810 - Seminar: Special Topics in Science Education (1.00-3.00)

May be repeated for up to 13 hours

EDSC 70011 - Colloquium in the Profession of Science Education (1)

Prerequisite: Admitted to Graduate Education. The Colloquium in the Profession of Science Education is a one-hour course designed as an introduction to practical and theoretical issues of the profession as well as an induction into the practice of science education research as is designed for all graduate students. Class sessions may take the form of presentations made by faculty or students; lectures by guest speakers; roundtable on specific education issues; attendance at professional conferences; or information meetings. Students are required to take EDUC 70011 each fall during their program of study.

EDSC 70033 - Scientific Inquiry and the Nature of Science (3)

The Nature of Science is a hybrid arena consisting of aspects of the philosophy, history and sociology of science along with elements of the psychology of scientific observations all targeting the complete understanding of how science actually functions. This course is designed for individuals who are interested in learning more about the methods and goals of science, the role of scientists and the place of science in society science and how philosophical issues can and should be reflected in science teaching and learning. We will read and discuss selections from the works of major philosophers of science and commentaries on science education from a philosophical perspective. Throughout this course we will explore the content of the nature of science and use that knowledge as a guide in improving science instruction and developing philosophically appropriate science curricula.

EDSC 70043 - Science and Science Education in the Global Community (3)

Science and Science Education in a Global Community will address different cultural, geographical, philosophical, and epistemological perspectives on educational reform. The history of ideas of science education as it has evolved in different contexts will be explored, along with the theories of educational change/reform and practical implications, which accompany varying perspectives.

EDSC 70053 - History and Philosophy of Science (3)

Prerequisite: Admission into a graduate program at TCU. Those interested in the philosophy of science may consider enrolling in this class. Philosophy of science examines questions and issues arising from the methods and results of science; questions and issues that are not themselves answerable by scientific methods. This course focuses on

the nature of explanation in the sciences and the reason that scientific claims enjoy a special epistemic status. As a seminar course, the main class format will be discussion and debates over the nature of explanation, problems with accounts of explanation, competing criteria for good explanation, and difference between scientific explanation and other types of explanation.

EDSC 70073 - Learning Progression in Science Education (3)

This course introduces doctoral students to the learning progressions in science education. It constitutes of readings, reflections, assignments and activities that fosters students thinking of learning progressions and critiquing this area of expertise in science education.

EDSC 70980 - Thesis (1.00-20.00)

Prerequisite: Admission to Candidacy.

EDSC 70990 - Thesis (1.00-3.00)

Prerequisite: EDSC 70980. Thesis

EDSE - Education - Secondary

EDSE 50023 - Effective Teaching and Classroom Implementation (3)

Prerequisite: Admission to the Teacher Education Program; co-requisite: EDMS 41151, EDSE 41151, or EDUC 60980. 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. (Offered as EDMS, EDSE or EDUC credit.)

EDSE 50173 - Development of Written Communication (3)

Prerequisites: Admission to the Teacher Education Program. This course is a study of the developmental process of written communication as it relates to literacy development in upper elementary, middle school and high school students. This course will present methods of increasing students' written communication skills.

EDSE 50213 - Teaching in Bilingual Classrooms (3)

Prerequisites: Admission to the Teacher Education Program. Methods and strategies in teaching the bilingual child; including English as a second language and Spanish as a first language. Observation and participation in bilingual classes required.

EDSE 50223 - Practicum in Reading and ESL (3)

Prerequisite: Admission to the Teacher Education Program. This class provides opportunities to prepare lessons and teach in various TESOL and bilingual classroom contexts with cooperating teachers. Students will read about best practices for biliteracy development and have a chance to put this learning to practice, all with the goal of taking the on-going feedback and self-reflection/assessment to grow as a teacher. The practicum requires candidates to work with emergent bilinguals over the span of the university semester.

EDSE 50443 - Methods for Teaching Secondary School Mathematics I (3)

Prerequisites: Admission to the Teacher Education Program; Corequisite: EDSE 41151 or EDUC 60980. Using the guidelines set forth by the national Council of Teachers of mathematics and the State of Texas for mathematics instruction, the students will develop pedagogical content knowledge for teaching secondary mathematics. The content (number and operations, algebra) will be explored from an inquiry perspective to build a conceptual understanding of the mathematics. Students will also be exposed to best practices which promote the process standards (problem solving, reasoning and proof, communication, connections, and representations) through class investigations and discussions, readings, and field placements. The process of developing units and lessons as well as assessment techniques for evaluating students' progress and teacher practice will be integrated into the coursework.

EDSE 50453 - Methods for Teaching Secondary Mathematics II (3)

Prerequisites: Admission to the Teacher Education Program, and corequisite: EDSE 41151 or EDUC 60980. Using the guidelines set forth by the National Council of Teachers of Mathematics and the State of Texas for mathematics instruction, the students will develop pedagogical content knowledge for teaching secondary mathematics. The content (geometry, measurement, and data analysis and probability) will be explored from an inquiry perspective to build a conceptual understanding of the mathematics. Students will also be exposed to best practices which promote the process standards (problem solving,

reasoning, and proof, communication, connections, and representations) through class investigations and discussions, readings, and field placements. The process of developing units and lessons as well as assessment techniques for evaluating students' progress and teacher practice will be integrated into the coursework.

EDSE 50553 - Methods for Teaching Secondary Science (3)

Prerequisites: Admission to the Teacher Education Program, corequisite: EDSE 41151 or EDUC 60980. Using guidelines set forth by the National Research Council, the American Association for the Advancement of Science and the State of Texas, the students will develop pedagogical content knowledge for teaching secondary science. Students will explore various aspects of the science teacher profession such as designing lessons/labs, aligning lessons to TEKS and frameworks, assessing student work, constructing assessment tools, classroom management techniques and best practices in teaching science. Peer-teaching and peer-evaluation will be used to help students identify their strengths and weaknesses to help them prepare for the teaching professions.

EDSE 50663 - Motivating and Managing Students in the Classroom

Prerequisite: Admission to the Teacher Education Program and co-requisite: EDMS 41151, EDSE 41151, or EDUC 60980. 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. (Offered as EDMS, EDSE, or EDSP credit.)

EDSE 51103 - Assessment (3)

Prerequisites: Admission to the Teacher Education Program, EDMS 30123, EDMS 30113, EDMS 30603, EDMS 40213, and Content Area Methods course(s), and co-requisite EDMS 41151. This course provides students with a foundation for understanding the basic concepts and procedures of educational assessment and evaluation as they pertain to teaching in the middle/secondary classroom and informing instruction. Both formal and informal methods of gathering educational information and monitoring learners' progress will be integral parts of this course. Students will learn how to develop appropriate assessments; interpret assessment information for educational program planning; provide timely, high-quality feedback; respond flexibly to promote learning for all learners, including second language learners and students with disabilities; and communicate assessment information to parents and other professionals. (Offered as EDMS or EDUC credit.)

EDSE 60073 - Seminar in Mathematics Education (3)

The primary purpose of this course is to help you learn how to teach mathematics in secondary and middle school classrooms. We will learn the appropriate content and pedagogy for the 8-12 students. The course will be based on the available research in how all people learn mathematics. Heavy emphasis is placed on a variety of strategies including cooperative learning, technology, manipulatives, and cultural influences in mathematics education. Participants in the course are required to explore the research on effective practices.

EDSP - Education - Special

EDSP 50013 - Literacy Methods in Special Education (3)

Prerequisite: Admission to a graduate program in the College of Education or permission from instructor. This course addresses research-based assessment and instructional methods in the area of literacy for students at-risk for failure and students receiving special education services.

EDSP 50273 - Technology for Diverse Learners (3)

Prerequisites: Admission to an undergraduate or graduate education program or permission of the instructor. Examines uses of technology that can meet the differing educational needs of all students, including culturally and linguistically diverse learners and those who have disabilities. Addresses Universal Design for Learning, Culturally Responsive Teaching, assistive technology, and accessible educational materials.

EDSP 50663 - Motivating and Managing Students in the Classroom (3)

Prerequisite: Admission to the Teacher Education Program and co-requisite: EDMS 41151, EDSE 41151, or EDUC 60980. 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. (Offered as EDMS, EDSE, or EDSP credit.)

EDSP 55663 - Motivating and Managing Students in the Classroom (3)

Prerequisite: Admission to the Teacher Education Program and Accelerated Masters program. This course covers content related to: designing effective classroom environments to support appropriate student behavior and prevent challenging behavior and designing individualized plans for students who require more intensive behavioral support.

EDSP 58003 - Methods for Students with Mathematics Learning Differences (3)

Prerequisites: Admission into College of Education. This course is designed to provide students with research-based, effective methods and strategies for assessing, teaching, and monitoring the mathematical performance of students with high-incidence disabilities and/or learning difficulties. This course follows the principles and standards for school mathematics set forth by the national Council of Teachers of Mathematics. It introduces research-based principles of mathematics instruction including explicit and systematic instruction, student practice opportunities, visual representations of mathematical ideas, and instructional scaffolding. It aims to prepare special education teachers to adequately facilitate skill acquisition, maintenance, retention, and generalization of students with mathematics learning difficulties.

EDSP 60233 - Understanding Exceptional Children and Youth At-Risk (3)

Prerequisite: Admitted to Graduate Education. Examination of the diverse characteristics of children and youth with learning and behavior problems and the impact of these characteristics on social and academic development.

EDSP 60313 - Critical Issues in Special Education (3)

Prerequisite: Admission to a graduate program in the College of Education or permission from instructor. This course addresses critical and sometimes controversial issues in the field of special education.

EDSP 60323 - Internship in Special Education (3)

Field experience under direct supervision of a certified special education teacher in public or private school setting. Minimum of 200 clock hours required.

EDSP 60333 - Academic Achievement and Evaluation (3)

Prerequisites: Successful completion of EDSP 30603 Study of the Exceptional Student or equivalent and acceptance into the TCU graduate school of education. This course focuses on individual achievement as measured through classroom-based evaluations and individualized achievement tests. The course includes instruction and clinical experience in the administration and interpretation of individual standardized achievement tests. Students will gain knowledge in selecting, administering, and interpreting standardized tests for individuals referred for special education services. Students will make relevant connections between standardization, validity, reliability, and the individual student. Students will also learn how to locate curriculum-based measures, administer these measures, and interpret results in order to plan instructional interventions for students who are referred to special education.

EDSP 60433 - Planning and Instruction in Academically Diverse Classrooms (3)

Prerequisites: Students accepted to the Special Education MEd program or those given instructor permission may enroll. A review of current research and practices concerning shared responsibility among regular and special educators that facilitates the success for all students within the least restrictive environment.

EDSP 60453 - Practicum in Educational Testing (3)

Prerequisite: Permission of course instructor. Administration and interpretation of evaluative instruments in education and/or guidance settings.

EDSP 60513 - Practicum in Special Education (3)

Prerequisites: Students must be in the Special Education 4/1 or Special Education Traditional M.Ed. Program or obtain permission from the instructor.

EDSP 60533 - Culturally Responsive and Language Based Assessment (3)

Prerequisites: Successful completion of EDSP 30603 Study of the Exceptional Student or equivalent and acceptance into the TCU graduate school of education. This course offers students the opportunity to explore assessment, instructional, and behavioral strategies for culturally and linguistically diverse learners. Course content will center on the importance of culture in student performance and student assessment and will cover topics related to the reduction of test bias and the use of culturally responsive instructional strategies. Graduate students will assess K-12 students, determine English language proficiency, and use these data along with other classroom-based information and products to make decisions about special education placement. Graduate students also will develop appropriate modifications and accommodations based on individual student's English language proficiency.

EDSP 60723 - Cognitive Assessment and Adaptive Behavior (3)

Prerequisites: Successful completion of EDSP 30603 Study of the Exceptional Student or equivalent and acceptance into the TCU graduate school of education. This course is a detailed exercise in individual intellectual and socio-emotional assessment, and includes instruction and clinical experience in the administration and interpretation of individual standardized intelligence test and behavior rating scales. Students will gain knowledge in selecting and administering standardized test, and interpreting standardized test results for individuals referred for special education services. Graduate students will make relevant connections between standardization, validity, reliability, and the K-12 student.

EDSP 70003 - Single Subject Research Design (3)

Prerequisite: Admission to a graduate program in the College of Education or permission from instructor and EDUC 70953 or similar foundational research course. This course addresses how to critically read and thoughtfully conduct single subject research designs in applied settings.

EDUC - Education - General

EDUC 55133 - Reading Instruction Grades 3-6 (3)

Prerequisites: Admission to the Teacher Education Program, an Accelerated Masters program, and concurrent enrollment in Senior I courses. In this 3-credit hour course, emphasis is given to the guidance of students as they progress through the continuum of literacy abilities in phonics, decoding, vocabulary and comprehension in grades 3-6. Introduces recent research, philosophies of instruction, curriculum development, literature, and assessments that can be used to improve students' reading and abilities.

EDUC 50003 - Diversity in American Education (3)

Prerequisite: Admission to College of Education. This course will equip educators with the necessary skills for multiethnic school environments. It focuses on developing an awareness of how education is connected to wider structures of social, cultural, economic life and encourages not only critical examination, but also discussion of alternatives to the present reality.

EDUC 50023 - Effective Teaching and Classroom Implementation (3)

Prerequisite: Admission to the Teacher Education Program; co-requisite: EDMS 41151, EDSE 41151, or EDUC 60980. 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. (Offered as EDMS, EDSE or EDUC credit.)

EDUC 50043 - Seminar in Children's Literature (3)

Prerequisite: Admission to Teacher Education Program. Advanced study of literature for children with special attention to principles of selection and use in the elementary school curriculum.

EDUC 50053 - Experiential Learning Across the Content Areas (3)

Experiential Learning Across the Content Areas is a comprehensive overview and introduction to the various approaches educators, parents, and other stakeholders who work with youth can use to create connections between their learning environments, the content areas, and the broader places in which they reside. This course will address the benefits of experiential place-based education to the individual, the

community, and society, including intellectual development, social and emotional learning, student engagement, and critical thinking.

EDUC 50063 - Seminar in Teaching Gifted and Talented Children (3)

Prerequisites: Admission to the Teacher Education Program. Advanced study of methods to identify, assess and teach exceptionally capable students. Major emphasis is on developing skills and teaching methods. Other aspects cover guidance counseling process, social/emotional needs, working with parents, and model school-district programs.

EDUC 50153 - Literature for Adolescents (3)

This course provides an overview of young adult literature (YAL), while also exploring issues related to the use of YAL in the middle/secondary English classroom. The course provides students with opportunities to study the critical and pedagogical theories that inform the study of adolescent literature.

EDUC 50203 - Programs in Bilingual Education (3)

Prerequisites: Admission to the Teacher Education. The rationale for bilingual-bicultural education including a survey of current programs. Includes lab experiences in public school classes.

EDUC 50213 - Seminar in Bilingual Education (3)

Prerequisites: Admission to the Teacher Education Program. Methods and strategies in teaching the bilingual child; including English as a second language and Spanish as a first language. Observation and participation in bilingual classes required.

EDUC 50223 - Practicum in Reading and TESOL (3)

Prerequisite: Admission to the Teacher Education Program. This class provides opportunities to prepare lessons and teach in various TESOL and bilingual classroom contexts with cooperating teachers. Students will read about best practices for biliteracy development and have a chance to put this learning to practice, all with the goal of taking the on-going feedback and self reflection/assessment to grow as a teacher. The practicum requires candidates to work with emergent bilinguals over the span of the university semester.

EDUC 50263 - Digital Communication and Collaboration in Education (3)

Prerequisites: EDMS/SE/UC 30113, Digital Literacy, Learning, and Citizenship in Education and admission to the Graduate Education Program or instructor permission. Educational applications of digital tools to support 21st century skills such as communication, collaboration, critical thinking, and creativity. Students will develop skills in locating organizing, analyzing, evaluating, designing and communicating digital information. Students will also learn fundamentals of data management and web development. In addition, they will consider ethical and societal issues related to digital communication and collaboration in education.

EDUC 50273 - Technology for Diverse Learners (3)

Prerequisites: Admission to an undergraduate or graduate education program or permission of the instructor. Examines uses of technology that can meet the differing educational needs of all students, including culturally and linguistically diverse learners and those who have disabilities. Addresses Universal Design for Learning, Culturally Responsive Teaching, assistive technology, and accessible educational materials.

EDUC 50503 - Foundations of Language Acquisition (3)

Prerequisites: Concurrent enrollment in EDUC 50223 and TESOL, or permission of the instructor. Course includes overview of language concepts, language learning research and theories, socio-cultural context for language development and program types. An overview of historic and current trends, policies and social issues affecting the education of linguistic minorities and assessment procedures appropriate to second-language learners are introduced.

EDUC 50513 - TESOL Methods and Assessment (3)

Prerequisites: Admission to the Teacher Education Program. Curricular and instructional principles and practices to meet the academic development needs of first and second language learners in the classroom. Emphasis on strategies for providing content-area instruction and establishing learner-centered environments within various ESL settings. Texas requirements for second language learners are addressed. (Offered as EDEL or EDSE credit.)

EDUC 50643 - Reading in the Secondary School (3)

Prerequisites: Admission to the Teacher Education Program. Materials and methods for developing reading skills of the secondary school student in the various curriculum areas.

EDUC 50663 - Motivating and Managing Students in the Classroom (3)

Prerequisite: Admission to the Teacher Education Program, EDUC 30123, EDUC 30113, EDUC 30603, EDUC 40213, and Content Area Methods course(s), and co-requisite: EDMS 41151 or EDSE 41151. 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.

EDUC 50870 - Directed Study in Education (1.00-6.00)

Prerequisites: Admission to the Teacher Education Program. Study of specialized topics in Education.

EDUC 50990 - International Experiences in Education (1.00-6.00)

Prerequisites: Meet admission requirements set forth by TCU Study Abroad. Permission of adviser and professor of record. The objective of the course is to gain first-hand knowledge of varying approaches to education. This course provides the opportunity to learn about unique educational practices in an international setting. Students will have opportunities to learn about, observe, and/or participate in educational facilities which focus on early childhood, middle childhood, and/or adolescence. This course may be taken for up to six hours credit.

EDUC 55003 - Diversity in American Education (3)

Prerequisites: Admission to the College of Education as an Accelerated Masters student. This course will equip educators with the necessary skills for multiethnic school environments. It focuses on developing an awareness of how education is connected to wider structures of social, cultural, economic life and encourages not only critical examination, but also discussion of alternatives to the present reality.

EDUC 55113 - Schools, Curriculum, and Society (3)

Prerequisites: Admission to the College of Education as an Accelerated Masters student. This course explores the foundations of educational thought and practice through the works of influential thinkers from diverse philosophical, historical, geographical, intersectional, language, and cultural contexts. Students learn through lectures, readings, discussion and collaborative assignments. This course meets requirement for the Citizenship and Social Values and Writing Emphasis, and Women and Gender Studies designations.

EDUC 55293 - Curriculum Workshop (3)

Prerequisite: At least one year's teaching experience, approval of instructor, and Admission to Graduate Education. Provides for development of curriculum materials and strategies for specific subject areas; application of curriculum theory to school and classroom situations.

EDUC 55313 - Educational Assessment (3)

Prerequisite: Admission to the Teacher Education Program and an Accelerated Masters program. This course examines assessment and evaluation methods, strategies, and procedures within the classroom context. Both formal and informal methods of gathering educational information and monitoring children's progress will be integral parts of this course. Students learn how to develop appropriate assessment and interpret assessment information for educational program planning. Students also learn how to make modifications and accommodations for testing students who are English language learners and students with disabilities.

EDUC 55510 - Advanced Internship: Youth Advocacy and Educational Studies (1.00-20.00)

Prerequisites: Student must have earned a C or better in at least 9 hours of YAES approved coursework. Internship must be completed during the senior year of undergraduate studies. Accelerated masters students can bridge up to 6 credit hours of this course. This course provides students with an opportunity to gain work experience in disciplines that interface with the field of education through internship. Credit hours can vary. For each credit hour enrolled, students must complete at least 15 clock hours in a professional environment with an organization, school, school district, or related agency that supports the field of education as approved by the COE Director of Community Partnerships or a Dean.

EDUC 55970 - Special Topics in Education (1.00-6.00)

Special Topics in Education: (1-6 credit hours) This course may be repeated for credit. Departmental approval required.

EDUC 55980 - Special Topics in Education (1.00-6.00)

Supervised experience which emphasizes the application of theories of curriculum and instruction in a field-based setting. Options include the introduction of innovative teaching practices into a school or other educational setting or research focused on instructional practices. Graduate students in Education who possess a bachelor's degree with a non-education major and who have completed the specified course work may choose to apply the internship for certification purposes with the approval of the department. (1-6 semester hours with no more than 6 semester hours applied to the Master's degree).

EDUC 60013 - Curriculum Theory (3)

Addresses general principles and practices of curriculum development and curriculum change; organizational patterns for developing curriculum and implementing change.

EDUC 60023 - Analyzing Professional Literature and Writing Professionally (3)

Prerequisites: Early Childhood through sixth grade (EC-6) majors admitted to the 4/1 program or permission from instructor. The purpose of this course is to prepare students to conduct their own graduate research by providing instruction and guided practice in the areas of analyzing and writing research reports and other professional documents.

EDUC 60043 - Action Research (3)

Prerequisite: EDUC 70953 Action research is designed to bring about change in a locale such as a classroom, work site, or institution. This course is designed for students who want to study the theoretical and practical aspects of action research. A unique feature of action research is that the researcher is often simultaneously a participant in the study resulting in some significant differences from other types of quantitative research. Students will read various examples of action research and design an action research study.

EDUC 60053 - Advanced Study of Literacy Instruction (3)

Analyzes recent research, philosophies of instruction, curriculum development, literature, and assessments that can be used to improve students' reading, writing, and language abilities.

EDUC 60063 - Seminar in Elementary School Mathematics (3)

Advanced study of modern curricula, strategies and techniques utilized in teaching and upgrading mathematics instruction in the elementary school.

EDUC 60073 - Seminar in Elementary School Social Studies (3)

Advanced study of curricula, strategies, and techniques utilized in teaching and upgrading social studies instruction in the elementary school.

EDUC 60083 - Seminar in Language and Literacy (3)

This course is a series of seminar classes that explore pedagogical topics within literacy learning and teaching in K-12 education, with particular attention to teacher research. A seminar with a different thematic topic may be taken for a total of 6 hours.

EDUC 60120 - The Role of the In-service Teacher in Preservice Teacher Education (1.00-20.00)

Study of the role of the Cooperating Teacher in a teacher education conference. Includes clinical supervision, mastery learning, observation skills, conferencing skills and program design.

EDUC 60143 - Theories of Human Development (3)

Prerequisites: Admission to College of Education. Selected theories of human behavioral, social, and emotional development.

EDUC 60153 - Seminar in Promoting Literacy in the Subject Areas (3)

Instructional strategies include ways to integrate reading, writing, and study strategies.

EDUC 60203 - Curriculum and Instruction (3)

Prerequisites: Admission into a College of Education graduate program. Examination of relationships between curriculum theories and instructional practices in educational settings; investigation of principles relating to instructional design and implementation; exploration of historical and contemporary trends in curriculum and instruction.

EDUC 60213 - Psychology of Thinking and Learning (3)

Prerequisite: Previous coursework in either educational or developmental psychology or permission of instructor, and admission to Graduate Education. This course focuses on using learning theories and theoretical concepts that are an integral part of teaching and educational practices. Students will gain insights and skills for applying psychological principles to solve authentic problems drawn from personal experiences in education and from case studies and other course readings.

EDUC 60253 - Historical and Philosophical Foundations of Education (3)

Philosophic positions and the implications of these viewpoints on one's approach to and resolution of educational issues and questions will be examined.

EDUC 60263 - Applied Teaching, Learning and Technology (3)

Prerequisites: Admission to the Teacher Education Program. An examination of using educational technology for teaching, learning and professional productivity. Focuses on use of current and emerging technologies for teaching, assessment, research, communication, and collaboration in educational settings. Addresses topics such as finding and evaluating technology resources, designing print and multimedia products, collecting and analyzing data using technology, planning for technology-integrated instruction, and understanding issues and ethical practices related to technology use. Students will design a technology-integrated lesson plans for a school setting. Includes a field component TBA.

EDUC 60293 - Curriculum Workshop (3)

Prerequisite: At least one year's teaching experience, approval of instructor, and Admission to Graduate Education. Provides for development of curriculum materials and strategies for specific subject areas; application of curriculum theory to school and classroom situations.

EDUC 60313 - Educational Assessment (3)

Prerequisite: Admission to the Teacher Education Program and an Accelerated Masters program. This course examines assessment and evaluation methods, strategies, and procedures within the classroom context. Both formal and informal methods of gathering educational information and monitoring children's progress will be integral parts of this course. Students learn how to develop appropriate assessment and interpret assessment information for educational program planning. Students also learn how to make modifications and accommodations for testing students who are English language learners and students with disabilities.

EDUC 60413 - Foundations of Literacy (3)

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.

EDUC 60513 - Practicum in Education (3)

Practical experiences in an educational setting designed to sensitize the student to the challenges of transforming theory into practice. This course may be repeated for credit.

EDUC 60613 - Analysis of Literacy Progress (3)

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.

EDUC 60810 - Seminar in Educational Research (1.00-3.00)

May be repeated up to 13 hours.

EDUC 60823 - Educational Program Evaluation & Research (3)

This is an introductory graduate-level course in program evaluation and research methods. The evaluation of programs, curriculum projects, accreditation standards, and personnel appraisal are explored using different approaches. Other topics include purpose, qualitative and quantitative inquiry designs and data-collecting methods, analysis of data, sampling techniques, communication of results, and reliability and validity. Particular emphasis is placed on case study for the purpose of planning, conducting and writing the evaluation for presentation to stakeholders.

EDUC 60833 - Curriculum History in the United States (3)

This is graduate level course, which explores how curriculum is defined, debated, and applied to classrooms in the United States and the world.

Furthermore, students will examine the various philosophical, cultural, sociological, political, and economic variables that affect issues of curriculum and the lived experience of schools. The research component of this course is intended for each student to explore an issue related to curriculum that is of interest to their further study and professional practice. It is important to note that this course is intended to be a threaded exposure to curriculum history, curriculum theory, and application to contemporary schools and will therefore require diligent attention to the texts and classroom conversation. It is hoped that you, as a learner, will engage with the concepts and questions raised by this course in thoughtful and critical ways that may or may not be resolved by the end of the semester. EDUC 60843: Contemporary Curriculum Theorizing is a companion course to EDUC 60833

EDUC 60843 - Contemporary Curriculum Theory (3)

Contemporary Curriculum Theory explores the curriculum studies field through key readings that shape(d) and chronicle the development of the field as in interdisciplinary intellectual diaspora. The course starts with the Reconceptualization in the 1970s that transformed understandings of curriculum, considers Turns to the cultural and intellectual influences on the field (e.g. hermeneutic, postmodern, interpretive, narrative, critical turns), and attends to emerging approaches to curriculum. Because Curriculum Studies is an interdisciplinary field, the course is open to masters and doctoral students across the academy. EDUC 60833: Curriculum History in the United States is a companion course to EDUC 60843.

EDUC 60953 - Research Literacy and Communication (3)

Prerequisites: Graduate standing in the College of Education; Graduate students for other departments/colleges with instructor permission. Students will develop skills in research literacy and communication. Literacy skills include developing strong questions to guide inquiry, finding and evaluating different sources of information, crediting sources of information, and communicating to a professionally relevant public audience about research one has read and evaluated for trustworthiness. As a core component to research literacy, students will gain broad, conceptual understanding of qualitative and quantitative approaches to educational research.

EDUC 60980 - Advanced Clinical Teaching (1.00-6.00)

Supervised experience which emphasizes the application of theories of curriculum and instruction in a field-based setting. Options include the introduction of innovative teaching practices into a school or other educational setting or research focused on instructional practices. Graduate students in Education who possess a bachelor's degree with a non-education major and who have completed the specified course work may choose to apply the internship for certification purposes with the approval of the department. (1-6 semester hours with no more than 6 semester hours applied to the Master's degree)

EDUC 70813 - Curriculum Studies Seminar (3)

Prerequisite: Must be admitted to Graduate Education. A series of seminars that explore issues in curriculum studies and the scholars who contribute to current understanding of the topic. Each seminar in the series explores particular issues, such as: postcolonial theory, cultural studies, neoliberalism, Noddings and care, race and education. Postmodern/structuralism feminist theory, and the like. Specific offerings will be listed as, EDUC 60813: postcolonial theory, for example. May be repeated for credit.

EDUC 70823 - Inquiry Seminar (3)

A series of seminar classes that explore issues in inquiry and research, their context and connections with learning and education and the scholars who have contributed to our current understanding. Each class in the series explores a different topic, theorist, or school of thoughts. Specific offerings will be listed as, for example, EDUC 70823: Ethnographies, EDUC 70823: Photovoice, EDUC 60813: Film and Documentary as Method. May be repeated for credit.

EDUC 70870 - Advanced Directed Study in Education (1.00-6.00)

Prerequisite: Admitted to Graduate Education. Advanced research on specialized topics in Education.

EDUC 70903 - Treatise (3)

Students complete a paper under the advisement of a faculty member in the department.

EDUC 70923 - Introduction to Applied Qualitative Methods (3)

Prerequisites: Be admitted to the College of Education Graduate Program in Educational Leadership or other TCU graduate program; have completed Research in Education (EDUC 70953) or the equivalent

with a grade of B- or better. This course provides an introduction to qualitative methods used in educational research and by educational practitioners in leadership roles. The course assumes basic knowledge of educational research methods in general, and is intended to provide an overview of and in-depth experience with particular techniques related to research design, data collection, and data analysis commonly associated with qualitative research. The purpose of this course is to introduce graduate students to particular methods and practices related to qualitative inquiry so that they may be able to apply these methods and techniques in their own research and in their respective work contexts.

EDUC 70943 - Apprenticeship in Teaching (3)

Prerequisites: Permission of advisor and agreement with mentoring faculty. Students apprentice with faculty in the teaching of undergraduate and master-level courses. Apprenticing will include course design, lectures, facilitation, student interaction, and assessment as arranged with the mentoring professor. Time requirements will include preparation before class, scheduled class periods and events, and follow-up responsibilities after class.

EDUC 70953 - Research in Education (3)

Students are expected to gain an appreciation of the complexities of the research process, ways of conducting research, and a sense of the power and constraints of the various perspectives within which educational questions are pursued.

EDUC 70960 - Apprenticeship in Research (1.00-3.00)

Prerequisites: EDUC 70953, or permission of the instructor. Students engage in authentic research by apprenticing with one or more faculty members who have vigorous research agendas. A minimum of three hours of apprenticeship is required of all Curriculum Studies students. Course structure, requirements, readings, schedule, and grading criteria will be determined by mentoring faculty as relevant to research project.

EDUC 70963 - Qualitative Inquiry (3)

Prerequisite: EDUC 70953 or permission of the instructor. This course theoretically and practically explores qualitative inquiry as interpretive, constructivist, and naturalistic forms of research. The course will focus on understanding the philosophical assumptions and historical context of qualitative inquiry, and students will work on research projects throughout the semester in order to learn and practice research design, IRB proposal writing, data collection, data management, data analysis, and writing for research presentations and professional publication. Course assignments will assist students in developing the skills and talents necessary for qualitative researchers. The ethics of qualitative inquiry and the ways it attends to the positionality of researchers, research participants, and researcher-participant relationships will also be explored.

EDUC 70970 - Special Problems in Education (1.00-6.00)

Prerequisite: Approval of advisor and instructor in course.

EDUC 70973 - Advanced Qualitative Inquiry (3)

Prerequisite: EDUC 70963, Qualitative Inquiry. Students further develop the theoretical and practical skills and talents necessary for qualitative researchers by working on individual research projects. Students should enter the course with a developed research proposal so they can focus on data collection, analysis and writing. The course explores various forms of qualitative inquiry, which may include narrative inquiry, phenomenology, grounded theory, life history, and other forms, as well as the ethics of qualitative inquiry.

EDUC 70980 - Thesis (1.00-20.00)

Prerequisite: Admission to Candidacy.

EDUC 70983 - Introduction to Quantitative Research (3)

Prerequisite: Admission to a graduate program in the College of Education or permission from instructor and EDUC 70953 or similar foundational research course. This course addresses how to critically read and thoughtfully conduct quantitative research in applied settings.

EDUC 70990 - Thesis (1.00-3.00)

Thesis

EDUC 71813 - Curriculum Studies Seminar (WGST) (3)

Prerequisites: Must be admitted to Graduate Education. A series of seminars that explore issues in curriculum studies with interdisciplinary attention to women, gender, and sexuality studies (WGST). Each seminar in the series explores particular issues, such as: feminist theory methodology, queer theory, Noddings care, new material feminism, etc.

Specific offerings will be listed as, EDUC 72813: Curriculum Studies Seminar (WGST): Feminist Theory Methodology, for example. This course may be taken for Education and WGST graduate credit. May be repeated for credit.

EDUC 72813 - Curriculum Studies Seminar (CRES) (3)

Prerequisites: Must be admitted to Graduate Education. A series of seminars that explore issues in curriculum studies with interdisciplinary attention to comparative race and ethnic studies (CRES). Each seminar in the series explores particular issues, such as: postcolonial theory, cultural studies, race and education. Specific offerings will be listed as, EDUC 72813: Curriculum Studies Seminar (CRES): Race Education, for example. This course may be taken for Education and CRES graduate credit. May be repeated for credit.

EDUC 73813 - Curriculum Studies Seminar (WGST-CRES) (3)

Prerequisites: Must be admitted to Graduate Education. A series of seminars that explore issues in curriculum studies with interdisciplinary attention to women, gender, and sexuality studies (WGST) and comparative race and ethnic studies (CRES). Each seminar in the series explores particular issues, such as: intersectionality, neoliberalism, endarkened feminism. Specific offerings will be listed as, EDUC 73813: Curriculum Studies Seminar (WGST-CRES): Neoliberalism, for example. This course may be taken for Education, WGST, and CRES graduate credit. May be repeated for credit.

EDUC 90980 - Dissertation (1.00-6.00)

Dissertation. A maximum of six hours may be taken.

EDUC 90990 - Dissertation (1.00-6.00)

Dissertation. May be taken for a total of six semester hours.

ENGL - English

ENGL 55763 - Race and Gender in American Literature (3)

Examination of race and gender in American literature in relation to recent developments in fields such as women's studies, gender studies, critical race studies, Native American studies, and/or African American studies. Themes will vary by semester. Student cannot receive credit for ENGL 55763 and 80523.

ENGL 55813 - American Literature since 1865 (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. The second of two period surveys in American Literature, this one spanning from after the Civil War to the present. This course considers literary antecedents, the conventions of various genres, the cultural circumstances of composition, and interpretive strategies. The English Department recommends that ENGL 30133 and 30143 be taken consecutively. Student cannot receive credit for ENGL 55813 and ENGL 30143.

ENGL 50133 - Seminar in Literature and History (3)

Prerequisites: Junior standing with a minimum of 9 hours in literature, history, and/or political science, or graduate standing in English or History. Interdisciplinary study of society, culture, or politics through the literature and history of a given era (variable topic). Open to graduate students and to advanced undergraduate students. Students will receive instruction from both an English professor and a History professor in content (literary works, historical studies, primary documents in periodicals or archives) and discipline-specific research methods.

ENGL 50233 - Studies in Creative Writing (3)

Prerequisites: CRWT 10203, CRWT 20103, or CRWT 20133. Prior to enrollment, students are also strongly encouraged to take an upper-division creative writing course. Studies in Creative Writing is an intensive creative writing workshop open to students (graduate and advanced undergraduates) who have a strong background in literature and imaginative writing. Depending on the semester and the selected genre, this course will pay special attention to invention, point-of-view, voice, form, and genre-appropriate theory. Student cannot receive credit for CRWT 55143 and ENGL 50233.

ENGL 50243 - Teaching Writing (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. A course for teachers of English combining theories of composition with practical pedagogy and classroom strategies for the teaching of writing. Not applicable toward degree requirements for the Ph.D. in English.

ENGL 50253 - Classical Rhetoric (3)

Prerequisite: Junior or senior standing, permission of instructor. This course examines the emergence of rhetoric in Antiquity and traces the impact of classical rhetoric up to the Middle Ages. A substantial amount of the course is devoted to learning about the relationship between oral and written discourse, the impact of literacy, and the adaptability of systems of communication to technology and society. The implications of such phenomena are examined in different periods in an effort to develop an historical perspective about the relationship between cognition and expression within cultural conditions. Student cannot receive credit for WRIT 55273 and ENGL 50253.

ENGL 50973 - Directed Study in English (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. Directed Study in English. Student cannot receive credit for ENGL 55973 and ENGL 50973.

ENGL 55003 - Introduction to Graduate Studies and the Profession of English (3)

Prerequisites: Admission to TCU graduate program in English or by permission. An introduction to the Profession of English Studies and its sub disciplines; study of the history of the development, changes, and current trends in the field; various disciplinary practices; opportunities for research, writing and publication in the field, including digital scholarship; resources and requirements for graduate study at TCU; variety of thesis and dissertation problems and procedures; job trends, career paths and basics of professionalization. Student cannot receive credit for ENGL 55003 and ENGL 60113.

ENGL 55103 - Chaucer (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. An intensive study of Chaucer's major poetry, especially *The Canterbury Tales* and *Troilus and Criseyde*, in Middle English. Emphasis is on Chaucer as inheritor and innovator of medieval ideas about God, social order, gender, authorship, and the morality of reading and the function of poetry. Some prior experience with early literature is expected. Student cannot receive credit for ENGL 55103 and ENGL 40403.

ENGL 55113 - British Literature to 1800 (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. An introductory investigation into the peculiar aesthetic problems involved in reading and interpreting literary language. Particular attention is given to the tensions between literature, readers, and cultural contexts. Both traditional and contemporary approaches are examined. Readings range from folk tales to literary classics to recent writing in the philosophy of language. Student cannot receive credit for ENGL 55113 and 30113.

ENGL 55123 - Literary Criticism (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. An historical study of major developments in the theory of literature since Plato. The first half of the course surveys representatives of the most important positions; the second half surveys how these positions remain influential in 20th century thought. Student cannot receive credit for ENGL 55123 and ENGL 40123.

ENGL 55133 - Introduction to Literary Theory (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. An introductory investigation into the peculiar aesthetic problems involved in reading and interpreting literary language. Particular attention is given to the tensions among literature, readers, and cultural contexts. Both traditional and contemporary approaches are examined. Readings range from folk tales to literary classics to recent writing in the philosophy of language. Students cannot receive credit for ENGL 55133 and ENGL 30103.

ENGL 55143 - History of the Language (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. The study of the origins and development of Modern English. Student cannot receive credit for ENGL 55143 and ENGL 40323.

ENGL 55153 - Prose and Poetry of the English Renaissance (3)

The prose writers and poets of 16th and 17th century England in relation to the cultural circumstances influencing and being influenced by their works. Topics may include the prospect and enactment of censorship; the centrality of the patronage system; courts and courtiers; changing views of monarchy and obedience; religious controversy; issues of

gender, ethnicity and class; literature and science; pseudo-nonfictional strategies; adaptations of the bible, history, and mythology; and early book production and circulation. Student cannot receive credit for ENGL 55153 and ENGL 60423.

ENGL 55163 - Milton and his Contemporaries (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. This course examines major literary texts written during and immediately after the English Revolution of 1640-1660 with a focus on the poetry and prose of John Milton and his major contemporaries. Topics include Protestant and Catholic poetics, poetry and theology, literary responses to political upheaval and the rise of the new empirical sciences, the status of epic poetry in modern society, and the literary consequences of changes in the structure of family life and gender. Student cannot receive credit for ENGL 55163 and ENGL 40473.

ENGL 55173 - Shakespeare and Marlowe (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. Comparative study of several plays each by Shakespeare and Marlowe, placing their work in historical and social contexts. Reading includes historical documents and literary theory. Student cannot receive credit for ENGL 55173 and ENGL 40483.

ENGL 55183 - Literature Pedagogy (3)

This course introduces graduate students to the history and theory of teaching literature and prepares them to teach in the undergraduate classroom. Student cannot receive credit for ENGL 55183 and ENGL 60803.

ENGL 55193 - Authorship in American Literary Culture (3)

This course examines both shifting conceptions of authorship (e.g., writer versus author) and issues associated with authorial practices in American literary culture. Topics may include individual authors' careers and questions about how conditions in different time periods (e.g., the rise/fall of magazine culture or changes in the public's reading habits) have shaped literary careers. Students may repeat this course, which could utilize diverse organizing principles in differing offerings (e.g., popular culture authorship versus high art; American authorship as seen in critical theory; factors promoting the shift from amateur activity to professionalization). Student cannot receive credit for ENGL 55193 and ENGL 70593.

ENGL 55203 - Postcolonial Literature (3)

Seminar in the cultural politics of countries formerly colonized by Great Britain. Topics vary: recent offerings have focused on India, Ireland, South Africa, Kenya, and Zimbabwe. Student cannot receive credit for ENGL 55203 and 80463.

ENGL 55213 - Seminar in American Literature since 1900 (3)

Seminar in American literature since 1900. Student cannot receive credit for ENGL 55213 and 80513.

ENGL 55223 - Rhetoric and Literature (3)

The applications and implications of rhetorical criticism for the study of literature. Student cannot receive credit for ENGL 55223 and ENGL 70713.

ENGL 55233 - Seminar in British Literature of the Victorian Period (3)

Variable emphasis each semester. (Past offerings have included The Brownings' Circle.) Student cannot receive credit for ENGL 55223 and ENGL 80453.

ENGL 55243 - Seminar in British Literature of the Eighteenth Century (3)

Seminar in British literature of the eighteenth century. Student cannot receive credit for ENGL 55243 and ENGL 80433.

ENGL 55253 - Classical Rhetoric (3)

Prerequisite: Junior or senior standing, permission of instructor. This course examines the emergence of rhetoric in Antiquity and traces the impact of classical rhetoric up to the Middle Ages. A substantial amount of the course is devoted to learning about the relationship between oral and written discourse, the impact of literacy, and the adaptability of systems of communication to technology and society. The implications of such phenomena are examined in different periods in an effort to develop an historical perspective about the relationship between cognition and expression within cultural conditions. Student cannot receive credit for ENGL 55253 and ENGL 50253.

ENGL 55273 - British Literature since 1800 (3)

Prerequisites: ENGL 10803, 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. Two period surveys, the first of medieval and early modern literature, and the second of nineteenth- and twentieth-century literature. Both courses will consider literary antecedents, the conventions of various genres, the cultural circumstances of composition, and interpretive strategies. Students may take both courses or either course. The English Department recommends that ENGL 30113 and 30123 be taken consecutively. Students cannot receive credit for ENGL 55273 and ENGL 30123.

ENGL 55283 - British Literature: The Bloomsbury Group (3)

Prerequisites: ENGL 10803, 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. A close scrutiny of early 20th century British literature and criticism written by and about the intellectual circle called the Bloomsbury Group. Writers and artists may include Virginia and Leonard Woolf, E.M. Forster, Lytton Strachey, Roger Fry, Duncan Grant, Vanessa and Clive Bell, and Desmond MacCarthy. Emphasis will be given to the writers' engagement with, contributions to, and/or repudiation of Modernism, Empire, sexual norms, and class consciousness. Student cannot receive credit for ENGL 55283 and ENGL 30463.

ENGL 55303 - Research Seminar in British Literature (3)

Prerequisites: English majors or minors only; students must have junior or senior standing and must have completed one 30000-level ENGL or WRIT course. Introduces English majors and minors to a sustained, long-format research project over the course of the semester. Students will discuss and examine the practical and professional aspects of the English major while attempting to synthesize and integrate their various learning experiences in British literature and writing. Student cannot receive credit for ENGL 55303 and ENGL 38013.

ENGL 55313 - The Roaring Twenties (3)

Prerequisites: ENGL 10803, 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. A study of major American authors emerging in the Twenties, the cultural context for their art, and the influences of their achievements. Student cannot receive credit for ENGL 55313 and ENGL 30503.

ENGL 55323 - Medieval and Early Modern Women Writers (3)

Prerequisites: ENGL 10803, ENGL 20803 and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. A study of one or more female authors writing in the medieval or early modern periods in Britain, with attention to the development of beliefs about women's roles and characters and the ways these beliefs were accepted, challenged, or discredited. Genres, authors, and approaches may vary by section. Student cannot receive credit for ENGL 55323 and ENGL 30633.

ENGL 55333 - Shakespeare (3)

Prerequisites: ENGL 10803, 20803, and at least one 10000- or 20000-level ENGL/WRIT course. An intensive study of Shakespeare's major works. Emphasis will be on developing interpretive strategies for understanding Shakespeare's aesthetic achievement within larger literary and historical contexts. Topics may include attention to how Shakespeare's works were written, performed, and published as ways of understanding their significance to both early modern and contemporary culture. Student cannot receive credit for ENGL 55333 and ENGL 40493.

ENGL 55343 - Studies in Early American Literature (3)

Prerequisites: ENGL 10803, 20803, and one 20000-level ENGL/WRIT course. Concentrated study of American literature before 1830. Topics, genres, authors, and approaches will vary by semester. May be taken more than once for credit under different sub-headings. Student cannot receive credit for ENGL 55343 and ENGL 40543.

ENGL 55353 - U.S. Multi-Ethnic Literature (3)

Prerequisites: ENGL 10803, 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. An analysis of the fiction, poetry, drama and essays by major ethnic writers from the United States. From a comparative angle, this course will explore the historical, social, cultural and racial contexts that shape the literature. Several critical approaches will be taken to show interrelationships among writers. Student cannot receive credit for ENGL 55353 and ENGL 30693.

ENGL 55363 - Transnational American Literature (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. Exploration of American literature from a transnational perspective. Topics vary by semester. May be

taken only once for credit. Student cannot receive credit for ENGL 55363 and ENGL 40663.

ENGL 55373 - Studies in 20th Century American Literature (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. Concentrated study of American literature, 1900 to the present. Topics, genres, authors, and approaches will vary by semester. May be taken more than once for credit under different sub-headings. Student cannot receive credit for ENGL 55373 and ENGL 40683.

ENGL 55383 - The Victorian Novel (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one 10000- or 20000-level ENGL/WRIT course. This course examines the genre of the Victorian novel, asking why it emerges in this period to challenge the preeminence of poetry, why realism becomes its dominant style, and how particular novelists respond to the substantial changes occurring in British society, including industrialization, political reform, and changing relations between the sexes and classes. Student cannot receive credit for ENGL 55383 and ENGL 30453.

ENGL 55393 - Satire (3)

Prerequisites: ENGL 10803, 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. Examines the nature and uses of satire, concentrating on the variety of satiric forms. Readings will include prose fiction, essays, and poetry written by European and American satirists. Student cannot receive credit for ENGL 55393 and ENGL 30733.

ENGL 55403 - Women Poets and Poetic Tradition (3)

Prerequisites: ENGL 10803, 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. A survey of British, American and Anglophone women poets from the 16th century to the present. Emphasis will be given to women writers' engagement with, contribution to, and rewriting of poetic tradition; to the social and historical conditions affecting women's poetic production; and to the relation between poetry, poetics, and theories of gender. Student cannot receive credit for ENGL 55403 and ENGL 30493.

ENGL 55413 - Studies in Medieval Literature and Culture (3)

Prerequisite: ENGL 10803, ENGL 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. Concentrated study of Medieval literature and culture, 500-1500. Topics, genres, authors, and approaches will vary by semester. May be taken more than once for credit under different subheadings. Student cannot receive credit for ENGL 55413 and ENGL 30413.

ENGL 55423 - American Literature to 1865 (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. The first of two period surveys in American Literature, this one spanning from the Colonial times through the Civil War. This course considers literary antecedents, the conventions of various genres, the cultural circumstances of composition, and interpretive strategies. Students may take both courses or either course. Student cannot receive credit for ENGL 55423 and ENGL 30133.

ENGL 55433 - Wilde Years: Oscar Wilde and the 1890s (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. This course examines the writings of Oscar Wilde and his contemporaries to explore how literature constructs and reflects gender, sexuality, and social debates. Particular attention will be given to diverse sexualities represented by New Woman writers, new theories of sexual inversion developed in the 1890s and Oscar Wilde's trials and imprisonment on the grounds of indecency with another man. Student cannot receive credit for ENGL 55433 and ENGL 30473.

ENGL 55443 - African American Literature (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one additional 10000- or 20000-level ENGL/WRIT/CRWT course. An analysis of the fiction, poetry, drama and/or essays written by African Americans, with texts potentially drawn from the slave era through post-civil rights, exploring chronologically the historical, social, cultural and racial contexts which shape the literature. Student cannot receive credit for ENGL 55443 and ENGL 30573.

ENGL 55453 - King Arthur in Literature and Legend (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. Surveys the growth of the Arthurian tradition from legend and medieval literature into the 19th and 20th centuries, with special attention to Malory, Tennyson, Twain,

and Bradley. Student cannot receive credit for ENGL 55453 and ENGL 30673.

ENGL 55463 - Transnational Arabs: the Middle East and North Africa in Diaspora (3)

Prerequisites: ENGL 10803, 20803 and at least one ENGL/ WRIT/CRWT class. This course examines the political and social histories of Middle Eastern and North African diasporic communities, paying close attention to how they address creativity and concerns about cultural preservation and assimilation. Class discussion will be grounded in critical race theory constructivist approaches to literature and culture. Student cannot receive credit for ENGL 55463 and ENGL 30883.

ENGL 55473 - Research Seminar in American Literature (3)

Prerequisites: English majors or minors only; students must have junior or senior standing and must have completed one 30000-level ENGL/ WRIT/CRWT course. Introduces English majors and minors to a sustained, long-format research project over the course of the semester. Students will discuss and examine the practical and professional aspects of the English major while attempting to synthesize and integrate their various learning experiences in American literature and writing. This course is not repeatable for credit. Student cannot receive credit for ENGL 55473 and ENGL 38023.

ENGL 55483 - Victorian Women Writers (3)

An intensive examination of Victorian women poets, novelists, and prose writers in the context of historical conditions and feminist theory. Student cannot receive credit for ENGL 55483 and ENGL 70483.

ENGL 55493 - Digital Approaches to Textual Problems (3)

Students will explore the methods and theories that underlie big data in the humanities. Students will examine how we can better ask and answer research questions in rhetoric, culture, and literature through the use of digital tools such as R and/or Python. Students will work independently and collaboratively to perform humanities research using these tools. Through a series of close reading, distant reading, writing, and programming assignments, students will also examine issues of race, class, gender, and sexuality. Students will learn to think critically about the uses and limitations of digital methods and theories. Student cannot receive credit for ENGL 55493 and ENGL 30873.

ENGL 55503 - Studies in Nineteenth-Century American Literature (3)

Prerequisites: ENGL 10803, ENGL 20803, and one 20000-level ENGL/WRIT/CRWT course. Concentrated study of American literature, 1800-1899. Topics, genres, authors, and approaches will vary by semester. May be taken more than once for credit under different sub-headings. Student cannot receive credit for ENGL 55503 and ENGL 40553.

ENGL 55513 - Introduction to Modern Critical Theory (3)

A seminar on major authors and issues in contemporary critical theory. Student cannot receive credit for ENGL 55113 and ENGL 60123.

ENGL 55523 - Archival Scholarship (3)

Prerequisite: Admission to a TCU graduate program. Study of theories and promising practices for doing effective archival research; critical reading of influential examples from archival scholarship; use of traditional and digital archives; practice developing archival projects; examination of issues associated with archives and archival research today. Student cannot receive credit for ENGL 55523 and ENGL 60133.

ENGL 55533 - Literature of Latinx Diaspora (3)

Examination of significant works of literature in multiple genres by U.S. Latinx authors. Particular emphasis will be put on a comparative approach, exploring the literature of Puerto Rican, Cuban, Chicana/o, Mexican, Dominican, and/or Nicaraguan Americans. Texts vary by semester. Student cannot receive credit for ENGL 55533 and ENGL 80533.

ENGL 55543 - Renaissance Drama Exclusive of Shakespeare (3)

The study of the works of major Elizabethan and Jacobean playwrights. Student cannot receive credit for ENGL 55543 and ENGL 60433.

ENGL 55553 - American Novel I (3)

The American novel from its beginnings to 1890. Topics examined include the Gothic and sentimental novelists (Brown, Rowson), the early national novel (Cooper), the Romantics (Hawthorne, Melville), Realism and the Realists (Twain, James, Howells), and the early Naturalists (Norris). Student cannot receive credit for ENGL 55553 and ENGL 70503.

ENGL 55563 - Toni Morrison (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. An intensive study of the works of Toni Morrison. Attention will also be given to the cultural contexts (historical and contemporary) that structure the worlds of Morrison's fiction and influence the reception of her work. Student cannot receive credit for ENGL 55563 and ENGL 40533.

ENGL 55573 - U.S. Women's Writing I (3)

A study of American women's writings from the colonial period through 1865, with attention to the ways the literature reflects, responds to, and shapes perceptions of women's roles, identities, and opportunities at various historical moments. Topics, authors, genres, and approaches may vary by semester. Student cannot receive credit for ENGL 55573 and ENGL 40513.

ENGL 55583 - Seminar in Contemporary African-American Literature (3)

This seminar provides graduate students with the opportunity to research and present theoretical approaches to representative contemporary fiction by African-Americans. Continuities will be established between theories shaped by the Black Arts Movement of the sixties and those shaped by post-modernist thinking. Representative writers may include Alice Walker, Toni Cade Bambara, Charles Johnson, Toni Morrison and Ernest Gaines. Student cannot receive credit for ENGL 55583 and ENGL 80583.

ENGL 55593 - The Long Novel (3)

Prerequisites: ENGL 10803, 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. An intensive study of the pleasures and difficulties of long novels, which represent a unique genre of literature. Each semester focuses on three or four novels generally regarded as works of tremendous influence, but which may be too involved for study in survey courses. The novels will be selected from different periods, cultures, and languages. Student cannot receive credit for ENGL 55593 and ENGL 40743.

ENGL 55613 - Women's Rhetorics (3)

This course examines the histories, theories, and practices of women's rhetorics from the classical era through the present. Students will examine primary texts of women rhetors - essays, ordinary writing such as letters and autobiographies and speeches to name only a few - as well as secondary sources of those texts paying particular attention to the ways gender race class religion place sexual orientation and politics shape sense of audiences methods of invention arrangement choices of style form tone and genre. Student cannot receive credit for ENGL 55613 and ENGL 80613.

ENGL 55633 - Love, Sex, and Power in Renaissance England (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one additional 10000- or 20000-level ENGL/WRIT/CRWT course. An advanced course on the subject of romantic love, gender relations, and sexuality in literature of the English Renaissance. This course examines the political, cultural, and aesthetic contexts of love and sex that shaped representations of desire in some of the Renaissance's most enduring works, including drama and poetry by Shakespeare and others. Student cannot receive credit for ENGL 55633 and ENGL 40633.

ENGL 55713 - Mexican American Culture (3)

The course examines expressive culture that reflects and shapes the way people think, behave, and give their lives meaning. The expressive culture includes history, literature, and lore considered as resources for people to address their needs and circumstances, especially in relation to social positions, gender, self-identification, politics, and ethics. Other topics include U.S. Mexico relations, social conflict, resistance movements, religion, and cultural poetics. Student cannot receive credit for ENGL 55713 and ENGL 30713.

ENGL 55723 - Contemporary Latinx Literature (3)

Prerequisites: ENGL 10803, ENGL 20803 and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. Study of literary works in English on various genres by U.S. authors of Puerto Rican, Mexican, Nicaraguan, Cuban, Dominican, and/or Chicano/a backgrounds. Historical emphasis will be limited to the twentieth and twenty-first centuries. Topics of analysis include race, gender, class, nationality, migration, immigration, and urban studies. Student cannot receive credit for ENGL 55723 and ENGL 30703.

ENGL 55733 - Children's Literature (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. A study of the history and criticism of children's literature, with an emphasis on Anglophone works from the last 200 years. Student cannot receive credit for ENGL 55733 and ENGL 40733.

ENGL 55743 - Urban Experiences and American Literature (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one 10000- or 20000- level ENGL/WRIT/CRWT course. An examination of depictions of cities in American literature, with attention to the ways urban experiences shape Americans' lives, social interactions, and identities. The historical period under inquiry may vary by semester. Student cannot receive credit for ENGL 55743 and ENGL 30163.

ENGL 55753 - Law and Literature (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one other 10000- or 20000-level ENGL/WRIT/CRWT course. This course will explore the parallel interests and debates of literary and legal discourse. Subtopics and time period may vary by semester. Student cannot receive credit for ENGL 55753 and ENGL 30823.

ENGL 55763 - Race and Gender in American Literature (3)

Examination of race and gender in American literature in relation to recent developments in fields such as women's studies, gender studies, critical race studies, Native American studies, and/or African American studies. Themes will vary by semester. Student cannot receive credit for ENGL 55763 and 80523.

ENGL 55773 - Literature of the Middle East and North Africa (3)

Prerequisites: ENGL 10803 and ENGL 20803 and at least one ENGL/WRIT/CRWT class. This class examines literature from across the Middle East and North Africa, addressing a wide range of topics such as dissent and conformity, religious and secular identity, sex and gender, conflict and reconciliation, etc. Discussions will be grounded in critical race theory cultural, constructivist approaches to literature. Student cannot receive credit for ENGL 55773 and ENGL 30863.

ENGL 55783 - American Non-Fiction Prose (3)

Major documents of non-fiction prose in American literature. Student cannot receive credit for ENGL 55783 and ENGL 70573.

ENGL 55793 - American Literature in a Global Context (3)

This course engages in comparative, cross-cultural study of American literature in a global context. Affirming the field's increasing commitment to extending the scope of American literatures beyond U.S. national borders, readings and student research will explore a range of texts using one or more of these frameworks: hemispheric, trans-Atlantic, border-crossing, inter-American. Students may repeat this course based on differing thematic and organizational approaches being used for the content of particular offerings. Student cannot receive credit for ENGL 55793 and ENGL 70583.

ENGL 55813 - American Literature since 1865 (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. The second of two period surveys in American Literature, this one spanning from after the Civil War to the present. This course considers literary antecedents, the conventions of various genres, the cultural circumstances of composition, and interpretive strategies. The English Department recommends that ENGL 30133 and 30143 be taken consecutively. Student cannot receive credit for ENGL 55813 and ENGL 30143.

ENGL 55823 - American Fiction, 1960 to the Present (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. A study in the development of American fiction from 1960 to the present. Explores the relationship between literature and the concerns of contemporary society. Examines current trends and topics in American fiction and introduces students to recent literary analysis and critical debates. Student cannot receive credit for ENGL 55823 and ENGL 30593.

ENGL 55833 - Australian Literature (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. This course examines a wide variety of Australian literature written between European colonization in 1788 and the present. Student cannot receive credit for ENGL 55833 and ENGL 30843.

ENGL 55843 - Research Seminar in Global Literature (3)

Prerequisites: English majors or minors only; students must have junior or senior standing and must have completed one 30000-level ENGL/WRIT/CRWT course. Introduces English majors and minors to a sustained, long-format research project over the course of the semester. Students will discuss and examine the practical and professional aspects of the English major while attempting to synthesize and integrate their various learning experiences in global and diasporic literatures and writing. This course is not repeatable for credit. Student cannot receive credit for ENGL 55843 and ENGL 38033.

ENGL 55853 - Seminar in Shakespeare (3)

Seminar in Shakespeare. Student cannot receive credit for ENGL 55853 and ENGL 80413.

ENGL 55973 - Directed Study in English (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. Directed Study in English. Student cannot receive credit for ENGL 55973 and ENGL 50973.

ENGL 60103 - Bibliography and Methods of Research (3)

History, materials and techniques of manuscript and book production; bibliographical description; use of libraries and bibliographical tools, introduction to textual analysis; thesis and dissertation problems and procedures.

ENGL 60113 - Introduction to Graduate Studies and the Profession of English

Prerequisites: Admission to TCU graduate program in English or by permission. An introduction to the Profession of English Studies and its sub disciplines; study of the history of the development, changes, and current trends in the field; various disciplinary practices; opportunities for research, writing and publication in the field, including digital scholarship; resources and requirements for graduate study at TCU; variety of thesis and dissertation problems and procedures; job trends, career paths and basics of professionalization. Student cannot receive credit for ENGL 55003 and ENGL 60113.

ENGL 60123 - Introduction to Modern Critical Theory (3)

A seminar on major authors and issues in contemporary critical theory. Student cannot receive credit for ENGL 55113 and ENGL 60123.

ENGL 60133 - Archival Scholarship (3)

Prerequisite: Admission to a TCU graduate program. Study of theories and promising practices for doing effective archival research; critical reading of influential examples from archival scholarship; use of traditional and digital archives; practice developing archival projects; examination of issues associated with archives and archival research today. Student cannot receive credit for ENGL 55523 and ENGL 60133.

ENGL 60143 - Methods in American Studies (3)

This course will survey a range of ways American studies has defined itself and enacted its methods, including through major scholarship, addresses by leaders in the field, and pedagogical interventions such as anthologies, institutes, and major conferences. Students' projects will invite them to situate their own work self-reflexively and productively in dialogue with these field-making activities.

ENGL 60203 - Writing for the Professions (3)

A workshop for the student who wishes to learn how to write in a specific academic discipline or in a profession. Student cannot receive credit for WRIT 55773 and ENGL 60203.

ENGL 60303 - Seminar in Medieval Studies (3)

An Introduction to Medieval literature through the study of Old and Middle English. Key writings will include Beowulf, and texts by Chaucer and the Pearl Poet.

ENGL 60413 - Chaucer (3)

Chaucer's language and poems with emphasis on The Canterbury Tales as a work of art and as a reflection of the age.

ENGL 60423 - Prose and Poetry of the English Renaissance (3)

The prose writers and poets of 16th and 17th century England in relation to the cultural circumstances influencing and being influenced by their works. Topics may include the prospect and enactment of censorship; the centrality of the patronage system; courts and courtiers; changing views of monarchy and obedience; religious controversy; issues of gender, ethnicity and class; literature and science; pseudo-nonfictional strategies; adaptations of the bible, history, and mythology; and early

book production and circulation. Student cannot receive credit for ENGL 55153 and ENGL 60423.

ENGL 60433 - Renaissance Drama Exclusive of Shakespeare (3)

The study of the works of major Elizabethan and Jacobean playwrights. Student cannot receive credit for ENGL 55543 and ENGL 60433.

ENGL 60443 - Seventeenth Century Poetry (3)

Study of the works of major seventeenth century poets including Donne and Marvell.

ENGL 60453 - The Long Eighteenth Century (3)

British literature of multiple genres (poetry, prose, drama, novel, memoir, diary, broadsheets and ballads) from 1660 to 1830. Themes vary by semester.

ENGL 60473 - British Novel I (3)

Major fiction to the early nineteenth (1832) century.

ENGL 60503 - Early American Literature (3)

American literature from first settlement through 1800, including the Puritan writers (Winthrop, Mather, etc.), the shapers of the American Republic (Paine, Jefferson, Franklin, the Federalist writers, etc.), and early writers of the New Nation (Brown, Dwight, Freneau, Rowson, etc.).

ENGL 60513 - Teaching College Composition (3)

Designed to support graduate instructors' teaching of English. Students in the course will explore theories and methods of syllabus construction, teaching, assigning, and grading student writing.

ENGL 60703 - Introduction to Composition Studies (3)

A survey of the major contemporary theoretical statements about composing and the teaching of composition. Student cannot receive credit for WRIT 55353 and ENGL 60703.

ENGL 60713 - Modern Rhetoric (3)

Major theories of rhetoric and important rhetoricians of the twentieth century. Student cannot receive credit for WRIT 55303 and 60713.

ENGL 60723 - Research Practices in Composition and Rhetoric (3)

History, practices, and methodological concerns; use of archives and information systems; publishing and disciplinary conventions; assessment; fieldwork; ethics, thesis and dissertation problems and procedures. Student cannot receive credit for WRIT 55313 and ENGL 60723.

ENGL 60733 - Language and Theory (3)

A study of the major authors and theories about language and its relationship to culture and technology from antiquity to the present day.

ENGL 60803 - Literature Pedagogy (3)

This course introduces graduate students to the history and theory of teaching literature and prepares them to teach in the undergraduate classroom. Student cannot receive credit for ENGL 55183 and ENGL 60803.

ENGL 70403 - British Novel II (3)

Major fiction from the early nineteenth to the early twentieth century.

ENGL 70413 - Romantic Poetry and Prose (3)

The study of works by Wordsworth, Coleridge, Byron, Shelley, Keats and others.

ENGL 70423 - Victorian Poetry and Prose (3)

The study of major works and authors, including Arnold, Browning and Tennyson.

ENGL 70433 - Modern British Novel (3)

The study of major fiction of the twentieth century.

ENGL 70443 - Modern British Poetry (3)

Study of twentieth century British poets.

ENGL 70453 - Modern British Drama (3)

The study of important plays and playwrights of the twentieth century.

ENGL 70463 - Modern British Literature (3)

Survey of major trends and writers in British literature since 1900.

ENGL 70473 - Twentieth Century Irish Writers (3)

Study of important Irish works, with emphasis on Yeats, Joyce and Synge.

ENGL 70483 - Victorian Women Writers (3)

An intensive examination of Victorian women poets, novelists, and prose writers in the context of historical conditions and feminist theory. Student cannot receive credit for ENGL 55483 and ENGL 70483.

ENGL 70493 - Nineteenth Century Studies in British Literature (3)

Selected topics in nineteenth-century British literature (variable emphasis each semester). Past offerings have included the Medieval Revival and Nineteenth-Century Literature and Rhetoric.

ENGL 70503 - American Novel I (3)

The American novel from its beginnings to 1890. Topics examined include the Gothic and sentimental novelists (Brown, Rowson), the early national novel (Cooper), the Romantics (Hawthorne, Melville), Realism and the Realists (Twain, James, Howells), and the early Naturalists (Norris). Student cannot receive credit for ENGL 55553 and ENGL 70503.

ENGL 70513 - American Novel II (3)

The development of the American novel from 1890 to the start of World War II.

ENGL 70523 - American Novel III (3)

The development of the American novel from 1940 to the present.

ENGL 70533 - The American Short Story (3)

A study of short fiction in American literature.

ENGL 70543 - American Poetry I (3)

The development of American poetry from the beginnings to 1900.

ENGL 70553 - American Poetry II (3)

Major poets and works of the twentieth century.

ENGL 70563 - American Stagings: Culture, Theatre, Performance (3)

Dramas from U.S. literature will be read alongside other documents and literary texts in order to foreground the genre's relation to culture, historical, and social contexts. Attention will be given to related cultural phenomena and theoretical concepts, such as the history of U.S. theatre, theatricality in other venues, or performance theory.

ENGL 70573 - American Non-Fiction Prose (3)

Major documents of non-fiction prose in American literature. Student cannot receive credit for ENGL 55783 and ENGL 70573.

ENGL 70583 - American Literature in a Global Context (3)

This course engages in comparative, cross-cultural study of American literature in a global context. Affirming the field's increasing commitment to extending the scope of American literatures beyond U.S. national borders, readings and student research will explore a range of texts using one or more of these frameworks: hemispheric, trans-Atlantic, border-crossing, inter-American. Students may repeat this course based on differing thematic and organizational approaches being used for the content of particular offerings. Student cannot receive credit for ENGL 55793 and ENGL 70583.

ENGL 70593 - Authorship in American Literary Culture (3)

This course examines both shifting conceptions of authorship (e.g., writer versus author) and issues associated with authorial practices in American literary culture. Topics may include individual authors' careers and questions about how conditions in different time periods (e.g., the rise/fall of magazine culture or changes in the public's reading habits) have shaped literary careers. Students may repeat this course, which could utilize diverse organizing principles in differing offerings (e.g., popular culture authorship versus high art; American authorship as seen in critical theory; factors promoting the shift from amateur activity to professionalization). Student cannot receive credit for ENGL 55193 and ENGL 70593.

ENGL 70603 - Digital Approaches to Textual Problems (3)

In this class, students will explore the methods and theories that underlie the move toward 'big data' in the humanities. Students will examine how we can better understand research questions in rhetoric, culture, and conceptual issues (such as gender and sexuality) through the use of computational tools. Through a series of close-reading, writing, and programming assignments, students will not only learn how to utilize digital methods, but also how to think critically about these methods. Students will gain a working familiarity with the tools and scholarly conventions prominent in the digital humanities.

ENGL 70703 - History of Rhetoric (3)

A study of the major authors and issues in the history of rhetoric from antiquity to the present day. Student cannot receive credit for WRIT 55363 and ENGL 70703.

ENGL 70713 - Rhetoric and Literature (3)

The applications and implications of rhetorical criticism for the study of literature. Student cannot receive credit for ENGL 55223 and ENGL 70713.

ENGL 70723 - Rhetoric and Criticism (3)

A study of classical and modern rhetorical theory, with emphasis on the uses of rhetoric in the study of modern communication.

ENGL 70733 - Image Studies and Multimodal Rhetorics (3)

A study of various non-discursive modes used to make meaning with emphasis on the rhetorical use of multisensory images.

ENGL 70771 - Non-Thesis (1)

Selected when enrolling only for non-thesis examination or preparation for the examination.

ENGL 70970 - Directed Studies (1.00-20.00)

Directed Studies in English.

ENGL 70980 - Thesis (1.00-6.00)

Thesis

ENGL 70990 - Thesis (1.00-20.00)

Thesis

ENGL 80123 - Seminar in Literary Theory (3)

A seminar in the theoretical problematics of literary language and in current trends within critical theory. Topics change each term; may be repeated for credit.

ENGL 80403 - Seminar in Spenser (3)

Seminar in Spenser.

ENGL 80413 - Seminar in Shakespeare (3)

Seminar in Shakespeare. Student cannot receive credit for ENGL 55853 and ENGL 80413.

ENGL 80433 - Seminar in British Literature of the Eighteenth Century (3)

Seminar in British literature of the eighteenth century. Student cannot receive credit for ENGL 55243 and ENGL 80433.

ENGL 80443 - Seminar in British Literature of the Romantic Period (3)

Seminar in British literature of the romantic period. Variable emphasis each semester.

ENGL 80453 - Seminar in British Literature of the Victorian Period (3)

Variable emphasis each semester. (Past offerings have included The Brownings' Circle.) Student cannot receive credit for ENGL 55223 and ENGL 80453.

ENGL 80463 - Postcolonial Literature (3)

Seminar in the cultural politics of countries formerly colonized by Great Britain. Topics vary: recent offerings have focused on India, Ireland, South Africa, Kenya, and Zimbabwe. Student cannot receive credit for ENGL 55203 and 80463.

ENGL 80473 - Renaissance Bodies (3)

Advanced graduate seminar in dramatic literature of the English Renaissance with a focus on the religious, political, aesthetic, and medical history of the body.

ENGL 80503 - Seminar in American Literature before 1900 (3)

Topics vary; recent offerings have included Emerson and His Circle" and "The American Renaissance."

ENGL 80513 - Seminar in American Literature since 1900 (3)

Seminar in American literature since 1900. Student cannot receive credit for ENGL 55213 and 80513.

ENGL 80523 - Race and Gender in American Literature (3)

Examination of race and gender in American literature in relation to recent developments in fields such as women's studies, gender studies, critical race studies, Native American studies, and/or African American studies. Themes will vary by semester. Student cannot receive credit for ENGL 55763 and 80523.

ENGL 80533 - Literature of Latinx Diaspora (3)

Examination of significant works of literature in multiple genres by U.S. Latinx authors. Particular emphasis will be put on a comparative approach, exploring the literature of Puerto Rican, Cuban, Chicana/o, Mexican, Dominican, and/or Nicaraguan Americans. Texts vary by semester. Student cannot receive credit for ENGL 55533 and ENGL 80533.

ENGL 80583 - Seminar in Contemporary African-American Literature (3)

This seminar provides graduate students with the opportunity to research and present theoretical approaches to representative contemporary fiction by African-Americans. Continuities will be established between theories shaped by the Black Arts Movement of the sixties and those shaped by post-modernist thinking. Representative writers may include Alice Walker, Toni Cade Bambara, Charles Johnson, Toni Morrison and Ernest Gaines. Student cannot receive credit for ENGL 55583 and ENGL 80583.

ENGL 80603 - Seminar in Kenneth Burke (3)

A study of the rhetorical theory and critical methods of Kenneth Burke. This course will include a careful consideration of Burke's major theoretical and literary work with particular emphasis on the ways in which his rhetorical/literary theory grew out of his own literary practice and his engagement in modernist conversations about the function of art (and language, more generally) in culture.

ENGL 80613 - Women's Rhetorics (3)

This course examines the histories, theories, and practices of women's rhetorics from the classical era through the present. Students will examine primary texts of women rhetors - essays, ordinary writing such as letters and autobiographies, and speeches, to name only a few - as well as secondary sources of those texts, paying particular attention to the ways gender, race, class, religion, place, sexual orientation, and politics shape sense of audiences, methods of invention, arrangement, choices of style, form, tone, and genre. Student cannot receive credit for WRIT 55613 and ENGL 80613.

ENGL 80623 - Intersections of Literacies, Pedagogies, and Black Feminisms (3)

Prerequisites: Admission to the graduate program in English. Offering a theoretical foundation in Black feminist thought alongside current literacy and educational texts related to race, gender, and sexuality, the course centers the unique contributions of Black Feminist thought and its transformative potential for classrooms, schools, and communities. Student cannot receive credit for WRIT 55173 and ENGL 80623.

ENGL 80703 - Seminar in Rhetoric (3)

A study of selected major figures and issues in the history of rhetoric. Student cannot receive credit for WRIT 55243 and ENGL 80703.

ENGL 80713 - Seminar in Literacy (3)

Exploration of major issues in literacy history, theory, and research. Topics may vary. Student cannot receive credit for WRIT 55783 and ENGL 80713.

ENGL 80723 - Seminar in Composition (3)

A study of issues in composition research, practice, or theory. Topics may vary. Student cannot receive credit for WRIT 55793 and ENGL 80723.

ENGL 80733 - Poststructural Rhetoric (3)

Prerequisites: ENGL 60123 or 60713 or 70703. An advanced, intensive study of those rhetorical and theoretical positions that often inform contemporary scholarship in composition studies, rhetoric, literature, and cultural studies. Reading will focus on those anglophone and European theorists most often of use to and in discussion with the whole of modern rhetoric and literary theory.

ENGL 80743 - Genre Theory (3)

A study of genre theory, with emphasis on the history, methods, and major theories of genre studies in rhetorical theory and literary studies.

ENGL 80753 - Anti-Racist Pedagogies in Writing Studies and Rhetorical Education (3)

Prerequisites: Admission to the graduate program in English. Drawing from scholarship that centers Black studies, critical composition/literacy studies, decolonization, queer of color critique, and feminisms of color, students will examine theories and examples of intersecting anti-racist

pedagogies across multiple spaces in critical university settings. Student cannot receive credit for WRIT 55483 and ENGL 80753.

ENGL 80813 - Rhetorics and Poetics of 1930s America (3)

A study of the 1930s American literacy and cultural debates that led to the establishment of New Criticism as the dominant critical theory in English studies and to the birth of modern rhetorical theory.

ENGL 80823 - Social Movement Rhetorics (3)

This course prepares graduate students for research and teaching related to protest and social movement rhetorics, tracing the emergence and development of work in this area from the 1960s to the present.

ENGL 80833 - Cultural Rhetorics (3)

An investigation into the connections between rhetoric, culture, and power in order to engage theories of race, class, ethnicity, gender, sexuality, disability, etc. The course will ask students to also practice sociocultural research methods such as, but not limited to ethnography.

ENGL 90980 - Dissertation (1.00-20.00)

Dissertation. (This course is only offered as P/NC.)

ENGL 90990 - Dissertation (1.00-20.00)

Dissertation. (This course is only offered as P/NC.)

ENSC - Environmental Science

ENSC 50003 - Applied Projects Partnership Program (3)

Prerequisites: Must have C or better in at least 9 hours of approved courses in the minor or degree, plus permission of instructor and program advisor. ENSC faculty will identify opportunities for students to partner with local businesses, industry and consulting firms to solve real-world problems and create professional deliverables. Students will be matched with the positions that are available, based on observed talents and the type of experience they seek. This is a student-lead project. ENSC faculty provide oversight and guidance but will NOT manage the project or direct the team.

ENSC 50213 - Environmental Geology (3)

Prerequisite: Permission of instructor. Two hours per week of lecture, and three hours per week of laboratory work. Geologic processes, earth resources and engineering properties of crustal materials in the activities of society. (Crosslisted as ENSC/GEOL 50213)

ENSC 50233 - Urban Wildlife (3)

Prerequisites: one semester of biology and junior or higher standing. Through readings, discussions, lectures and two required Saturday field trips, students will gain an appreciation for urban wildlife habitat in its many forms by providing a foundation of knowledge regarding wildlife ecology and natural habitats and the ability to relate this knowledge to the urban environment.

ENSC 50333 - Energy Development and Wildlife Conservation (3)

Prerequisites: Three semester hours of biology. The quest for energy can cause problems for wildlife, but through effective use of Best Management Practices (BMPs), the impact of energy development and distribution on wildlife can be limited. From site selection through production to reclamation, practical means exist to promote wildlife-friendly energy development. This course will feature BMPs that allow energy development and wildlife conservation to coexist.

ENSC 50403 - Rivers in the Landscape (3)

Prerequisites: Junior Senior, or graduate standing. In this course, students analyze modern principles of river processes and forms within a geographical perspective. The course examines the fundamental mechanics of fluvial channels with an emphasis placed on both qualitative and quantitative geographic and geologic evaluation of river processes and their products. The course emphasizes natural scientific perspectives and includes linkages to ecology, engineering, natural resources, and resources management/policy.

ENSC 50433 - Sustainability in the Built Environment (3)

Prerequisites: Minimum of 60 hours of completed coursework. Sustainability in the Built Environment is a look at policies, programs, projects, and operations of communities, buildings, and homes. This course delves into the history surrounding the green building movement, practical and business cases for sustainable design and implementation, the relatively recent rise and practice of corporate sustainability and the future of sustainability in the communities and

facilities we occupy. Energy, water, waste, green purchasing, indoor air quality, and sites are topics that will be covered.

ENSC 50493 - Physical Hydrology (3)

Prerequisite: GEOL 10113 and permission of instructor. Two hours 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. (Crosslisted as ENSC/GEOL 50493)

ENSC 50503 - Wetlands Delineation and Management (3)

Prerequisites: Major field of study within the College of Science Engineering, graduate enrollment, or permission of instructor. To develop a working understanding of the wetland delineation process using the 1987 U.S. Army Corps of Engineers Wetland Delineation Manual and regional supplements. Students will be taught how to measure the three parameters required for a jurisdictional wetlands. In addition, students will learn a basic understanding of wetland ecology. At the end of the course students will be able to use the manual to assist in delineating wetlands.

ENSC 50513 - Wetlands Restoration (3)

Prerequisites: Major field of study within the College of Science and Engineering, graduate enrollment or permission of instructor. To develop a working understanding of stream and wetland riparian ecology, methods to evaluate and categorize streams and wetlands, and methods to restore, enhance and create streams and wetlands. Students will be taught the various methods of stream/wetland evaluations and categorization and will apply these methods on an actual stream and wetland. Students will evaluate and develop a working plan for stream and wetland restoration. In addition, students will visit various restoration projects in the region.

ENSC 50523 - Introduction to Geographic Information Systems (3)

Prerequisites: GEOL/ENSC 30363. Basic introduction to Geographic Information Systems using ESRI-ArcGIS. Elements of spatial data, mapping, data representation, and geodatabases. Training in use of a GIS system to infer relationships among spatial features. (Crosslisted as ENSC/GEOL 50523.)

ENSC 50551 - Anthropogenic Disturbance of Wildlife (1)

Prerequisites: Six semester hours in Biology, and permission of instructor. This is a seminar class in which students will be introduced to both the direct and indirect ways humans impact wildlife. Students will review and discuss current literature related to this topic (e.g., road ecology and wind energy). This class comprises one fifty minute seminar per week.

ENSC 50593 - Environmental Modeling (3)

Prerequisite: Permission of instructor. This course will cover physical and empirical models and their applications in areas such as hydrology, wildlife, ecology, and human health. Class consists of 2 hours lecture, and 2 hours hands-on computer modeling laboratory. (Crosslisted as ENSC/GEOL 50593)

ENSC 50613 - Chemical Analysis of Environmental Systems (3)

Prerequisite: CHEM 10113 or equivalent. This course covers analytical instrumentation and techniques used in chemical analysis of environmental systems including aquifers, streams, soils and the atmosphere.

ENSC 50693 - Natural Resources Compliance (3)

Prerequisites: Major field of study within the College of Science Engineering. This course is designed to teach the basics of natural resources compliance for students seeking a career in either environmental consulting or environmental compliance for industry. At the completion of the course, students will understand the basics of the natural resources regulatory framework, how natural resources regulations interrelate, federal versus state or local regulatory agency authority, basic permitting processes, and the fundamentals of compliance. Students will have the opportunity to apply the knowledge they gain to real-life situations throughout the class.

ENSC 50703 - Environmental Compliance (3)

Prerequisites: Major field of study within the College of Science & Engineering with 60 hours of coursework completed; or graduate enrollment in SCEE; or permission of instructor. This course is designed to teach the basics of environmental compliance for students seeking a career in either environmental consulting or environmental compliance for industry. At the completion of the course, students will understand the basics of environmental regulatory framework, how environmental

regulations interrelate, federal versus state or local regulatory agency authority, basic permitting processes, and the fundamentals of compliance auditing. Students will have the opportunity to apply the knowledge they gain to re-life situations throughout the class.

ENSC 50713 - Phase I and Phase II Environmental Site Assessment (3)

Prerequisites: Major in College of Science Engineering, with 60 earned hours or graduate enrollment in SGEE. This course is designed to teach the basics of Phase I and Phase II Environmental Site Assessments for students seeking a career in environmental consulting. At the completion of the course, students will understand the basics of performing environmental site assessments, the environmental regulatory framework, and the fundamentals of site investigation. Students will have the opportunity to apply the knowledge they gain to real-life situations throughout the class.

ENSC 50723 - Water and Wastewater Technology (3)

Prerequisites: Major in College of Science Engineering, with 60 earned hours or graduate enrollment in SGEE. This course is designed to teach the basics of water and wastewater treatment technology, including regulations, for students seeking a career in environmental consulting. At the completion of the course, students will understand the basics of water and wastewater treatment, the regulations affecting water and wastewater treatment and pretreatment programs. Students will have the opportunity to apply the knowledge they gain to real-life situations throughout the class.

ENSC 50733 - Hazardous Waste Operations and Emergency Response (3)

Prerequisites: Must be a Science Engineering major, graduate student, or have permission of instructor. This course is designed to teach the basics of worker protection for those who will work with hazardous substances during clean up operations and emergency response. The course is designed to meet the requirements of OSHA (Occupational Safety and Health Administration) regulations under 29 CFR 1910.120. At the completion of the course, students will understand the basics of hazardous materials/substances, routes of exposure, personal protective equipment, and permissible exposure limits. Students who complete the entire 40 hours of instruction will receive an occupational certification for the 40-hour initial course in accordance with 29 CFR 19101.120.

ENSC 50743 - Environmental Impact Statements (3)

Prerequisites: Major in College of Science Engineering, with 60 earned hours or graduate enrollment in SGEE. This course is designed to teach the basics of Environmental Impact Statements and the NEPA process for students seeking a career in environmental consulting. At the completion of the course, students will understand the basics of evaluating federally-funded development projects for impacts to the environment. Students will be able to evaluate if the project qualifies for a categorical exclusion, and perform environmental assessment (EA) and environmental impact state (IES). Students will have the opportunity to apply the knowledge they gain to real-life situations throughout the class.

ENSC 50763 - Groundwater Hydrology (3)

Prerequisites: GEOL 30443 and major field of study within the College of Science Engineering with 60 earned hours, or graduate enrollment, or permission of instructor. This course is designed to teach the basics of groundwater hydrogeology including hydrologic cycle, aquifers, groundwater flow, groundwater recharge, water chemistry and groundwater contamination. At the end of this course, students will be able to understand the relationship between surface water and groundwater, groundwater protection, field methods, and groundwater development. (Crosslisted as ENSC/GEOL 50763.)

ENSC 50773 - Introduction to Environmental Law (3)

Prerequisites: Major field of study within the College of Science & Engineering with 60 earned hours; or graduate enrollment. Students will be introduced to and will analyze selected federal statutes governing environmental remediation, discharge of pollution, and management of wastes, including the Comprehensive Environmental Response Compensation and Liability Act, the Resource Conservation and Recovery Act, the Clean Water Act, the Clean Air Act, the Endangered Species Act, and others, including the common law (nuisance, trespass, negligence.) Students will be introduced to the American legal system and the role of experts in lawsuits. Students will read and discuss in class statutes, case law, and related materials. (Crosslisted as ENSC/GEOL 50773.)

ENSC 50783 - Environmental Chemistry (3)

Prerequisites: CHEM 10123 and 10122 or 10125 or 20123 or permission of instructor. Three hours 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. (Crosslisted as CHEM/ENSC/GEOL 50783.)

ENSC 50793 - Environmental Sustainability (3)

Prerequisite: Major field of study within the College of Science & Engineering with 60 hours of coursework completed; or graduate enrollment in SGEE, or permission of instructor. Includes global populations, resource consumption (water, waste, energy pollution), environmental regulations, environmental management systems, and an introduction to ISO14001. This course also introduces the concepts of return on investment (ROI) and building a financial case for sustainability.

ENSC 50863 - Spatial Analysis (3)

Prerequisites: MATH 10043 or equivalent, ENSC/GEOL 30363, and ENSC/GEOL 50523, or permission of instructor. Further development of GIS skills to include 3D data modeling, image analysis using Remote Sensing data, advanced GPS mapping, geoprocessing to infer relationships between spatial features, spatial statistics, model building and good cartographic design. (Crosslisted as ENSC/GEOL 50863.)

ENSC 50873 - Environmental Remote Sensing (3)

Prerequisites: Seniors and graduate students who have taken any of the following courses: GEOL(ENSC) 30363, GEOL 50731, 50523, 50863, 50883, 50713 or permission of instructor. This course introduces students to fundamental principles and concepts of remote sensing and explores the applications of remote sensing datasets and techniques in geological and environmental sciences. Hands-on exercises on the applications of remote sensing techniques in geological and environmental sciences are key components of the course. The hands-on exercises are mainly based on data from local or international case studies or collected by students in the field (e.g. using Unmanned Aerial Systems (UAS)). Digital image processing techniques/software including ENVI as well as Synthetic Aperture Radar (SAR) processing software such as SNAP will be used for data analysis and interpretation. Crosslisted as GEOL/ENSC 50873.

ENSC 50883 - Applied GIS (3)

Prerequisites: ENSC/GEOL 50523 and ENSC/GEOL 50863, or permission of instructor. Independent work in specially designed projects not covered by regular course offerings for students to continue to advance their basic GIS skills. The student is required to do independent research on a GIS problem, submit a paper with associated maps and give an oral presentation of the findings. A GIS faculty supervisor will be appointed for each research problem. (Crosslisted as ENSC/GEOL 50883.)

ENSC 50963 - GIS Internship (3)

Prerequisites: 2.75 GPA in major, completion of at least 6 hours of approved GIS courses and permission of instructor. Practical experience working in the GIS field. Must include a minimum of 260 work hours in approved practical experience situation with an organization or company approved by instructor. A weekly work journal is required for this course. This course is only offered on a P/NC basis. (Crosslisted as ENSC/GEOL 50963.)

ENSC 60001 - Environmental Presentations (1)

The goal of this course is to acquaint the student with the organization, preparation and effective delivery of scientific seminars. Full-time students should register for this course during their second semester. Part-time students should register for this course with permission from the graduate advisor.

ENSC 60011 - Literacy of Science Review (1)

Prerequisites: Candidacy for a Masters Degree in Environmental Science. The goal of this course is to acquaint the student with the demands of real-world projects and deadlines. The student will be given a topic within the realm of their environmental education, and will be tasked with writing a 2000-word research paper within 48-hours on the topic.

ENSC 60021 - Oral Examination (1)

Prerequisites: Candidacy for a Masters Degree in Environmental Science and completion of ENSC 60011 and ENSC 60203. The oral exam is the capstone of the Masters program and must be taken by all students during the final full semester. Oral exams test the student's knowledge

in three areas: 1) coursework, 2) selected readings, and 3) general environmental issues and global concerns.

ENSC 60173 - Mammalogy (3)

Prerequisites: Six semester hours in Biology. Two hours of lecture and two hours of laboratory per week. This course introduces graduate students to mammals. Lectures will examine the major topics of mammalian biology including the evolutionary history, classification, adaptations, ecology, and natural history of mammals. Field techniques for the study of mammalian biodiversity and abundance will also be covered in this course. Field trips will be required. (Crosslisted as BIOL/ENSC 60173.)

ENSC 60203 - Environmental Issues (3)

Prerequisite: Graduate standing or permission of instructor. A graduate-level seminar on environmental issues. The framing of issues and their uses in shaping policy are introduced. About twelve issues are introduced in assigned readings. Each student creates a summary document of the issue, derived from the readings and personal research. Students are expected to arrive at class prepared for questions and discussion. Each student is also expected to summarize an issue using a poster or web portfolio.

ENSC 60313 - Sustainable Development in Costa Rica (3)

This program examines how Costa Rica has managed their natural resources to conserve biodiversity, including ecosystem service payments, the social value placed on conservation, the educational system's approach to conservation, and the political history that has allowed Costa Rica to emerge as the only stable political regime and economy in Central America and the second-most famous ecotourism destination in the world. Their emerging economy creates unique challenges to balance development with conservation and creates a unique opportunity for students to observe sustainable development first-hand, engage in critical and reflective thinking about resource consumption, and evaluate the social implications of sustainability.

ENSC 60353 - Wildlife Ecology and Management (3)

Prerequisites: Six semester hours in Biology. Two hours of lecture and a three-hour laboratory each week. This discussion-oriented course introduces graduate students to the general principles of wildlife ecology and how those principles can be applied to wildlife management and conservation. The objectives of this course are 1) to provide an introduction to the major concepts of Wildlife Ecology and Management and 2) to apply the scientific method to ecological problems. Laboratory exercises are required. (Crosslisted as BIOL/ENSC 60353)

ENSC 60503 - Environmental Methods and Statistics (3)

This course is a laboratory and field-based course that presents essential general science and specific environmental methods, techniques, and theory. Students are exposed to the basic tools of environmental science - observation and notation, data gathering, using statistics, sampling, lab and field techniques, surveying, and safety. Specific environmental methodologies relating to soil, water, and ecological systems are explained. The course presents a wide cross-disciplinary range of techniques and information.

ENSC 60553 - Zoo Animal Enrichment (3)

Prerequisites: Graduate in Biology, Environmental Sciences, Education or Studio Arts programs, or permission from the faculty. This team-taught course between Environmental Science and Studio Art. In this course students will explore the ecology and behavior of wild animals to provide insights into the types of stimuli they naturally encounter. These insights will then be used to develop and build objects and structures that will engage and enrich the lives of animals at the Fort Worth Zoo. Students will work in teams to study a specific species currently residing at the zoo and create objects and structures that will enhance their lives in captivity.

ENSC 60603 - South African Biodiversity and Human Development (3)

This course aims to give students an immersive experience into South Africa's rapidly developing human population while the country simultaneously strives to preserve and conserve its natural heritage and biodiversity for future generations. The course will address the geopolitical and socio-economic aspects of South Africa's human development by visiting Soweto, the Apartheid museum, Voortrekker Monument and Isipho HIV/AIDS project. To experience firsthand wildlife preservation and conservation in practice, students will spend time in the Amakhala Game Reserve, Addo Elephant National Park, local nature

reserves and villages. Here students will learn about current local, regional and international education programs, wildlife protection, active and passive management, eco-tourism and ongoing scientific research.

ENSC 70003 - Environmental Internship (3)

Students must spend at least 135 hours in approved practical work experience with an organization or company approved by the program director. (This course is only offered P/NC.)

ENSC 70010 - Research in Sustainability Science (1.00-6.00)

Prerequisites: In graduate program at TCU. Field and laboratory problems in sustainability science for graduate students. Fifty clock hours of laboratory and field work for each semester hour credit. 1-6 semester hours.

ENSC 70030 - Research in Applied Wildlife Ecology (1.00-6.00)

Prerequisites: In graduate program at TCU. Graduate students can gain experience conducting field and lab work, analyzing data and processing samples. This represents an opportunity for students to get involved with and contribute to current research in wildlife ecology. As part of this lab group, there will be lab meetings in which students will present and discuss emerging issues in wildlife ecology (participation is required). 1-6 semester hours.

ENSC 70040 - Water Resources Research (1.00-6.00)

Prerequisites: In graduate program at TCU. Field, laboratory, and computational modeling problems in water resources for graduate students. Fifty clock hours of laboratory, computational, and fieldwork for each semester hour credit. 1-6 semester hours.

ENSC 70351 - Publication Writing (1)

Prerequisites: Enrolled in the Environmental Sciences or Biology graduate program. One hours seminar per week for 15 weeks. Graduate students will learn how to produce a scientific research publication based on their own research. This seminar class will include an introduction to using Web of Science, available library resources, selecting the appropriate journal, manuscript structure and formatting, and using reference software (such as Endnote). Such skills will aid thesis development and potentially lead to the production of a submittable manuscript.

ENSC 70970 - Special Problems (1.00-20.00)

Field or laboratory problems for graduate students in various aspects of environmental science. Fifty clock hours of laboratory, field or library work for each semester hour of credit.

ENSC 70980 - Thesis (1.00-3.00)

A minimum of 3 hours of ENSC 70980 Thesis is required.

ENSC 70990 - Thesis (1.00-3.00)

Prerequisite: ENSC 70980 and admission to candidacy. A minimum of 3 hours of ENSC 70990 Thesis is required.

ENTR - Entrepreneurship

ENTR 60230 - Regulatory Environment for Entrepreneurs and Managers (1.5)

1.5 credit hours. The primary focus of this course will be to examine the laws, policies, regulations, and norms that influence decision making for entrepreneurs and managers. Specifically, the course will examine the legal environments of new and established businesses including contract law, intellectual property law, and employment discrimination law.

ENTR 65023 - Regulatory Environment for Entrepreneurs and Executives (1.5)

Prerequisite: Must be an EMBA candidate. The primary focus of this course will be to examine the laws, policies, regulations, and norms that influence decision making for executives. Specifically, the course will examine business, contract law, agency law, intellectual property law and employment discrimination law. Additionally, the course highlights aspects of the international legal environment of business.

ENTR 70353 - Private Equity (3)

Prerequisites: Open to MBA and MAC students; this elective course provides the theoretical background and practical application of private equity in the United States and the world. The principle focus of the course will be early stage venture capital. However, other elements of private equity such as leveraged buyouts and corporate venturing will also be reviewed. To ensure that a realistic perspective of private equity

occurs in the class, cases and projects provided by active private equity professionals will be employed to illustrate material.

ENTR 70513 - Venture Ideas (3)

The course provides an in-depth overview of the challenges involved in identifying and systematically evaluating opportunities for creating new ventures across a wide range of contexts, including startups, social enterprises, and large, established corporations. As such, the focus of the course is centered on what should be done before writing a business plan and embarking on the development and launch of a new venture.

ENTR 70523 - New Venture Planning (3)

The course focuses on providing practical experience associated with the business start-up process. Specifically, students working in teams will take an identified business opportunity and develop a proposed new business centered on a product or service. Additionally, discussions centered on the challenges and opportunities associated with new venture creation will be conducted. The overarching goal of the course is to provide students with an understanding of the entrepreneurial process, and the implications of entrepreneurial management for business leaders.

ENTR 70533 - Funding Entrepreneurial Ventures (3)

The course focuses on helping students develop the skills needed to successfully execute a capital raise or financing for an early-stage venture. Major sources of funding for new ventures are reviewed and evaluated, including 'bootstrap' financing, crowdfunding, equity finding (angel investment and venture capital), debt financing, grant funding and digital currencies. Pro forma financial models will be taught as a means to communicate a comprehensive understanding of a business opportunity to capital providers.

ENTR 70543 - Corporate Venturing (3)

The course focuses on seeking innovative uses, markets, or owners of the organization's existing products, services, and technologies. It draws the creativity of the organization's personnel to new business possibilities that go beyond the current business model of the organization. It engages the entrepreneurial spirit in spawning a new vision from within the organization. By imparting proven, useful, and effective techniques for managing innovation and entrepreneurship within corporations, this course will position students to participate in the economic renewal of their companies, and potentially, their cities, states, and nations. Leaders in this course will further learn to recognize organizational challenges; create innovative, value oriented solutions; and sell those solutions to management.

ENTR 75980 - Entrepreneurship (1.5)

1.5 credit hours. Prerequisite: Must be an EMBA candidate. This course focuses on the pursuit of opportunity, which considers the difference between an idea and an opportunity. It addresses the skills and know-how required to recognize, assess and exploit an opportunity. Students will apply a strategic tool to determine the difference between an idea and an opportunity, conduct an opportunity assessment, and present their assessment to a team of outside judges. This course will utilize a range of techniques, methods and approaches to address the learning styles of everyone in the class. In the process, students will improve their analytical capabilities, strengthen their ability to execute by understanding and applying elements in the entrepreneurial process, and enhance their skill in pitching their concepts.

ENTR 75990 - Innovation (1.5)

1.5 credit hours. Prerequisites: Must be an EMBA candidate. Creativity and innovation are key drivers for economic activity and wealth generation, as well as for individual and community well-being. Entrepreneurs in growing businesses, large firms, the social sector and government are upsetting the status quo, altering accepted ways of doing things, transforming industries and finding meaning for themselves and those with whom they work. This course focuses on two key themes. One is creativity and innovation and the other is the pursuit of opportunity, which considers the skills and know-how required to exploit opportunity and create social and economic value. Students will learn to recognize their own creative talents, apply creative problem-solving techniques to tasks and challenges, (3) recognize and remove blocks to innovation, and (4) understand and apply the elements in the entrepreneurial process.

ENTR 70630 - Data Analytics Capstone for Entrepreneurial Decision Making (3)

Prerequisites: Admitted to Master of Science in Business Analytics program. This course is designed to prepare students to recognize

challenges faced by organizations and to create innovative, value-oriented solutions using analytical methods. Students engage with business professional to define a business issue, identify the necessary data and resources needed to provide solutions, and ultimately communicate those solutions to management.

ENTR 70970 - Special Problems in Entrepreneurship (1.00-20.00)

Special Problems in Entrepreneurship.

FINA - Finance

FINA 60003 - Economic Environment of Business (3)

A contemporary, real-world course focusing on the economic environment within which today's businesses operate taught from the perspective of the practicing manager. Content is both national and international in flavor. Highlights include study of the general economy, market structure and public policy, economic analysis of industries and business cycles, and economics of the firm. International comparative advantage is stressed. The course is taught through the use of materials, tools, and databases readily available to the manager.

FINA 60010 - Financial Management I (1.5)

1.5 credit hours. Prerequisites: ACCT 60010, and must be an MBA or MAc student. Financial Management I is the core MBA course in finance. It is the first part of a two-course introduction to financial decision making. The fundamental question in finance is how to determine value. To answer this question, in this course we will focus on how financial managers identify projects that create value to the firm (investment decisions.) The course topics will include cash flow valuation, bond and stock valuation, capital budgeting and project evaluation, and a brief introduction to the concepts of cost of capital.

FINA 60011 - Finance Fundamentals (1)

The course is designed to help bridge the gap between an undergraduate experience in Finance and a graduate level course. As such, there is less emphasis on memorization of terminology and much greater emphasis on critical thinking, analytics, and decision-making. This course will review some of the basic concepts, but a major emphasis will be placed on identifying and describing practical applications of key concepts by means of case studies and projects, with emphasis on the ambiguities and nuances occurring in applying theory to empirical projects. This is also supplemented by developing students' critical thinking skills through in-depth analysis of financial decisions from a managerial perspective. This course will help students better understand the key issues that managers face when they make investment decisions, including technical issues, such as knowledge of cash flows, time-value of money, valuation principles, but also big picture issues, examining what the sources of value creation are, how to deal with managerial biases and estimation uncertainty, and how investment decisions must fit with the strategic vision of the firm.

FINA 60013 - Management of Financial Resources (3)

Prerequisite: ACCT 60010, or concurrent enrollment in ACCT 60010. Cannot receive credit for FINA 60013 if credit has been received for FINA 60010, FINA 60011 or FINA 70010. A study of the acquisition and management of the financial resources of the firm. The emphasis is on developing and understanding decision making concepts related to such topics as valuation, cost of capital, capital budgeting, dividend policy, debt policy, and corporate control. The interaction between investment and financing decisions in the marketplace is emphasized in the context of risk-return considerations, and the obligation of management to security holders is considered. Where appropriate, the global environment of decisions is stressed.

FINA 60020 - Managerial Economics (1.5)

1.5 credit hours. Price and output determination in free markets is covered first. Then the relationship between the firm's production function and its cost structure is described. Costs and industry market structure and its importance to pricing strategies are discussed in detail. Public policy, such as anti-trust legislation and government price supports that affect firm/industry behavior are covered throughout the course. Actual business examples will be used to illustrate application of theory.

FINA 60110 - Finance and Analytics (1.5)

Prerequisites: Admitted to Master of Science in Business Analytics program. This course examines a range of finance topics with an emphasis on critical thinking, data driven decision-making, and complex analytics and modeling.

FINA 65000 - Economic Environment of Business (1.5)

1.5 credit hours. Prerequisite: Must be an EMBA candidate. A contemporary, real-world course focusing on the global economic environment within which today's businesses operate, taught from the perspective of the practicing manager. Content is both national and international in flavor. Highlights include study of the general economy, monetary/fiscal policy, business cycles, exchange rates, and economic indicators. The impact of domestic and international forces on business strategy is stressed. The course is taught through the use of materials, tools, and databases readily available to the manager.

FINA 65003 - Economic Environment of Business (3)

A contemporary, real-world course focusing on the economic environment within which today's businesses operate taught from the perspective of the practicing manager. Content is both national and international in flavor. Highlights include study of the general economy, market structure and public policy, economic analysis of industries and business cycles, and economics of the firm. International comparative advantage is stressed. The course is taught through the use of materials, tools, and databases readily available to the manager.

FINA 65010 - Managerial Economics for Executive Decision-Making (1.5)

1.5 Credit Hours. Prerequisite: Must be an EMBA candidate. This is an applied course intended to prepare executives to understand microeconomic concepts, interpret economic data, and apply these tools in their working environment. In each section, fundamentals of economic theory will be introduced and then applied to equip executives to make strategic business decisions in a dynamic business environment.

FINA 65013 - Management of Financial Resources (3)

3.0 credit hours. Prerequisite: ACCT 65013, and must be an EMBA candidate. A study of the acquisition and management of the financial resources of the firm. The emphasis is on developing and understanding decision making concepts related to such topics as valuation, cost of capital, capital budgeting, dividend policy, hedging financial exposure, and corporate control. The interaction between investment and financing decisions in the marketplace is emphasized in the context of risk-return considerations, and the obligation of management to security holders is considered. Where appropriate, the global environment of decisions is stressed.

FINA 70010 - Financial Management II (1.5)

1.5 credit hours. Prerequisite: FINA 60010 or student must have ACCL-MBA, ACCP-MBA, or ACCE-MBA degree plan. Financial Management II is the second part of a two-course introduction to financial decision making. The fundamental question in finance is how to determine value. To answer this question, in this course will focus on how managers interact with capital markets in order to fund firm investments (financing decision.) The course topics will include risk and return in capital markets, long-term financial decisions and the capital structure of the firm, dividend policy, and will examine in detail the concept of cost of capital.

FINA 70100 - The Macroeconomic Environment of Business (1.5)

1.5 credit hour. Prerequisites: FINA 60020 or equivalent. A contemporary, real-world course focusing on the global economic environment within which today's businesses operate, taught from the perspective of the practicing manager. Content is both national and international in flavor. Highlights include study of the general economy, monetary/fiscal policy, business cycles, exchange rates, and economic indicators. The impact of domestic and international forces on business strategy is stressed. The course is taught through the use of materials, tools, and databases readily available to the manager.

FINA 70183 - Educational Investment Fund (3)

Prerequisite: FINA 70010 or 60013. By application. Participation in the operation of the Educational Investment Fund student managed investment portfolio. Students participating in the Educational Investment Fund are strongly encouraged to take six (6) additional hours of finance electives beyond the program requirements (with possible exception made in the case of extensive finance background).

FINA 70193 - Educational Investment Fund (3)

Prerequisite: FINA 70183. Participation in the operation of the Educational Investment Fund student managed investment portfolio. Students participating in the Educational Investment Fund are strongly encouraged to take six (6) additional hours of finance electives beyond

the program requirements (with possible exception made in the case of extensive finance background).

FINA 70420 - Options and Futures Markets (1.5)

1.5 credit hours. Prerequisite: FINA 70010 or 60013. Must be a full-time second-year MBA student or equivalent. Introduction to derivatives - financial contracts that derive" value from other instruments or prices. An in-depth study of the valuation of derivatives. Valuation techniques include methods such as binomials and Black-Scholes models."

FINA 70470 - Real Estate Finance and Investments (1.5)

1.5 credit hours. Prerequisite: FINA 70010 or 60013. An examination of mortgage markets and instruments, including an introduction to basic real estate law, mortgage calculations, loan underwriting, primary and secondary mortgage markets, and securitization.

FINA 70513 - Security Analysis (3)

Prerequisite: FINA 70010 or 60013. Theory of security selection focusing on its economic, financial and accounting aspects. Some attention directed to the role of technical analysis as an adjunct to the more traditional fundamentalist approach. Critical review of significant investment literature is included along with consideration of the Chartered Financial Analyst C.F.A. program and its professional objectives.

FINA 70520 - Risk Management and Financial Engineering (1.5)

1.5 credit hours. Prerequisite: FINA 70420. Study of current usage of derivative instruments in financial engineering. Financial engineering is the science of managing financial risk exposure through derivatives, as well as the construction of new financial products, such as SWAPS. Topics include corporate risk management, hedge fund strategies, and operation of derivative markets.

FINA 70523 - Financial Modeling (3.0)

Prerequisites: FINA 70010 or 60013 or equivalent. The emphasis of the course is on developing skills for financial modeling. After completion of this course, students will acquire the tools needed to build financial models, and design the analysis to create insights from the models.

FINA 70533 - Portfolio Management (3)

Prerequisite: FINA 70010 or 60013. A 'state-of-the-art' examination of the theory and practice of portfolio management. Current literature in leading journals introduces topics such as contemporary techniques of risk-return management, setting portfolio objectives and measuring performance and portfolio selection and revision. Consideration is given to the special problems encountered in management of institutional portfolios.

FINA 70543 - Advanced Financial Management (3)

Prerequisite: FINA 70010 or 60013. Applications of theory of corporate finance to real-world problems through case studies. 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, corporate restructuring, and risk management. 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.

FINA 70563 - International Finance (3)

Prerequisite: FINA 70010 or 60013. Financial management of the firm in an international context. The basis of international trade, the management of currency and interest rate risks, international investment decisions, international money and capital markets, financial policy decisions in an international setting. Development of theory via lectures and applications via case analyses.

FINA 70570 - Real Estate Finance and Investments II (1.5)

1.5 credit hours. Prerequisites; FINA 70470. A study of the analytical tools and decision-making processes necessary to maximize returns from investment in commercial, industrial and residential income producing real estate. Investment analysis, optimal financial management and portfolio selection of real estate under institutional constraints and in the complex tax environment are considered.

FINA 70573 - Real Estate Portfolios (3)

Prerequisite: FINA 70010 or 60013 or equivalent. Emphasis will be on real estate investing, particularly as it pertains to real estate portfolios such as REITs. Performance, risk and diversification, including property type and geographic diversity will be studied. Securitization of assets and other methods of financing will be considered.

FINA 70583 - Topics in Applied Financial Analysis I (3)

Prerequisites: FINA 70010 or FINA 60013 or equivalent. This course provides a comprehensive and integrated examination of fundamental topics related to financial analysis, using subject matter from the Candidate Body of Knowledge developed by the CFA Institute for the Chartered Financial Analyst (CFA) Level I program. Specific topics covered include ethics, economics, financial statement analysis, corporate finance, quantitative methods, portfolio management, equity analysis, fixed income analysis, and derivatives.

FINA 70593 - Topics in Applied Financial Analysis II (3)

Prerequisites: FINA 70583 or passing CFA Level I exam. This course provides a comprehensive integrated examination of advanced topics related to financial analysis, using subject matter from the Candidate Body of Knowledge developed by the CFA Institute for the Chartered Financial Analyst (CFA) Level II program. Specific topics covered include advanced applications in ethics, economics, financial statement analysis, corporate finance, quantitative methods, portfolio management, equity analysis, fixed income analysis, and derivatives.

FINA 70610 - Energy Macroeconomics (1.5)

1.5 credit hours. This course focuses on the fundamentals of global supply and demand for primary fuels - oil, coal, natural gas, hydroelectricity, nuclear and alternatives. The electric power generation industry and the transportation fuel industry is examined to determine the impact of newly discovered natural gas resources in the United States. The case for a long term US national energy policy is studied in detail. Finally, the impact of technology on improved energy efficiency and new energy supply is discussed.

FINA 70620 - Energy Corporate Finance (1.5)

1.5 credit hours. Prerequisites: ACCT 60010 and either FINA 60013 or both FINA 60010 and 70010; or student must have ACCL-MBA, ACCP-MBA or ACCE-MBA degree plan. This course focuses on corporate finance issues affecting the energy industry. The material covered includes a review of macroeconomic view of energy supply, demand price and government policy for all forms of primary energy: oil, gas, coal, nuclear, hydroelectric, wind and other renewables. Capital structures are analyzed in the EP, oil service, mid-stream and power sectors. Emphasis is placed on reserve based accounting and borrowing base determination in the oil and gas sector. Other topics covered include energy startups, IPO's, mergers, acquisitions and divestitures.

FINA 70970 - Special Problems in Finance (1.00-20.00)

Special Problems in Finance.

FINA 75543 - Advanced Financial Management (3)

3.0 credit hours. Prerequisite: FINA 65013, and must be an EMBA candidate. Applications of theory of corporate finance to real-world problems through case studies. 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, corporate restructuring, and risk management. 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.

FINA 75970 - Special Problems in Finance (1.00-20.00)

Special Problems in Finance. Prerequisite: Must be an EMBA candidate.

FREN - French

FREN 50033 - The Teaching of Modern Foreign Languages (3)

Prerequisite: Junior standing, and FREN 30073 with a grade of C- or better, 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.

FTDM-Film-Television-Digital-Media

FTDM 50400 - Advanced Studies in Radio, Television, and Film (3.00-6.00)

Prerequisites: Senior or graduate standing. Seminar in radio, television, and film. 3-6 semester hours; maximum 3 semester hours per semester.

FTDM 50970 - Special Problems in Film, Television and Digital Media (1.00-6.00)

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)

GEOG - Geography**GEOG 50970 - Special Studies in Geography (1.00-20.00)**

Supervised reading, research, and preparation of a substantial paper focused on a specific regional analysis or topical subdiscipline of geography. Regional characteristics investigated may include economic, political, historical, and cultural components as well as topography, climate, and natural resources. Examples of topics include advanced studies in Urban Geography, Cultural Geography, Geopolitics, and Historical Geography.

GEOG 80900 - Seminar: Historical Geography of Latin America (1.00-3.00)

This seminar will investigate land and life in the Latin American Realm using geographical and historical methods. Topics may include, but are not limited to: Indigenous populations, human/environment interaction, agriculture, settlement morphology, diffusion, religion, cultural landscapes, and commerce and trade.

GEOL - Geology**GEOL 50213 - Environmental Geology (3)**

Prerequisite: Permission of instructor. Two hours per week of lecture, and three hours per week of laboratory work. Geologic processes, earth resources and engineering properties of crustal materials in the activities of society. (Crosslisted as ENSC/GEOL 50213)

GEOL 50233 - Optical Mineralogy and Petrography (3)

Prerequisite: Permission of instructor. Two hours 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 non-opaque, rock-forming minerals using immersion media and thin section techniques. Intensive use of the microscope required.

GEOL 50251 - Scanning Electron Microscopy (1)

Prerequisite: Permission of instructor. Use of the S.E.M. in geological applications.

GEOL 50341 - Interpreting Seismic Data (1)

Prerequisite: GEOL 30243. Three hours laboratory per week for five weeks. A practicum in interpreting seismic data. Prerequisites: GEOL 50331 or equivalent.

GEOL 50413 - Global Tectonics and Basin Analysis (3)

Prerequisite: Permission of instructor. Three hours lecture per week. Explores the relationship between plate motion and the evolution of sedimentary basins.

GEOL 50423 - Petroleum Geology (3)

Prerequisite: Permission of instructor. Origin, migration and entrapment of hydrocarbons, exploration and production techniques used in the petroleum industry.

GEOL 50443 - Natural Hazards and Disasters (3)

Prerequisites: GEOL 10113 or permission of the instructor. The course is designed to give an overview of the various types of natural hazards/disasters including earthquakes, tsunamis, volcanoes, floods, landslides, hurricanes, tornadoes, and wildfires; the fundamental Earth surface and subsurface processes that trigger natural disasters, and the possible influences of human activity in exacerbating their effects.

GEOL 50493 - Physical Hydrology (3)

Prerequisite: GEOL 10113 and permission of instructor. Two hours 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. (Crosslisted as ENSC/GEOL 50493)

GEOL 50523 - Introduction to Geographic Information Systems (3)

Prerequisites: GEOL/ENSC 30363. Basic introduction to Geographic Information Systems using ESRI-ArcGIS. Elements of spatial data, mapping, data representation, and geodatabases. Training in use of a

GIS system to infer relationships among spatial features. (Crosslisted as ENSC/GEOL 50523.)

GEOL 50543 - Sedimentary Environments and Facies (3)

Prerequisite: Permission of instructor. Three hours lecture per week. Facies analysis and facies models applied to the problem of interpreting stratigraphic sequences and reconstructing paleogeography.

GEOL 50553 - Integrating and Interpreting Subsurface Geological Data (3)

Prerequisites: GEOL 50331 and 50361, or permission of instructor. A workstation-based practicum on managing and integrating geologic data. Students will become familiar with one or more widely-used software packages for handling multiple data sets used in oil and gas exploration and field development.

GEOL 50563 - Energy and Natural Resources (3)

Prerequisite: GEOL 10113 or equivalent. A broad overview of the natural resources utilized for energy, and the geologic, engineering and business sides of the energy industry. The course will acquaint students with all the steps in the production of oil and gas from developing a prospect to delivering a product, including how geologists decide where to drill, the study of drilling and completion operations, the technology required to produce oil and gas, and carbon sequestration. Students will also be acquainted with the natural resources and environmental issues associated with the generation of electricity, including coal, geothermal, biomass, uranium, tidal, hydroelectricity, and the rare earth elements required for renewable energy.

GEOL 50573 - Geology of Texas (3)

Prerequisites: GEOL 30243. This course is an overview of the stratigraphy and petroleum geology of Texas and the adjacent Gulf of Mexico. The course will focus on the relationship between plate tectonics, eustacy, basin formation, and stratigraphy, and how the interplay between them generated some of the largest accumulations of hydrocarbons on the planet. The course will also use Texas examples to discuss concepts of petroleum geology.

GEOL 50593 - Environmental Modeling (3)

Prerequisite: Permission of instructor. This course will cover physical and empirical models and their applications in areas such as hydrology, wildlife, ecology, and human health. Class consists of 2 hours lecture, and 2 hours hands-on computer modeling laboratory. (Crosslisted as ENSC/GEOL 50593)

GEOL 50603 - Introduction to Geochemistry (3)

Prerequisite: CHEM 10114 and 10124 or permission of instructor. Three hours 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.

GEOL 50613 - Igneous and Metamorphic Petrology (3)

Prerequisite: GEOL 50233, or permission of instructor. Two hours lecture and one three hour laboratory period per week. Petrogenesis of igneous and metamorphic rocks based on field, petrographic, chemical and isotopic data. Inferences on the evolution and dynamics of the crust and mantle. Involves use of microscope.

GEOL 50623 - Volcanology (3)

Prerequisite: GEOL 50233, or permission of instructor. Two hours 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.

GEOL 50713 - Environmental Geology (3)

Prerequisite: Permission of instructor. Two hours per week of lecture, and three hours per week of laboratory work. Geologic processes, earth resources and engineering properties of crustal materials in the activities of society.

GEOL 50731 - Remote Sensing Technology (1)

Prerequisite: Permission of instructor. Three hours 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.

GEOL 50741 - Image Processing (1)

Prerequisite: Permission of instructor. Three hours 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.

GEOL 50751 - Image Interpretation (1)

Prerequisite: Permission of instructor. Three hours lecture per week for five weeks. Geologic and resource mapping and environmental monitoring using satellite images.

GEOL 50763 - Groundwater Hydrology (3)

Prerequisites: GEOL 30443 and major field of study within the College of Science Engineering with 60 earned hours, or graduate enrollment, or permission of instructor. This course is designed to teach the basics of groundwater hydrogeology including hydrologic cycle, aquifers, groundwater flow, groundwater recharge, water chemistry and groundwater contamination. At the end of this course, students will be able to understand the relationship between surface water and groundwater, groundwater protection, field methods, and groundwater development. (Crosslisted as ENSC/GEOL 50763.)

GEOL 50773 - Introduction to Environmental Law (3)

Prerequisites: Major field of study within the College of Science & Engineering with 60 earned hours; or graduate enrollment. Students will be introduced to and will analyze selected federal statutes governing environmental remediation, discharge of pollution, and management of wastes, including the Comprehensive Environmental Response Compensation and Liability Act, the Resource Conservation and Recovery Act, the Clean Water Act, the Clean Air Act, the Endangered Species Act, and others, including the common law (nuisance, trespass, negligence.) Students will be introduced to the American legal system and the role of experts in lawsuits. Students will read and discuss in class statutes, case law, and related materials. (Crosslisted as ENSC/GEOL 50773.)

GEOL 50783 - Environmental Chemistry (3)

Prerequisites: CHEM 10123 and 10122 or 10125 or 20123 or permission of instructor. Three hours 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. (Crosslisted as CHEM/ENSC/GEOL 50783.)

GEOL 50813 - Meteorites, Asteroids, and Planets (3)

Prerequisite: GEOL 30213 or PHYS 30493, or permission of instructor. Three hours of lectures per week. An interdisciplinary course exploring the history and formation of the Solar System from the Big Bang through the formation and evolution of the planets. (Crosslisted as GEOL/PHYS 50813.)

GEOL 50863 - Spatial Analysis (3)

Prerequisites: MATH 10043 or equivalent, ENSC/GEOL 30363, and ENSC/GEOL 50523, or permission of instructor. Further development of GIS skills to include 3D data modeling, image analysis using Remote Sensing data, advanced GPS mapping, geoprocessing to infer relationships between spatial features, spatial statistics, model building and good cartographic design. (Crosslisted as ENSC/GEOL 50863.)

GEOL 50873 - Environmental Remote Sensing (3)

Prerequisites: Seniors and graduate students who have taken any of the following courses: GEOL(ENSC) 30363, GEOL 50731, 50523, 50863, 50883, 50713 or permission of instructor. This course introduces students to fundamental principles and concepts of remote sensing and explores the applications of remote sensing datasets and techniques in geological and environmental sciences. Hands-on exercises on the applications of remote sensing techniques in geological and environmental sciences are key components of the course. The hands-on exercises are mainly based on data from local or international case studies or collected by students in the field (e.g. using Unmanned Aerial Systems (UAS)). Digital image processing techniques/software including ENVI as well as Synthetic Aperture Radar (SAR) processing software such as SNAP will be used for data analysis and interpretation. Crosslisted as GEOL/ENSC 50873.

GEOL 50883 - Applied GIS (3)

Prerequisites: ENSC/GEOL 50523 and ENSC/GEOL 50863, or permission of instructor. Independent work in specially designed projects not covered by regular course offerings for students to continue to advance their basic GIS skills. The student is required to do independent research on a GIS problem, submit a paper with associated maps and give an oral presentation of the findings. A GIS faculty supervisor will be appointed for each research problem. (Crosslisted as ENSC/GEOL 50883.)

GEOL 50901 - Introduction to Computer Applications in Geology (1)

Prerequisites: Graduate or Junior/Senior standing in Geology or Environmental Sciences and permission of instructor. Three hours lecture per week for five weeks. The use of microcomputers in earth sciences.

GEOL 50912 - Geological Statistics (2)

Prerequisite: GEOL 50901. Three hours 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.

GEOL 50922 - Digital Cartography (2)

Prerequisite: GEOL 50901. Three hours lecture per week for ten weeks. Selecting and using mapping and drafting software.

GEOL 50963 - GIS Internship (3)

Prerequisites: 2.75 GPA in major, completion of at least 6 hours of approved GIS courses and permission of instructor. Practical experience working in the GIS field. Must include a minimum of 260 work hours in approved practical experience situation with an organization or company approved by instructor. A weekly work journal is required for this course. This course is only offered on a P/NC basis. (Crosslisted as ENSC/GEOL 50963.)

GEOL 60113 - Structural Geomechanics (3)

Prerequisites: GEOL 30423. Designed for science majors who wish to gain in-depth knowledge of advanced structural geology processes by understanding the response of rocks to stress. The course focuses on geomechanical principles such as rock failure/behavior, rock strength, 3D stress and the stress polygon, in situ stress, role of pore pressure, stress resolution on planes and reactivation of preexisting mechanical discontinuities. Particular emphasis is given to the determination of rock strength using micro mechanical tools and derivation of various petrophysical constraints from geophysical well logs.

GEOL 60213 - Environmental Analysis (3)

Two hours of lecture and one laboratory period per week. Techniques of analysis using X-ray, atomic absorption, differential thermal, infrared absorption, chromatography and liquid scintillation.

GEOL 60331 - Basic Seismics (1)

Prerequisite: Permission of instructor. Three hours of lecture per week for five weeks. An introduction to techniques of gathering, processing and interpreting seismic data.

GEOL 60351 - Seismic Stratigraphy (1)

Prerequisites: GEOL 60331. 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.

GEOL 60361 - Basic Well Log Interpretation (1)

Prerequisite: Permission of instructor. 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.

GEOL 60393 - Soils in the Environment (3)

Prerequisites: CHEM 10113 and 10125. Two hours lecture and one three hour 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.

GEOL 60413 - Advanced Map Interpretation (3)

Prerequisite: Permission of instructor. Three hours lecture per week. Techniques used in the analysis of geological structures.

GEOL 60423 - Overview of Petroleum Engineering (3)

Prerequisite: GEOL 50423. Petroleum engineering concepts and technology that are needed to find and produce oil and gas are discussed. This course focuses on drilling and production operations for non-engineers. Industry professionals will visit to discuss current technologies for producing hydrocarbon fluids. Graduate students will be expected to prepare and present a case study using current literature.

GEOL 60433 - Siliciclastic Sequence Stratigraphy (3)

Prerequisite: Permission of instructor. This course introduces sequence stratigraphy within the context of all stratigraphy and overviews the history of sequence stratigraphy. It includes an overview of sequence stratigraphy principles and reviews basic fundamental concepts of surface- and facies-based physical stratigraphy. Included are review of

architectural element analysis, sequence stratigraphy in seismic, borehole expression of sequences and overview of subsurface stratigraphic techniques.

GEOL 60443 - Applied Reservoir Simulation (3)

Prerequisites: ENGR 40223 or GEOL 40423 or 60423. Oil and gas are essential sources of energy in the modern world. They are found in subsurface reservoirs in many challenging environments. Modern reservoir simulators are computer programs that are designed to model fluid flow in reservoirs. Applied reservoir simulation is the use of computer programs to help understand and forecast the performance of oil and gas reservoirs. Students will learn how to apply a reservoir simulator to a variety of realistic oil and gas problems. Graduate students will be expected to prepare and present a case study using current literature.

GEOL 60493 - Hydrology (3)

Prerequisite: GEOL 50493 or permission of instructor. Two hours of lecture and two hours of laboratory per week. Principles of groundwater flow, aquifer analysis, chemical and physical properties of groundwater. Modeling of groundwater flow and contaminant transport.

GEOL 60513 - Carbonate Petrology (3)

Two hours lecture and one laboratory period per week. An examination of the chemical sedimentary rocks: limestones, dolomites, evaporites, chert, ironstones and phosphates, including their classification, genesis and diagenesis. The course has a large component of microscope study and fieldwork.

GEOL 60523 - Sandstone Petrology (3)

Two hours lecture and one laboratory period per week. Study of provenance, diagenesis and classification of sandstone using the petrographic microscope; consideration of the relationship between tectonics and sedimentation, especially sandstone composition.

GEOL 60603 - Conventional Exploration: IBA (3)

Prerequisites: Permission of the instructor; graduate student in Geology. This course is an overview of methods used in exploration for conventional accumulations of oil and gas. We will focus on petroleum systems and mapping techniques, including basin analysis, the use of petrophysical data to determine reservoir characteristics, and mapping with logs and seismic utilizing industry software. The course will include an intensive eight-week, hands-on analysis of an actual industry dataset as a team and then presenting at the Imperial Barrel Award (IBA) competition (at no cost to the participant).

GEOL 60710 - Geology Seminar (1.00-6.00)

Formal presentation and discussion of controversial topics with emphasis on geologic principles involved. For seniors with permission of instructor and graduate students.

GEOL 70771 - Non-Thesis (1)

Selected when enrolling only for non-thesis examination or preparation for the examination.

GEOL 70970 - Special Problems (1.00-20.00)

Field or laboratory problems for graduate students in various aspects of environmental science. Fifty clock hours of laboratory, field or library work for each semester hour of credit.

GEOL 70980 - Thesis (1.00-3.00)

A minimum of 3 hours of GEOL 70980 Thesis is required.

GEOL 70990 - Thesis (1.00-3.00)

Prerequisites: GEOL 70980 and admission to candidacy. A minimum of 3 hours of GEOL 70990 Thesis is required.

GRMN - German

GRMN 50033 - The Teaching of Modern Foreign Languages (3)

Prerequisite: junior standing, and GRMN 30063 with a grade of C- or better, 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 FREN 50033 and SPAN 50033.

GRMN 60063 - German for Reading Knowledge (3)

This course is designed specifically for graduate students who wish to acquire proficiency in reading German texts for research purposes without taking the time to master speaking and writing. Emphasis is on recognition of grammatical constructions, idioms and vocabulary. We will systematically cover major grammar points and representative readings. Students will demonstrate their understanding and command of the material by translating a variety of texts as well as taking vocabulary and grammar quizzes based on recognition rather than production.

HCHS - Harris College Health Sciences

HCHS 60021 - Research Seminar: Responsible Conduct in Research (1)

Prerequisites: Admission to PhD in Health Sciences program. This course will focus on principles, standards, policies, and regulations of responsible research. The course will consider the application of these domains to the conduct of research and explore decision-making processes that are needed based on situations that arise during human and animal research.

HCHS 60260 - Research Seminar: Skills and Techniques (1.00-2.00)

Prerequisites: Admission to PhD in Health Sciences program and permission of instructor. The purpose of this course is to provide Harris College Health Science Ph.D. students with a hands-on training in their respective unit discipline. Topics to vary, but may include specific field techniques, the use of specialized analytical programs or approaches, or advanced methods of scientific communication. A product of these ongoing courses throughout the first two years of the PhD experience will be to gain advanced experience in a research lab/setting, narrow a well-developed research proposal, and articulate the focus of the student's dissertation project. May be taken for 1-2 credit hours, depending on the topic. May be repeated for credit up to a total of 6 credit hours.

HCHS 60712 - Learning and Instruction in Nursing Education (3)

Prerequisites: Admission to PhD in Health Sciences program and permission of faculty. This course examines teaching and learning theories used in nursing education. Students will explore the roles and responsibilities of the educator in various settings and analyze applicable teaching strategies as appropriate to diverse groups of students.

HCHS 60783 - Teaching Practicum (3)

Prerequisites: NUED/HCHS 60712 and permission of faculty. This practicum experience enables students to apply knowledge and skills of education in varied learning settings. Students will incorporate multiple strategies for assessing, teaching, styles, assessment, exam composition, and creating a syllabus under the supervision of the professor of record.

HCHS 70112 - Philosophy of Science (2)

Prerequisites: Admission to PhD in Health Sciences program. This course provides a critical analysis of historical and current views of knowledge development as philosophies of science. Diverse approaches to knowledge development and their influence in the health sciences will be emphasized.

HCHS 70233 - Scientific & Grant Writing in the Health Sciences (3)

Prerequisites: HCHS 60021; HCHS 70112. This course is designed to provide students with instruction in the fundamentals of effective scientific communication, including manuscripts, grant applications, and poster and podium presentations. The course will be conducted using lecture, discussion, and in-class activity. In addition to a variety of smaller writing assignments, students will produce one major written product in the form of a manuscript, a research proposal, or a grant application.

HCHS 70913 - Qualitative Methods and Designs (3)

This course is designed to introduce the student to principles of qualitative research methodology including purpose, designs, samplings, coding, analysis, and dissemination.

HCHS 80100 - Special Topics in Health Sciences (1.00-3.00)

Prerequisites: HCHS 60021; HCHS 70112. This course is designed to expose doctoral students to current and emerging topics across domains of health sciences, including but not limited to communication sciences disorders, kinesiology, nursing, nurse anesthesia, and/or social work. Students will be exposed to different special topics related to

either the physical health sciences track (eg., immunology, genetics) or social health sciences track (eg., public health policy, children, pain management). May be taken for 1-3 credit hours, depending on the topic.

HCHS 80213 - Quantitative/Qualitative Methods (3)

Prerequisites: HCHS 60021; HCHS 70112; or permission of instructor. The purpose of this course is to familiarize students with research methodologies used within various fields of Health Science. Emphasis is on research design (including quantitative, qualitative, and mixed-methods approaches), critical analysis of published and proposed research, and development of research proposals.

HCHS 80223 - Intermediate Statistics (3)

Prerequisites: HCHS 80213; or permission of instructor. This course is designed to build on knowledge and skills developed in the prerequisite introductory statistics course and to foster basic expertise required to independently use common multivariate biostatistical methods to analyze health research data for peer-review presentations and publications. Data management will be discussed and practiced also.

HCHS 80233 - Advanced Statistics (3)

Prerequisites: HCHS 80223; or permission of instructor. This course is designed to further knowledge and skills developed in the intermediate statistics course and to move you, as Ph.D. students, toward the frontier of empirical techniques as used in academic journals and research projects. It aims to help you to develop skills with a range of advanced statistical procedures and programs for multivariate data analysis. The focus will be on practical issues such as preparing data for analysis, selecting the appropriate analysis, menu-driven and syntax programming, interpreting output, and presenting results of a complex nature.

HCHS 80533 - Scoping Review Methodology (3)

This course is designed to expose doctoral students to scoping review methodology, useful for systematically identifying what is known and not known around a topic of research interest. Students will identify a research question, develop a scoping review protocol, and conduct a systematized scoping review resulting in a manuscript suitable for publication submission.

HCHS 80543 - Systematic Review & Meta-analysis (3)

This course is designed to expose students to systematic review and meta-analysis methodology, useful for comparing two or more evidence-based interventions on a focused research interest. Students will identify a research question, develop a systematic review protocol, and conduct a systematic review resulting in a manuscript suitable for publication submission.

HCHS 90980 - Dissertation (1.00-20.00)

Prerequisites: Admission to Ph.D. candidacy and permission of instructor. A minimum of 6 hours of HCHS 90980 Dissertation is required.

HCHS 90990 - Dissertation (1.00-20.00)

Prerequisites: Six hours of HCHS 90980 and permission of instructor. A minimum of 6 hours of HCHS 90990 Dissertation is required.

HIST - History

HIST 50080 - Archival Internship (1.00-20.00)

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 Texas Christian University. Open only to students who are taking or have completed HIST 50070. Required of all students who select the Archives Studies option.

HIST 50133 - Seminar in Literature and History (3)

Prerequisites: Junior standing with a minimum of 9 hours in literature, history, and/or political science, or graduate standing in English or History. Interdisciplinary study of society, culture, or politics through the literature and history of a given era (variable topic). Open to graduate students and to advanced undergraduate students. Students will receive instruction from both an English professor and a History professor in content (literary works, historical studies, primary documents in periodicals or archives) and discipline-specific research methods.

HIST 50833 - Selling Sex in the City: A Global History of Prostitution (3)

This seminar explores the history of prostitution and contemporary debates regarding sex work in a global context. It examines topics including pre-modern forms of prostitution, the history of red-light districts, political economy of sex industries and sex tourism, legal structures of regulating and abolishing commercial sex, state violence against sex-workers, and legal and human rights anti-trafficking discourses. We situate sex-workers as complex, multidimensional actors engaging with societal and state institutions and with political and feminist debates concerning health and public orders, as opposed to the image of static and demoralized victims.

HIST 50963 - Historiography (3.00-6.00)

This course will explore the developments in professional historical writing from the 18th century to the present, emphasizing the changing assumptions, methodologies, and interpretive paradigms that have shaped our approach to studying the past.

HIST 50970 - Special Studies in History (1.00-20.00)

Special Studies in History. (NWH or WH)

HIST 70303 - Reading Seminar in European History (3)

A readings seminar in which students read widely in the important works on various issues and interpretations of European history.

HIST 70453 - Seminar in Asian History (3)

A readings seminar in which students read widely in the important works on various issues and interpretations of Asian history.

HIST 70603 - Reading Seminar in U.S. History (3)

A readings seminar in which students read widely in the important works on various issues and interpretations of United States history.

HIST 70703 - Reading Seminar in Military History (3)

A readings seminar in which students read widely in the important works on various issues and interpretations of Military history.

HIST 70771 - Non-Thesis (1)

Selected when enrolling only for non-thesis examination or preparation for the examination.

HIST 70803 - Reading Seminar in Vietnam War History (3)

A readings seminar in which students read widely in the important works on various issues and interpretations of Vietnam War history.

HIST 70813 - Reading Seminar in Hispanic American History (3)

A readings seminar in which students read widely in the important works on various issues and interpretations of Hispanic American history.

HIST 70903 - Reading Seminar in Latin American History (3)

A readings seminar in which students read widely in the important works on various issues and interpretations of Latin American history.

HIST 70980 - Thesis (1.00-20.00)

Thesis

HIST 70990 - Thesis (1.00-20.00)

Thesis

HIST 80083 - History as a Profession: Teaching, Research, and Service (3)

Covers all aspects of the teaching profession, including selection of readings, designing courses, preparation and delivery of class lectures, leading class discussions, preparing and grading exams, and professional expectations during and after graduate school.

HIST 80090 - Supervised Teaching at the College Level (0)

All teaching assistants who are assigned to teach undergraduate courses must enroll for this course.

HIST 80453 - Research Seminar in World History (3)

Research seminar in World History. Students will read widely around important historiographical issues in World History and conduct intensive research on a specific topic in World History.

HIST 80603 - Research Seminar in U.S. History (3)

Research Seminar in U.S. history.

HIST 80703 - Research Seminar in Military History (3)

Research Seminar in Military history.

HIST 80803 - Research Seminar in Vietnam War History (3)

Traces the history of China's social and military influence on Vietnam, the history of pre-European Vietnam, French conquest, Indo-China War, the roots of U.S. involvement, the course of the U.S. war, U.S. domestic developments and post-1975 Socialist Republic of Vietnam.

HIST 80813 - Research Seminar in Hispanic American History (3)

Research Seminar in Hispanic American history.

HIST 80903 - Research Seminar in Latin American History (3)

Research seminar in Latin American history.

HIST 90980 - Dissertation (1.00-20.00)

Prerequisite: Written permission of chairman of the department.

HIST 90990 - Dissertation (1.00-20.00)

Prerequisite: Admission to candidacy. Continuation of 90980. A minimum of 12 hours of dissertation credit is required.

INSC-Info-Systems-Supply-Chain

INSC 60010 - Statistical Models (1.5)

1.5 credit hours. This course teaches quantitative methods used in data analysis and business decision-making with an orientation towards regression analysis. This course presents the basic topics in regression including statistical inference from regression output, limitations of regression models and the pitfalls involved in their use. Analysis of both cross-sectional data and time-series data will be discussed. Additional topics include aspects of statistical process control, ANOVA, chi-square tests and logistic regression. The course is taught from an applied perspective using computer software (Excel and Minitab) to perform statistical analyses.

INSC 60011 - Supply Chain Management Fundamentals (1)

The course is designed to bridge the gap between an undergraduate knowledge of operations and/or supply chain management and a graduate level course. As such, there is less emphasis on memorization of terminology and much greater emphasis on critical thinking, analytics, and decision-making. The course demonstrates how various processes and partnerships within a company's supply chain can be integrated to deliver value to customers. Students who do well in this course will learn to speak the language of supply chain management and they will understand fundamental supply chain strategies and tactics that can be used to gain competitive advantage.

INSC 60013 - Data Analysis for Managerial Decisions (3)

Prerequisites: students must have PMBA-MBA, ACCP-MBA, ENRG-MBA or ACCE-MBA plan. Examines statistical techniques helpful in making effective managerial decisions. Deals with applications from business. Topics include descriptive statistics, exploratory data analysis, basic probability concepts, estimation, hypothesis testing, analysis of variance, and regression analysis. The course is taught from an applied perspective using Excel to perform statistical analysis.

INSC 60020 - Managing Operations and Processes (1.5)

1.5 credit hours. Prerequisites: INSC 60600 or 60011. Develops concepts and analytical skills to address issues related to the efficient and effective management of work. Emphasizes the role of integrated processes as competitive weapons, including product and service development, and examines alignment of operational capabilities with firm strategy. Discusses the increasingly important role of process choice, design, analysis, integration, synchronization, and improvement, including lean and six sigma.

INSC 60023 - Manufacturing and Services Operations Management (3)

Prerequisite: ACCT 60010, and concurrent enrollment in INSC 60013 (for PMBA students) or concurrent enrollment in INSC 60010 (for FT MBA students). Develops concepts and analytical skills to address issues related to the creation and distribution of goods and services. Emphasizes the role of operations functions as competitive weapons and examines how operations strategy can be integrated with corporate strategy and other functional strategies. Discusses the increasingly important role of global competition, technology, and total quality. Other topics include process design, capacity planning, technology choice, planning and inventory control, and just-in-time systems. Technology is emphasized.

INSC 60040 - Managing Information Technology (1.5)

1.5 credit hours. An investigation of information technology as a facilitator of organizational strategy and business process redesign. The role of information in the evaluation and control of corporate uncertainty at the organizational and interorganizational levels is examined. Particular emphasis is placed on the successful design, implementation, and use of information technologies in both national and international organizations. Technology is emphasized.

INSC 60050 - Business Analytics (1.5)

1.5 credits. Prerequisites: Graduate standing. Students may not receive credit for both INSC 70600 and INSC 60050. This course is an introduction to the fundamentals of business analytics. Business analytics are enabled by business intelligence (BI) tools for the purpose of analytic decision making. BI systems combine gathering data, storing it, and analyzing it to present complicated company and competitive information to planners and decision makers. By providing wider visibility to plans and supporting data, analytical tools increase the return on existing organizational planning applications because they help companies understand where and how they deviate from their plan objectives. In addition, they provide shared data availability that encourages a global perspective on business performance. Real-world case studies will show students the ways organizations are using analytics to support both tactical and strategic decision-making.

INSC 60051 - Tech Boot Camp (1.5)

Prerequisites: Admitted to Masters of Science in Business Analytics program. This course is a survey course, introducing a range of programming tools and modeling techniques. No technical knowledge is assumed on the part of the student. Specifically, we will use the Python scikit-learn library via Jupyter notebooks and several R packages through the RStudio IDE. Through these tools, we will explore functions for unsupervised machine learning (k-means, k-medoids, hierarchical clustering) and supervised learning (logistic regression, decision trees, and naive Bayesian) models. We will also explore artificial intelligence via functions for neural nets.

INSC 60060 - Decision Models (1.5)

1.5 credits. This course is an introduction to decision modeling. The primary emphasis of this course will be on formulation and interpretation, thinking structurally about decision problems, making more informed decisions, and ultimately sharpening students' decision-making skills. It will introduce business students from a variety of backgrounds to some of the key techniques such as decision trees, linear programming, network models and simulation. The course will address models for a variety of applications such as: product-mix decision, portfolio management, product development and introduction, performance of production distribution networks, market share analysis, and investment strategy.

INSC 60070 - Data Visualization (1.5)

Prerequisites: INSC 60050. Designed for students who have an interest in developing data visualization skills. Big Data is everywhere, but a big data set can be difficult to understand and interpret. Presenting data to your audience in the right aesthetic form and functionality is critical to convey the information effectively. This hands-on course will focus on how to use various data analysis tools and techniques to communicate complex information with visually appealing charts, graphs and maps. The course will focus on: 1) employing best practices for using databases to create visualizations and maps that tell stories with data, 2) learning how to prepare data visualizations, 3) creating interactive data illustrations including dashboards, and 4) building business analytic skills using Tableau.

INSC 60120 - Survey of Analytics Technology (1.5)

Prerequisites: Admitted to Master of Science in Business Analytics program. This course examines contemporary topics in the field of business analytics, which can be broadly classified as process and tools. Students will be able to explain the lifecycle of analytics from raw data, feature engineering, model development, model assessment, and model monitoring. The students will also be able to describe the tech stacks from SQL and other types of databases to extraction tools, modeling tools, and presentation tools.

INSC 60600 - Concepts in Supply Chain Management (1.5)

1.5 credit hours. Effective Supply Chain Management (SCM) has become increasingly important to businesses. This course will provide an overview of the major concepts associated with SCM. Topics include logistics, transportation, procurement, demand forecasting, supply chain operations, information technology and global SCM.

INSC 65013 - Business Analytics for Managerial Decisions (3)

3.0 credit hours. Prerequisites: Must be an EMBA candidate. Examines statistical and analytical techniques to analyze data for effective managerial decisions. Deals with applications from business. Topics include description and summarization of data, exploratory data analysis, testing hypothesis, analysis of variance, regression analysis and forecasting, and fundamentals of decision theory.

INSC 65020 - Managing for Operational Excellence (1.5)

1.5 Credit Hours. Prerequisite: Must be an EMBA candidate. Operations Management (OM) is the systematic planning, design, operation, control, and improvement of business processes. The course is designed to examine the roles of operations management in creating and delivering value to customers, and thereby creating competitive advantage to the firm. Students will gain an understanding of strategic and tactical approaches for achieving excellence in along with an exposure to some of the latest tools and techniques for analyzing and improving operational processes.

INSC 65023 - Operations Management (3)

3 credit hours. Prerequisite: Must be an EMBA candidate. This course develops concepts and analytical skills to address the issues related to the creation and distribution of goods and services. It emphasizes the role of operations functions as a competitive weapon and examines how operations strategy can be integrated with corporate strategy and other functional strategies. It discusses the increasingly important role of global competition, technology, and total quality. Other topics include process design, capacity planning, technology choice, planning and inventory control, and just-in-time systems. Technology is emphasized.

INSC 66110 - Supply Chain Management and Analytics (0)

Prerequisites: Admitted to Master of Science in Business Analytics program. This course is designed to demonstrate how various processes and partnerships within a company's supply chain can be integrated to deliver value to customers. Students will learn to speak the language of supply chain management and understand fundamental supply chain strategies, develop tactics that can be used to gain competitive advantage, and apply technology tools and techniques to analyze and improve supply chain processes.

INSC 70430 - Supply Chain Operations Management (1.5)

1.5 credit hours. Prerequisites: INSC 60600 or 60011. This course serves as an MBA elective. An in-depth study of the theory and practice of supply chain management function in manufacturing and service industries. Supply chain management is the integration of the activities associated with the flow and transformation of goods from the raw materials stage through to the end user, to achieve a sustainable competitive advantage. This course provides insights into the conceptual foundations and facilitates an understanding of the strategic concepts and tools necessary for meeting the challenges in the management of supply chains. Topics include management of logistics networks, material flows and the role of information systems technology.

INSC 70520 - Time Series Forecasting (1.5)

1.5 credit hours. Prerequisite: INSC 60010 or 60013. This course serves as an MBA elective. Presents extrapolative time-series forecasting techniques with applications to business and economic data. Techniques discussed include moving averages, decomposition, exponential smoothing and ARIMA models. Provides an understanding of the limitations of forecasting models and the pitfalls involved in their use. Qualitative forecasting is also discussed. Extensive use of computer software for time series forecasting. Applications to real business and economic data.

INSC 70600 - Supply Chain Analytics (1.5)

1.5 credit hours. Prerequisites: INSC 60600. This course is an introduction to the fundamentals of supply chain analytics. Supply chain analytics are enabled by business intelligence (BI) tools for the purpose of analytic decision making. BI systems combine gathering data, storing it, and analyzing it to present complicated company and competitive information to planners and decision makers. By providing wider visibility to plans and supporting data, analytical tools increase the return on existing supply chain planning applications because they help companies understand where and how they deviate from their plan objectives. In addition, they provide shared data availability that encourages a global perspective on business performance. Real-world case studies will show students the ways organizations are using analytics in their supply chain to support decision-making.

INSC 70610 - Logistics and Transportation (1.5)

1.5 credit hours. Prerequisites: INSC 60600 or 60011. Logistics is a core business process that facilitates the creation of value for the external customer and helps to integrate the other functions and processes within the firm. Logistics is defined as that part of the supply chain process that plans, implements, and controls the efficient, effective forward and reverse flow and storage of goods, services, and related information between the point of origin and the point of consumption in order to meet customers' requirements. This course will cover many aspects of business logistics, including materials management, physical distribution, customer service, order processing, information flows, transportation, warehousing and inventory management.

INSC 70620 - Supply Chain Information Tools and Technologies (1.5)

1.5 credit hours. Prerequisites: INSC 60600 or 60011. Effective supply chain management is heavily dependent on integration of state-of-the-art information tools and technologies. This course will provide an understanding of supply chain models and practical tools for effective decision making and integrated supply chain management (for example ABC segmentation, demand forecasting and planning, inventory management, distribution management and multi-plant coordination). The emphasis will be on exploring tools and off-the-shelf software packages that have been proven effective in many industries, and on identifying and understanding implementation issues associated with the use of such tools.

INSC 70630 - Demand Forecasting Management (1.5)

1.5 credit hours. Prerequisite: INSC 60600 or 60011. This course provides an in-depth study of the processes that balance customer demands with production, procurement, and distribution capabilities. Accurate demand forecasting provides for added flexibility and visibility of inventory, and reduced variability in supply chain outcomes. Core conceptual areas include demand forecasting and management, synchronization of supply and demand, inventory capacity, balancing and positioning, inventory planning, sales and operations planning, and strategic order fulfillment issues.

INSC 70640 - Global Supply Chain Management (1.5)

1.5 credit hours. Prerequisites: INSC 60600 or 60011. This course will deal with (a) the diversity and complexity to be understood and managed in the globalization of supply chain activities, (b) unique characteristics of global transportation (ocean shipping, intermodal, and air) system, (c) legal and regulatory issues impacting global supply chain decisions, (d) import and export processes, (e) documentation requirements, and (f) challenges and integration issues with global supply chain management.

INSC 70650 - Strategic Sourcing and Procurement (1.5)

1.5 credit hours. Prerequisite: INSC 60600 or 60011. This course focuses on the key issues related to the strategic implications of sourcing of products, the purchasing of goods and services, and the role of purchasing in a supply chain context. Provides students with an understanding of purchasing processes, issues, and best practices. Emphasis areas include supplier quality, relationship management, and global sourcing.

INSC 70660 - Supply and Value Chain Strategy (1.5)

1.5 credit hours. Prerequisites: INSC 60600 or 60011. This course is designed to be the capstone course for the MBA with a concentration in Supply Chain Management. It will help students integrate all the elements of supply chain management, and examine how they might be applied to achieve strategic advantage for the firm. The course will use a combination of readings on supply chain strategy and case analysis.

INSC 70670 - ERP Systems in Contemporary Organizations (1.5)

1.5 credit hours. Prerequisite: Student must have SCMT-MS degree plan. This course is designed to introduce MBA students to the underlying need for business process integration in large organizations through ERP systems. Students will become acquainted with one particular software package (SAP ERP system), including its architecture and user interface, and will become knowledgeable about the issues and challenges in introducing such systems into large organizations.

INSC 70680 - Sustainable Supply Chain Management (1.5)

1.5 credits. This interactive class will explore what is happening in supply chains today through the lens of sustainability. After an introduction to the basics of sustainability and systems thinking, students will explore sustainability challenges and opportunities in the various business functions with a focus on product design, sourcing and procurement, manufacturing and processing and logistics. Sustainable business strategies, life cycle analysis, recovery processes, and sustainability metrics will be discussed.

INSC 70693 - Integrative Field Study (3)

This project oriented course provides integration and application of the MS SCM curricula. Each student will identify a field study opportunity, define the scope of a research/problem solving project, execute the project, and report on solution value and lessons learned.

INSC 70773 - Emerging Information Technologies for Decision Support (3)

Managerial perspective of emerging information technologies for problem solving and decision-making. Examination of decision factors that must be considered when using decision support technologies are examined. Formulation, development and evaluation of decision support systems, expert systems, neural networks, hypermedia, and user interface designs are discussed. Hands-on use of decision support technologies and field trips.

INSC 70793 - Global Supply Chain Experience (3)

3 credits. Prerequisites: Student must have SCMT-MS degree plan. This global immersion course provides students with an immersive experience in a region of the globe. The course typically involves travel to multiple countries within one of the major regions (Americas, Europe, Asia Pacific) where students will tour various supply chain operations. The focus of the course is challenges and opportunities associated with sourcing from and serving global markets. Topics include manufacturing capabilities and transportation infrastructures, labor availabilities, input cost and quality differences, and differences in national culture and business practices.

INSC 70970 - Special Problems in Information Systems and Supply Chain Management (1.00-20.00)

Special Problems in Information Systems and Supply Chain Management.

INSC 71003 - Project Management (3)

Prerequisite: INSC 60020 or 60011. Presents, discusses, and applies major concepts and techniques of project management. Familiarizes students with problems and issues confronting project managers and provides vocabulary, concepts, insights, and tools to address these issues. Topics include project planning, scheduling, budgeting, monitoring, metrics, control, scope, time, cost, quality, and risk. Tools include activity network scheduling, critical path method, design structure matrix, Monte Carlo simulation, and earned value management. Assignments include working with software tools, analyzing cases, and studying a real project. The course is also helpful for those seeking to attain the (external) Project Management Professional" (PMP) certification from the Project Management Institute."

INSC 71020 - Six Sigma Green Belt for Managers (1.5)

1.5 credits. Prerequisites: INSC 60010 or 60013, and INSC 60020. This course builds upon concepts and methods from other MBA courses and supplements these to complete the requirements for a Six Sigma Green Belt certification. Topics include the Six Sigma process (DMAIC), process definition and measurement, process analysis and improvement tools, process capability measures and statistical process control. Students will apply their skills to an improvement project in industry (a typical requirement for any Green Belt certification.) Upon successful completion of the course, students will receive a Green Belt Certification from the Neeley School. Students should also be sufficiently equipped to gain a similar certification from other sources.

INSC 71030 - Managing Risk & Uncertainty (1.5)

1.5 credit hours. Risk management (RM) is the art, science, and practice of making good business decisions in the face of consequential uncertainty. RM is essential to success in almost every area of management, but especially in the contexts of complexity, novelty, and uncertainty that characterize many contemporary endeavors. This course addresses the major concepts, basic techniques, and key challenges of RM. It aims to (1) familiarize students with the problems and issues confronting risk managers in several contexts and (2) provide students with the vocabulary, concepts, insights, and tools to address these issues. As a first course in RM, it provides an overview of several areas and knowledge of foundational tools (other than financial risk tools such as derivatives).

INSC 71050 - Leading Supply Chains (1.5)

This course addresses the challenges of leading supply chain management organizations in complex environments. Students will learn how to manage integrative, cross-functional relationships in dynamic business contexts. The specific focus will be developing

business acumen, organizational leadership and communication strengths, and strategic thinking. Students will leave the course with a better understanding of the challenges being faced, how they as leaders need to approach those challenges, and how supply chain management contributes to business success.

INSC 71100 - ERP Simulation (1.5)

The ERP Simulation is an innovative learning by doing and problem based approach to teaching MBA students ERP concepts. During the game, students will work on teams to run a business with a real-life SAP ERP system. The simulation places the students at the heart of a make to stock manufacturing company, where they must operate the full business cycle (plan, procure, produce and sell), and in so doing experience the value of up and downstream information visibility.

INSC 71110 - Predictive Analytics with SAP (1.5)

Predictive analytics is the practice of extracting information from existing data sets with data visualization software in order to determine patterns and predict future outcomes and trends. The course will employ a learning-by-doing approach to teach students how to utilize the latest SAP analytics applications to analyze real-world Big Data sets to anticipate future behavior. In particular, students will practice the three major areas that comprise predictive analytics (i.e., reporting, visualization, and prediction) through guided exercises and case studies.

INSC 71120 - Business Process Management (1.5)

This course provides an overview of Business Process Management (BPM) as both a management discipline and as a set of enabling techniques to analyze and design business operations. The course teaches the student the key concepts, terms, methodologies, techniques in BPM. It describes the nature of business processes and how to apply the tools and techniques to improve and reengineer business processes and procedures. Students will learn about the practices that are making process thinking a new approach to solving business problems and are continuously improving organizational performance. Students will learn how to apply critical success factors and discover the pitfalls to avoid. In addition, students will practice key process measurement skills on case studies and apply these to their own organization through connection exercises.

INSC 71130 - Data Analytics Simulation: Process Design & Strategic Decision-Making (1.5)

This course in Data Analytics course utilizes Analytics simulations to explore concepts of process design and strategic decision-making. This course takes an analytical approach to allow MBA students to increase their intuition and understanding of core operational and performance concepts. The focus of this course is to: a) expose students to the core concepts in data and process analysis in a dynamic and experiential manner; b) increase student intuition regarding the interplay between the various elements of data analytics via toolkit-style exercises; c) give students the tools by which to understand data analysis via experimentation and proactive creation. These principles are examined via hands-on exercises, case studies, and class discussion.

INSC 71140 - GIS: Analytics for interactive mapping to solve business problems (1.5)

Learn GIS - a mapping and business analysis tool for applying geospatial analytics to your business practices. Gain greater insights using contextual tools to manage, visualize and analyze your data as you collaborate and share via maps, dashboards and reports. Specifically, GIS is an online geographic information system and is used to solve a variety of issues in many disciplines including data visualization, location analysis, environmental, social and corporate governance (ESG) and network design. Through a series of tutorials and a team-based project learn to connect people, locations and data using layers of information.

INSC 72450 - Health Care IT and Data Analytics (1.5)

The purpose of this class is to introduce students to the various applications of IT and big data in health care. We will understand the broader policy context that has led to this deluge of information, such as the HITECH Act. We will explore different sources of health care data, such as Electronic Health Record data, social media databases, wireless sensor networks. For each of these data sources, we will review associated analytic techniques, such as Natural Language Processing (NLP) of free text from EHRs and social media. We will also explore the language of medicine, as expressed in various coding systems, such as ICD9-CM, ICD10-CM, and SNOMED, and how complex medical jargon can be made more accessible to patients.

INSC 72470 - Healthcare Improvement Science (1.5)

This course introduces the frameworks, strategies, and practical techniques to prepare healthcare leaders to implement the principles, tools, measurement techniques and cultural elements necessary to lead healthcare quality, outcomes and safety improvements initiatives.

INSC 75663 - Supply Chain and Operational Strategy (3)

3.0 credit hours. Prerequisite: Must be an EMBA candidate. For many companies, supply chain management has become an important element of competitive strategy. However, to achieve a competitive advantage requires effective design and integration of operations, supply chain strategies, processes, and information technologies. Through an integrated simulation as well as selected readings and case analysis, this course will examine the linkages between supply chain strategy and competitive strategy, critical elements for effective supply chain management, and current trends in operational strategy.

JOUR - Journalism and Strategic Communication Courses

JOUR 50123 - Foundations

Seminar devoted to the analysis and discussion of significant issues in journalism and strategic communication with a focus on related literature, research areas and professional practice. Offered as STCO/JOUR 50123.

JOUR 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.

JOUR 50173 - International Reporting

Prerequisite: JOUR 30204, or permission of instructor. The course will critically analyze the coverage of international affairs by U.S. and other media. It will help the student develop competency in researching, analyzing and reporting about international issues, including the impact of international communication.

JOUR 50183 - Management and Leadership

This course will give students a survey of some of the latest management and leadership communication theories and practices, including a new sense of social responsibility. Students will apply theories to solve problems in existing case studies. Cross listed as JOUR 50183.

JOUR 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 also 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.

JOUR 50523 - Information Law and Policy (3)

Prerequisites: Open to graduate students in Journalism and Strategic Communication. Undergraduate students must have passed JOUR 40523 (Law and Ethics of Mass Communication) or STCO 46403 (Law) with a grade of C or higher and must have permission of the instructor. Advanced media law course for students focusing on contemporary challenges faced by journalism and strategic communication professionals. The course emphasizes how the law of mass communication has adapted to new and emerging technologies such as the Internet and social media, with a particular focus on privacy, access to information, and intellectual property. Students will learn and apply normative legal research methods to answer modern questions relevant to professional communicators. Cross listed as JOUR 50523.

JOUR 60113 - Research Methods (3)

Introduction to quantitative and qualitative methods commonly used in journalism and strategic communication. This course is offered for STCO or JOUR credit.

JOUR 60123 - Theory (3)

An introduction to the theories of advertising, public relations, journalism, and mass communication, with attention to how theories inform practice and practice informs theory. This course is offered for STCO or JOUR credit.

JOUR 60133 - Ethics (3)

Principles of media and strategic communication ethics, codes and practices. Provides students with theoretical foundation to identify and think critically about ethical issues in strategic communication and media, with focus on applying principles to contemporary issues and practices. Crosslisted as JOUR 60133.

JOUR 60143 - Literature of Mass Communication (3)

Examination of literary works in journalism and mass communication. The course is designed to connect a journalism education to broader social science concepts in a manner that should stimulate critical thinking about the role of the media in American and international societies.

JOUR 60153 - Project in Broadcast Journalism (3)

This course will allow the student to take a real-world problem or opportunity that has a strong research component and develop it for course credit and for application on the job. The course is designed to afford students interested in broadcast journalism the opportunity to identify and extensively research a community or a broadcast issue or problem.

JOUR 60163 - Project in Print/Internet Publications (3)

This course will allow students the opportunity to take a workplace problem that has a strong research element and develop it for application on the job. Such a project could be developing a proposal for a series of stories on a major issue, preliminary work on an investigative series using social science research techniques, performing a management case study, conducting research on readership, or identifying the type of sources used in stories.

JOUR 60183 - Global Strategic Communication (3)

This course examines the theories and practices of effective communication messaging for a global audience. Students will also learn how technology, culture, and social structures impact strategic communication in an international arena. Crosslisted as JOUR 60183.

JOUR 60970 - Special Problems: Journalism and Mass Communication (1.00-3.00)

A conference course designed to give an individual student or group of students opportunities for additional specialized work in a particular area of concentration. (Maximum of 3 hours credit per semester may be repeated for maximum of 6 hours credit.)

JOUR 70903 - Graduate Seminar (3)

Graduate capstone seminar that introduces the concepts used in developing a thesis or professional project. Includes guidance on formulating a proposal, necessary theoretical concepts and organizational structure of the project or thesis.

JOUR 70980 - Thesis (1.00-6.00)

Thesis.

JOUR 70990 - Thesis (1.00-6.00)

Thesis.

KINE - Kinesiology

KINE 50104 - The Lower Extremity (4)

Prerequisites: Admission to Master of Science in Athletic Training Program. Develop an evidence-based approach to the clinical evaluation and therapeutic intervention of lower extremity pathologies.

KINE 50113 - Organization and Administration in Athletic Training (3)

Prerequisites: Admission to Master of Science in Athletic Training Program. Knowledge and skills necessary to administer and manage an athletic training program including record-keeping, budget, insurance, facility principles, legal issues and professional ethics.

KINE 50124 - Head, Neck and Spine (4)

Prerequisites: Admission to Master of Science in Athletic Training Program. Develop an evidence-based approach to the clinical evaluation and therapeutic intervention of head, neck and spine pathologies.

KINE 50201 - Athletic Training Clinical II (1)

Prerequisites: Admission to Master of Science in Athletic Training Program. Integration of athletic training knowledge and skills with classroom instruction and supervised clinical experience.

KINE 50214 - The Upper Extremity (4)

Prerequisites: Admission to Master of Science in Athletic Training Program. Develop an evidence-based approach to the clinical evaluation and therapeutic intervention of upper extremity pathologies.

KINE 50224 - General Medical Conditions and Applied Pharmacology (4)

Prerequisites: Admission to Master of Science in Athletic Training Program. Evaluation and treatment of general medical conditions seen by the practicing athletic trainer and pharmaceuticals used in the treatment of these conditions.

KINE 50301 - Athletic Training Clinical III (1)

Prerequisites: Admission to Master of Science in Athletic Training Program. Integration of athletic training knowledge and skills with classroom instruction and supervised clinical experience.

KINE 50970 - Special Topics in Kinesiology (1.00-20.00)

Prerequisite: Approval of adviser and course instructor.

KINE 51203 - Advanced Movement Analysis (3)

Prerequisites: KINE 10101 and 10603. Foundational and applied knowledge for conducting motor skill analysis of human movement activities.

KINE 51413 - Psychology of Aging and Physical Activity (3)

Prerequisites: Senior or graduate standing or permission of instructor. This course provides an overview of the major theories, research methods; empirical findings; and practical applications within psychology of aging and physical activity.

KINE 51423 - Psychology of Injury In Physical Activity (3)

Prerequisites: Senior or graduate standing or permission of instructor. This course will provide an overview of the psychosocial factors related to the prevention of and recovery from injuries in physical activities, including the theoretical foundations and psychological intervention strategies related to injury.

KINE 55001 - Athletic Training Clinical I (1)

Prerequisites: Admission to Master of Science in Athletic Training Program. Introduction to the Athletic Training Profession and implementation of knowledge and skills in an initial immersive practice setting.

KINE 55013 - Clinical Skills and Emergency Management (3)

Prerequisites: Admission to Master of Science in Athletic Training Program. Evaluation and management of acute and emergency conditions.

KINE 55023 - Therapeutic Interventions (3)

Prerequisites: Admission to Master of Science in Athletic Training Program. Foundational knowledge and skills of therapeutic interventions in the treatment and rehabilitation of musculoskeletal injuries.

KINE 55033 - Introduction to Musculoskeletal Evaluation (3)

Prerequisites: Admission to Master of Science in Athletic Training Program. Foundational knowledge and skills of the musculoskeletal evaluation process.

KINE 55042 - Research in Athletic Training (2)

Prerequisites: Admission to Master of Science in Athletic Training Program. Methods and procedures utilized in research and the evidence-based approach to making clinical decisions in athletic training.

KINE 60103 - Research Methods in Kinesiology (3)

Emphasis is on the design and analysis of research projects and the writing of research papers.

KINE 60203 - Advanced Motor Development (3)

Prerequisite: KINE 30423 or consent of the department. Study of how and why the fundamental motor skills progress from inefficient to efficient patterns of movement. Emphasis on the interacting influence of mechanics, control and coordination on naturally developing systems.

KINE 60213 - Advanced Biomechanics (3)

Investigation of mechanical principles primary to understanding human movement performance. Special emphasis on application of mechanics to the analysis of human performance.

KINE 60303 - Athletic Training Field Experience (3)

Prerequisites: Admission to Master of Science in Athletic Training Program. Field experience opportunity that allows student to gain immersive experience in various Athletic Training settings. Field experiences require approval by the Athletic Training Program Director.

KINE 60313 - Current Trends and Issues in Athletic Training (3)

Prerequisites: Admission to Master of Science in Athletic Training Program. Current trends and issues contributing to the professional preparation of athletic training professionals.

KINE 60323 - Behavioral Health Concerns for the Athletic Trainer (3)

Prerequisites: Admission to Master of Science in Athletic Training Program. Recognition and management of the socio-cultural, mental, emotional, and physical behaviors of patients in traditional and emerging athletic training practice settings.

KINE 60403 - Athletic Training Clinical IV (3)

Prerequisites: Admission to Master of Science in Athletic Training Program. Integration of athletic training knowledge and skills with classroom instruction and supervised integrative and immersive clinical experiences.

KINE 60413 - Seminar in Athletic Training (3)

Prerequisites: Admission to Master of Science in Athletic Training Program. Current topics in the Athletic Training Profession and preparation for BOC examination.

KINE 60423 - Advanced Motor Behavior (3)

Prerequisite: KINE 20503 or consent of the department. An in-depth study of the mechanisms and processes involved in the control of human motor activity. Focus on contemporary issues of motor control.

KINE 60433 - Curriculum Development in Physical Education (3)

Prerequisite: KINE 20403 or KINE 40513 or consent of the department. Theories and trends of curriculum construction in physical education. Emphasis on innovative programming in K-12 setting.

KINE 60443 - Behavior analysis in Sport and Physical Education (3)

The application of behavioral principles and systematic observation procedures and research to teaching physical education and coaching athletes.

KINE 60453 - Advanced Clinical Skills and Techniques in Athletic Training (3)

Prerequisites: Admission to Master of Science in Athletic Training Program. Advanced clinical skills and techniques in the prevention, evaluation and treatment of musculoskeletal conditions.

KINE 60503 - Physical Activity for Individuals with Disabilities (3)

In-depth examination of the conceptual framework of adapting for individual differences in activity settings. The impact of inclusion, the Americans with Disabilities Act, and sport classification in fitness, recreation, and school physical activity settings will be discussed. Emphasis on practical application of knowledge.

KINE 60513 - Practicum in Adapted Physical Activity (3)

Hands-on practical experiences in a physical education/community based sports setting with a variety of individuals with disabilities. Activities will include assisting, teaching and supervising physical education and exercise classes, assessing present needs, developing and implementing an individualized program, teaching individuals as well as small and medium-sized groups, videotaping and observing teaching behaviors, learning to utilize volunteers and aides.

KINE 60523 - Assessment and Programming in Adapted Physical Activity (3)

Diagnostic-prescriptive process in adapted physical activity; identifying underlying components of various psychomotor assessment instruments; administering and interpreting assessments; developing appropriate programming strategies based on assessment results; and service delivery options for carrying out programming plans.

KINE 60533 - Athletic Training Clinical V (3)

Prerequisites: Admission to Master of Science in Athletic Training Program. Integration of athletic training knowledge and skills with classroom instruction and supervised integrative and immersive clinical experiences.

KINE 60613 - Physiology of Exercise (3)

Study of physiological responses and adaptations in physical activity germane to selected areas of physical education that are beyond the introductory level.

KINE 60623 - Cardiopulmonary Physiology (3)

Examination of the responses of the cardiovascular system to acute and chronic exercise. Emphasis on the effects of exercise on cardiac metabolism, hemodynamics, electrophysiology, pulmonary responses, gas exchange, gas transport, and renal function.

KINE 60633 - Laboratory Techniques in Exercise Physiology (3)

Prerequisite: KINE 60613 or consent of the department. Practical and theoretical knowledge of evaluation of physical performance. Emphasis on acquisition and analysis of data for research in exercise physiology.

KINE 60643 - Clinical Exercise Testing (3)

Practical and theoretical knowledge of clinical exercise testing. Emphasis on electrocardiography, health appraisal and risk assessment, guidelines and procedures, and pharmacology of cardiac medications.

KINE 60653 - Exercise Metabolism and Endocrinology (3)

Emphasis on metabolic and neuroendocrine control of bioenergetic pathways during acute and chronic exercise. Presentation of these areas will serve as the foundation for independent library and laboratory research.

KINE 60663 - Practicum in Cardiac Rehabilitation (3)

Practical experience in exercise testing and prescription in individuals with cardiopulmonary disease. Activities will include assisting in clinical exercise tests, conducting health risk appraisals, and developing, implementing, and supervising an individualized exercise program. All of these activities will be performed at a local hospital-based cardiac rehabilitation center.

KINE 60673 - Nutrition, Physical Activity and Disease (3)

A study of the roles that nutrition and physical activity play in chronic diseases, with an emphasis on prevention and treatment of chronic diseases by lifestyle modifications.

KINE 60683 - Obesity: Etiology, Pathophysiology, and Treatment (3)

This course will consist of four major parts: epidemiology of obesity and assessment of body fat, food intake, and energy expenditure; etiology of obesity; pathophysiology and social consequences of obesity; and prevention and treatment of obesity.

KINE 60713 - Sport Psychology (3)

The course content consists of an in-depth study of parameters of human behavior specifically related to sport including personality factors, expectancy effects, motivational techniques, team dynamics, leadership qualities, character development, and aggression.

KINE 60733 - Applied Sport Psychology (3)

Theoretical and practical knowledge of contemporary issues in applied sport psychology. Topics include confidence, arousal, stress, and anxiety, mental imagery, attentional control, goal setting, psychological rehabilitation, and career termination. Laboratory experiences will accompany each topical area.

KINE 60743 - Practicum in Sport Psychology (3)

Prerequisite: KINE 60733 or consent of the department. The course consists of practical experience in sport psychology interventions and consulting. Activities will include assisting in the administration of psychological assessment, creating and administering team discussions, performance enhancement interventions, and evaluation of program effectiveness. All of these activities will be performed in an athletic environment with a high school, college, or private team or individual sport setting.

KINE 60753 - Exercise Psychology (3)

This course will include a number of topics germane to the relationship between psychological processes and exercise behavior including adherence, mood, stress, and quality of life. Emphasis will be placed on theoretical perspectives in exercise psychology, related empirical research, and resultant practical implications.

KINE 60970 - Workshop in Health and Physical Education (1.00-20.00)

Prerequisite: Approval of advisor and course instructor.

KINE 70903 - Treatise (3)

Independent examination of an issue relative to Kinesiology. Students complete a paper under the advisement of a faculty member in the department.

KINE 70933 - Psychology of Play across the Lifespan (3)

Prerequisites: Graduate status. Overview of theory and research in play psychology, with a focus on the interactive relationship between biological, developmental, psychological, and sociocultural play contributions to lifespan resiliency. The course will also provide an introduction to playground designs for all ages and selected psychological interventions to promote play. Lastly, the course will examine how the action of play shapes the brain, develops critical thinking skills, and strengthens the ability to collaborate with others in social settings.

KINE 70970 - Special Problems in Kinesiology (1.00-20.00)

Prerequisite: Approval of adviser and course instructor.

KINE 70980 - Thesis (1.00-3.00)

Prerequisite: Admission to candidacy.

KINE 70990 - Thesis (1.00-3.00)

Thesis

MALA - Master of Liberal Arts

MALA 60013 - Picturing Authority and Royalty in Europe (3)

Prerequisites: Students must be enrolled in the MLA program. This course will examine how visual representations of authority both shaped and reflected the political and cultural climates of Europe during the sixteenth through nineteenth centuries. This investigation will familiarize students with the visual rhetoric of power and help them develop understandings of the ways in which images relate to identity construction and socially and culturally-specific notions of gender, power, and authority in a variety of time frames, historical contexts, and geographic locations. Throughout the semester, students will explore how those in power used images to create, maintain, and promote their authority and manage their public personas while exploring the relationships between visual representations, society, and culture. By discussing historical precedents, this course will also raise issues pertinent to current cultural ideologies and visual rhetoric.

MALA 60033 - Outbreak: Infectious Diseases and World History (3)

A broad, integrated view of infectious disease in humans within the context of society and history. Development of medical science and technology, effects of disease in society, and conduct and limitations of historical inquiry will be examined.

MALA 60043 - Mass Media and Society (3)

As the presidential election campaign gets into full swing, the role of the media will become increasingly important as news coverage, presidential debates, and election advertising bring this important issue to the public. Mass Media and Society will examine not only the presidential campaign, but also the impact of media on individuals, institutions, and community. Participants in this course will probe how and why the media developed the way it did, where the media is today, and where the media seems to be heading in the age of information. The class will explore the cultural context and norms of major media industries such as newspapers, magazines, books, radio, films, television, music recordings, public relations and advertising.

MALA 60053 - The Asian Enigma: Modern China and Japan (3)

An analysis of the civilization, culture and values of contemporary China and Japan with a view to explaining why each nation reacted so differently to Western impact and what each portends for America and the rest of the western world. The course stresses traditional Chinese and Japanese values, how they are manifested in everyday life as well as national and economic decision-making, and how these values are different from those held by most Americans.

MALA 60063 - Literature of the American Southwest (3)

The course will investigate the idea of a 'sense of place' by working toward a definition of the American Southwest. We will examine how authors evoke a distinctive sense of place by reading and discussing nonfiction books of travel (e.g., John Graves' Goodbye to a River or Richard Shelton's Going Back to Bisbee) and a range of fictional works representing several literary modes, ethnicity, and Southwestern perspectives.

MALA 60073 - The Impact of Computers on Society (3)

This is a non-technical introduction to what a computer is, how it functions, and how they are used in today's society.

MALA 60083 - Superheroes Across Global Contexts (3)

Prerequisites: Students must be enrolled in the MLA program. This course examines the phenomenon of superheroes across global contexts. Exploring the representation of superheroes helps students grasp their potential cultural function, how religious themes may factor in to those functions whereby to satisfy certain needs, and how those functions and needs may have changed across time.

MALA 60093 - The Literature of Survival: What Tales Teach Us about Living and Dying (3)

Students will read literature and watch films about survival of both everyday crises and life-threatening situations. They will write three papers on topics related to survival of such ordinary crises as divorce or job loss, survival in the outdoors, and the prospects of long-term survival of the human species. Students will examine factors, including personality traits, which either impede or enhance a person's ability to survive a variety of circumstances that put his or her confidence, sanity, or soul in jeopardy.

MALA 60103 - Artists at the Movies (3)

Prerequisites: Student must be admitted to the Master of Liberal Arts Program. This class examines social and cultural constructions of the artist and the art world. Through viewing film adaptations of artist's biographies and films depicting artists' lives and works, this class offers students the chance to explore art history, the genre of biography, the roles of the artist and art enthusiast in popular culture, and film theory. Throughout the semester, students will explore how authors draw from stereotypical and culturally-specific understandings of artists' roles when constructing their narratives. In addition, students will improve their ability to critique texts through closely looking at images, written texts, and film. By discussing historical precedents, this course also raises issues pertinent to current cultural ideologies, popular culture, and visual rhetoric.

MALA 60113 - Myths and Legends: North American Indian Thought (3)

Luther Standing Bear declares, The Indian, by the very sense of duty, should become his own historian, giving his account of the race - fairer and fewer accounts of the wars and more of statecraft, legends, languages, oratory, and philosophical conceptions. This course is a survey of the legends and myths and the cultural-agricultural practices of the North American Indian tribes and nations with a focus on the nature of the self (person; tribe), the world (nature; cosmos), and their interrelationship(s). These concepts are discussed and comparisons with Western philosophy are made when appropriate.

MALA 60123 - Global Persuasive Campaigns, Their Influence and Impact (3)

Global communications have created an international community exposed to persuasive campaigns, some advertising and some informational. This course will examine the influence and impact of global persuasive campaigns through an analysis of the structure of the campaign process and the use of images to create familiarity and experience. The ultimate impact and influence of such campaigns is highly variable, depending on the media in which they appear and the cultural context in which they are interpreted.

MALA 60133 - The Sociology of Deviant Behavior (3)

What is deviance? From a sociological perspective, deviance is a matter of social definition, interpretation, and reaction. This seminar examines the story of deviance, a story involving the struggle between rule breakers and those who seek to define them as outside normative boundaries. The goal is to introduce students to substantive topics and scholarly work within the sociology of deviance while providing an opportunity for discussion and critique. Special emphasis will be placed on the interactional dynamics involved in defining and managing deviance and the development of deviant careers.

MALA 60143 - Economics of Contemporary Issues (3)

Basic concepts and tools used by economists and applications of those tools to analyze contemporary economic and social issues will be discussed. Included among the issues will be drug prohibition, tax reform, Social Security, the minimum wage, and environmental protection.

MALA 60153 - Culture and American Cinema (3)

An exploration of cinema as a form of American social expression. As cultural artifacts, films are produced in specific historical contexts by and for cultural groups. Films produced for American audiences reflect American values, myths, and behavior and thus constitute an important form of social expression. We will examine movie genres and directors from the 1930s through present day to see how Hollywood's images of America changed over time.

MALA 60163 - American Film Genres (3)

This course examines Hollywood genre films from a cultural perspective. Genres such as the western, the musical, the science fiction film, and the crime film change over time, both reflecting and affecting the cultural attitudes of filmmakers and audiences. This course may be taught as an overview of several genres or as a specific analysis of one particular genre.

MALA 60173 - The Sacred and the Short Story (3)

Prerequisites: Enrollment in the MLA program. Participants in this class will read, discuss, and then appraise how selected creative writers use the short fiction genre to probe as well as investigate issues of religious meaning and spiritual significance - what we might call models of the sacred. This course will emphasize the history, theology, and practices of various and global religious traditions. Particular attention will be paid to how women and men imagine myth, ritual, and sacred power in the context of personal and social concerns. Students will tackle topics such as the meaning and endurance of faith; the problem of evil and suffering; the search for identity and integrity; and, several other themes.

MALA 60183 - After Dictatorship: Can Latin American Nations Achieve Democracy? (3)

The course challenges the facile assumption that because guerrilla wars have ended and the generals have turned power over to civilians, Latin America will necessarily go democratic." The course focuses on the peace processes in selected Latin American countries in order to explore the serious challenges that confront nations seeking to democratize when they are saddled with deep legacies of authoritarianism."

MALA 60193 - High Civilizations of the Americas: The Aztecs, the Incas, and the Maya (3)

An examination of the beginning, development, and decline of the three major aboriginal cultures of the Western Hemisphere. The total culture of each civilization will be explored including religious, social, economic, and military factors. Post-conquest developments will also be examined.

MALA 60213 - Contemporary Indigenous Literature of Mexico (3)

A study of literary works by outstanding, contemporary writers hailing from a variety of Mexican indigenous (Indian) ethnic groups: Nahuatl, Zapotec, Yucatec Mayan, Mazateco, Tzeltal, among others. The pre-Hispanic roots of this new literature will be examined, as will recurring themes and other ancient motifs which persist in today's writers. Short stories, poetry, and drama will be studied within their specific ethnic contexts, and also within a broader literary analytical framework. Recent English translations by Dr. Frischmann and his personal research experiences will make this course accessible to all MLA students.

MALA 60223 - Creative Writing: Advanced Fiction Writing (3)

As an advanced course in fiction writing, students will be expected to produce two full-length short stories of about 35-50 pages in length, or roughly the equivalent from a longer work. Shorter, more focused exercises on setting, plot, characterization, and theme will also be required. Additionally, students will also be required to read and respond to assigned readings and to each other's fiction. Since the class will be run as a workshop, supportive and constructive response to student writing is essential. This is a content-varies course and may be repeated once for credit.

MALA 60233 - Controversial Environmental Issues (3)

Our relationship with the Earth is changing at an unprecedented rate. The pace of change is accelerating not only from our advancing technology, but also from world population growth, economic growth, and increasingly frequent collisions between expanding human demands and the limits of the Earth's natural systems. It appears that catastrophe looms ahead unless major changes are made in a short period of time. Or does it? Fortunately, human beings are capable of changing their behavior and values, which are then reflected in changes in national and international priorities. Such changes happen when people are confronted with new information or new experiences. This is a discussion and debate style course. The objective is to introduce students to controversies in environmental policy and science. The

readings, which represent the arguments of leading environmentalists, scientists, and policymakers, reflect a variety of viewpoints and have been selected for their liveliness and substance. They are organized topically around major areas of study within environmental studies, and include environmental ethics, water resources, energy, global climate change, and population.

MALA 60253 - King Arthur Meets Queen Victoria: Arthurian Literature in the Victorian Age (3)

An examination of the roots of current American interest in Arthurian legend in Queen Victoria's reign. Students will read important literary works, including Alfred Lord Tennyson's *Idylls of the King*, William Morris's *Defense of Guinevere*, and Mark Twain, *A Connecticut Yankee in King Arthur's Court*, and explore the historical and political conditions surrounding the 19th-century medieval revival. The course concludes with a screening of *Excalibur* (1981) and discussion of its indebtedness to the Victorian era.

MALA 60263 - The US Economy: Analysis and Outlook (3)

The study of economics involves the learning of abstract theories about the workings of the economic system and the study of various policy tools that may be used to guide the economy toward specified targets. The course will focus on the historical development of the theories developed to explain our major economic issues, on the controversies surrounding these theories, and on the different policy conclusions that arise from different theories. The major economic issues on which the course will focus include inflation, unemployment, business cycles, economic growth and development, international trade deficits and surpluses, federal government budget deficits and surpluses, income distribution, and globalization.

MALA 60273 - Economic Policy and Its Impact: A Simulation Approach (3)

Computer simulation models will be used to learn important economic concepts and to analyze current economic problems. Students will assume the role of economic policymakers and as such will initiate policy changes and examine their effects on various aspects of the economy, such as the national output level, the inflation rate, the unemployment rate, and the distribution of income. No prior computer experience is necessary.

MALA 60283 - A World of Weather: Fundamentals of Meteorology (3)

Do you have a fascination with the Weather Channel? Are you interested in a non-mathematical treatment of the principles of meteorology and climatology? In this course, you will be introduced to the excitement of weather as it happens, by working current weather data delivered via the Internet. The course objectives are to develop a working understanding of general meteorological and climatological processes, develop an understanding of the spatial and temporal variability of these processes, and begin to understand how these factors influence the climate of a region. The course covers the composition and structure of the atmosphere, the flows of energy to, from, and through the atmosphere, and the resulting motions produced from small to planetary scales. The physical principles of atmospheric phenomena are stressed in the understanding of weather's impact on humans, particularly with severe weather, as well as climate change.

MALA 60303 - Seminar in Women's Health (3)

Explores holistic women's health in the contexts of history, culture, science. Examines the influence of race, gender, age, and class on women's embodied experiences and women's health. Reviews effect of oppression and influence of power and privilege on systems and processes. Analyzes the impact of social construction of gender on women as consumers and providers of health care. Reframes contemporary systems to challenge prevailing social values and actions; suggests alternative practices and research agendas. Promotes women's ownership and self-agency in naming misogyny, understanding health behaviors and selected problems; identifying choices in prevention and care. Introduces global considerations in women's health.

MALA 60313 - A New American Foreign Policy? (3)

What foreign policy issues are on the horizon for U.S. policy makers? What should our foreign policy be as we enter the post 9/11 era? How should that foreign policy be made, and by whom? The domestic political environment facing U.S. foreign policy makers changed first after the Vietnam War and then again after the September 11th attacks. With the demise of the Cold War, the external political environment changed as well. This course will examine the U.S. foreign policy on both the domestic and external levels. Domestically, the course

addresses the various governmental and non-governmental actors who combine to produce foreign policy. Externally, it examines problems that revolve around specific issues (like terrorism and homeland security, the promotion of democracy, foreign trade, etc.) or around particular countries (Afghanistan, Iraq, Russia, China, Mexico, Cuba, etc.).

MALA 60323 - The New South, 1877 - Present (3)

In this course the political, social and economic factors in the New South are examined with attention given to comparative regional history. Particular emphasis will be placed on historical interpretations, showing both the professional and lay image of the South in today's society. The economic modernization of the South will also be a major theme of the course.

MALA 60333 - War Stories: A Study Through Literature and Film (3)

Prerequisites: Enrollment in the MLA program from Homer's *The Iliad* to Tim O'Brien's *The Things They Carry* to Ben Fountain's *Billy Lynn's Long Halftime Walk*, we learn about humankind at war. We read of glory and victory. We read of death and destruction. We also gain insight into the hearts and minds of those involved, from the military men and women who fight and the family members who love them to the people in the societies caught in the center of the conflict. We see the struggles they face, hopefully, learning about not only history and the harsh realities of wartime but also the human condition. Thus, this class will focus on war stories, from the ancient past to the very present, fiction and non-fiction, from epic poems, novels, and films to narratives from the soldiers themselves. As we read the war stories and watch them emerge on film, we will analyze the content and discuss the impact not just on those involved but all of humanity.

MALA 60343 - Black Lives/White Law in American Literature (3)

Prerequisites: Enrollment in the MLA program. This course will examine how American literature from the 1800s to the present has explored the racial divide between African Americans and white authority. We will achieve a broad historical and political perspective by reading a range of genres, including fiction, nonfiction, and poetry composed by black, white, and biracial authors, with the purpose of using the literary tradition as a lens through which we assess the contradictory nature of American democracy and the vulnerable position of African-Americans within it. Our discussion will address slavery, abolition, segregation and Jim Crow laws, police brutality, the white gaze, white privilege, white guilt, cultural appropriation, racial passing, faith as propaganda, and the commonplace assumptions and fears about race, law enforcement, and national identity that have helped perpetuate the constraints of institutional racism in the United States.

MALA 60373 - The Social Psychology of Crime and Victimization (3)

This course introduces students to the central ideas in the field of social psychology and the significance of these ideas in providing explanations for criminal behavior and related phenomena. Additionally, classic social psychological theory and research are examined and utilized to understand offenders, victims and criminogenic environments. The course emphasizes the integration and application of course content to understand contemporary criminological issues such as the youth crime and violence, treating and controlling sex offenders, victim recovery and well-being, media influence on violence and aggression, and the nature of serial, mass, and family murder.

MALA 60403 - Global Geopolitics (3)

In a world subject to war, ethnic conflict, and economic disruption, to what extent does geography explain the unfolding of global events? How do access to waterways, the level of economic development, the blessings of natural defenses, and proximity to other nations determine the stance a country presents to the outside world? Geographer Dr. Jeffrey Roet will introduce geopolitical concepts that help explain conflict and change and show how geography is indeed the stage upon which history is set. He will reveal centuries-old patterns behind the dynamics of war, economic competition, and other current global concerns.

MALA 60423 - Modern Mexico: A Nation in Crisis (3)

The emergence of Mexico from colonial status to hemispheric leader and major force among third-world" countries. Considerable attention is devoted to the Revolution of 1910 and the ongoing revolutionary process it initiated. The role of the United States in the emergence of modern Mexico is discussed in detail. The course concludes with an extensive examination of Mexico's role as a major oil producer and the current financial and economic crisis with which the country is contending."

MALA 60443 - Contemporary Issues in Human Health (3)

From the human genome project and cloning to hormone replacement therapy and antibiotic resistance, new issues involving human health as science discovers more about the causes and treatment of human diseases increasingly confront us. Our ability to manage our health depends on our understanding and appreciation of the biological concepts underlying these issues. This course will examine some of these contemporary issues and the underlying biological concepts through readings from a variety of Web resources.

MALA 60483 - How the Civil War Was Lost: Problems in the Confederate High Command (3)

This course examines the issues and problems involved within the Confederate government in selecting and using generals and in developing and implementing national strategy during the Civil War. Topics include the personal role of Jefferson Davis, the influence of Robert E. Lee, the problematic service of Braxton Bragg, P.G.T. Beauregard, and Joseph E. Johnston, among others. We will also explore the controversies among Confederate leaders between offensive and defensive strategy and between Virginia the western theater of the war.

MALA 60533 - American Revolution: A Blessing or a Curse? (3)

Today's headlines report the failure of revolutions with their civil wars, ethnic massacres, and palace coups. What constitutes a successful revolution? What lessons are there in the American experience? General Washington's startling words in 1783 express his anxiety for the problems of American state-building and give the title to a course that will examine the origins of those problems in the protest to British imperialism, the War for Independence, and the post-war challenges leading to the creation of the federal structure under the Constitution.

MALA 60553 - Dilemmas in American Politics: Freedom, Order, Equality (3)

The class will examine the perennial dilemmas between Freedom, Order and Equality especially as they pertain to political ideology and public policy. To understand the dilemmas, we will examine the basic structure of our government with special attention paid to the structural tensions that augment this dilemma. Next we will look at how the dilemmas surface in contemporary debate among liberals and conservatives and how the dilemmas impact the definition of policies in the United States. We will be discussing and debating a number of current issues that pit these three valued ideals against one another to better understand the positions presented by advocates on both sides of the policy debates and to illuminate our personal positions and views.

MALA 60573 - Aesthetics of Film, TV, Radio Production (3)

Understanding how media texts are created. The course provides a behind-the-scenes look at film, television, and radio, guiding students to a thorough understanding of the technological and stylistic options available to producers and directors. These options, in turn, form the palate from which directors and others construct mediated texts--the images, sounds, and dramatic tensions necessary for the successful execution of theatrical film, television, and radio. Examples will be taken from current film, television, and radio programming. Aimed at an educated consumer of the media, this course requires no previous experience in the media arts.

MALA 60593 - Light, Color, and Space (3)

Human beings receive over 80% of their information about the spatial environment through vision. The mechanism by which this visual environment is revealed to us is light. It is the quality of that light, in all of its manifestations, that has inspired mankind for thousands of years. Ranging from the philosophical statement I see, which has more to do with the act of understanding than the process of seeing, to the psychological aspects of certain three dimensional visual illusions that work, based solely upon stored mental information on the location of our sun and the resultant cast shadows; light has both inspired and guided our relationships with the world that surrounds us. So strongly interwoven is this relationship that it passes for the commonplace. This course seeks to explore and clarify the inter-relationship between man and light. Individual/team investigations will concentrate on the use of light and color to create sophisticated themed environments. The TCU Center for Lighting Education will be used to support the actual demonstration of and investigations into the use of various types of electric lighting devised, ranging from simple track fixtures to computer controlled fixtures that can change color, lighting position, and pattern.

MALA 60613 - Literature and Film: The Art of Adaptation (3)

Time and again filmmakers turn to literature for inspiration; we have become accustomed to seeing favorite works of literature translated for

the screen. This course will ask you to move past the initial reaction--Is the film better than the book, or vice versa?--to analyze the methods used in adaptation. How does each medium establish characters, develop mood and atmosphere, communicate emotions and thoughts? Furthermore, the course will examine how adaptations have been influenced by factors such as changing cultural attitudes and censorship.

MALA 60633 - The Role of Capital: Business Cycles, the Stock Market, Federal Funding, and Economic Development (3)

This course explains the factors affecting domestic economic growth, the business cycle, the stock market, social security financing, federal debt financing, and third world development. It does so by focusing on a common theme throughout: the role of capital (physical and financial). As an economics course, emphasis is on policy questions rather than investment or business planning.

MALA 60643 - Contemporary Economic Controversies (3)

Prerequisite: admitted into MLA program. The ignorance surrounding economic issues in our country is frightening. One regularly sees misstatements in the press regarding such important concepts as Social Security, the national debt and deficit, unemployment, the business cycle, the stock market, and inflation. The goal of this course is to explain these and other economic phenomena in clear terms that the non-economist can easily understand.

MALA 60653 - The People's Choice: American Presidents (3)

A history of the issues, conflicts and personalities in the development of the American presidency. An examination of twelve selected presidential administrations from George Washington to the modern presidency will be conducted.

MALA 60673 - The Jerusalem Jackpot: Understanding Israeli-Palestinian Conflicts (3)

The struggle for control of Jerusalem and surrounding territories has made violence between Jews and Arabs a recurring phenomenon since the 1920s. The 1948 creation of an independent Israeli state only exacerbated the violence. This course examines contemporary conflict issues between Israelis and Palestinians against the context of a history of past conflicts. Focal points for the course are the underlying reasons for these conflicts, their conduct and resolutions to date, and the various efforts to promote a more lasting peace between Israelis and Palestinians.

MALA 60693 - The Satiric Vision: From Jonah to Doonesbury (3)

Study of the literary art of satire, including forms of satire, angles of satiric vision and examination of chief satirists' works and techniques.

MALA 60713 - The History of War (3)

In this survey we will seek to understand the influence of war in human history from ancient times to the present. This course will trace the causes and effects of war, the evolution of military technology, and the role played by leadership. To highlight these, we will discuss decisive military battles throughout history. Hopefully, by examining this process we will be able to understand ourselves and our world a little better.

MALA 60793 - Public Health: Current Biological Issues (3)

The course examines current biological issues in Public Health through lectures, readings, class discussion and debate. Issues such as vaccines, food safety, use of genetically modified plant crops, environmental toxins, bioterrorism and emerging diseases are examined.

MALA 60803 - Pax Americana: United States Foreign Relations in the Twentieth Century (3)

Now that the Cold War is over and the 20th century is coming to a close, how well did the United States fulfill its destiny of making the past hundred years the American Century" that so many Americans predicted in the 1890s? This course offers some perspectives as answers by tracing the development of a global American foreign policy from the period following the Spanish-American War until the end of the Cold War. It also examines the forces - both foreign and domestic - that influenced those policies as the United States tried to formulate new diplomacies to meet each of the ever changing challenges in world affairs of this most dynamic century."

MALA 60903 - British Humor from the Goons to the Young Ones (3)

British humor as exemplified in popular culture by Monty Python's Flying Circus has gained recent acceptance in U.S., but is actually based on a long tradition that has its roots in the special love of wit, puns, paradoxes, and epigrams the English have manifested since the Viking invasions. Even though sensing the laughable and absurd is a universal

trait, humor is expressed according to cultural differences and values of class, education, or special interest. Students in the course will look at British Humor on radio, TV, and film and attempt to define its unique attributes.

MALA 60953 - Modern Astronomy: From the Origin of the Universe to Black Holes (3)

A non-mathematical introduction to recent developments in astronomy and astrophysics: how the Universe began and how will it end, the age of the cosmos, the origin of galaxies, the birth, life and death of stars; stellar and galactic black holes, millisecond pulsars, supernovae, comets, and quasars, and the worlds of the solar system. Questions to be pondered include: Where and what is the missing mass? Is there intelligent life elsewhere in the Universe? Are we in danger from a comet or meteor colliding with earth? Where and how did life originate? The latest discoveries by the Hubble Space Telescope, Cassini-Huygens, and other space missions are also discussed.

MALA 60970 - Special Problems (3)

Special problems in Liberal Arts.

MALA 61013 - Themes in Prehistory: Fossils, Dinosaurs and Humans (3)

Dinosaurs have held the public imagination for almost 200 years now. Beyond an intrinsic interest in animals that lived in an unimaginably distant time, dinosaurs and dinosaur paleontology figured greatly in the development of concepts of geologic time and biology from the Renaissance on and are still centered in the public's appreciation of 'science'. This course will take students through a tangled web of emergent concepts of time, organisms and 'public relations' through the last 300 years or so, focusing on the tangible and intangible impressions that dinosaurs have made on modern civilizations.

MALA 61023 - The Abortion Debate (3)

Abortion has been a highly controversial subject in American culture since the 1960's, and it will remain so for the foreseeable future. This course will examine this complex issue from various angles: medical, psychological, philosophical, legal, and religious.

MALA 61033 - Dilemmas in American Politics: Freedom, Order, Equality (3)

The class will examine the perennial dilemmas between Freedom, Order and Equality especially as they pertain to political ideology and public policy. To understand the dilemmas, we will examine the basic structure of our government with special attention paid to the structural tensions that augment this dilemma. Next we will look at how the dilemmas surface in contemporary debate among liberals and conservatives and how the dilemmas impact the definition of policies in the United States. We will be discussing and debating a number of current issues that pit these three valued ideals against one another to better understand the positions presented by advocates on both sides of the policy debates and to illuminate our personal positions and views.

MALA 61043 - Chinese Foreign Policy (3)

This course will examine China's foreign relations from the founding of the People's Republic of China (PRC) in 1949 to the present. We will explore the theories and concepts involved in the study of foreign policy, followed by an in-depth examination of the domestic factors shaping China's foreign policy goals and implementation.

MALA 61053 - Parapsychology: Weighing the Evidence (3)

The field of parapsychology includes phenomenon such as telepathy, clairvoyance, psychokinesis, ghosts and hauntings, spirit communication, and near-death experiences. The claim by many parapsychologists is that these paranormal occurrences have been studied with rigorous research methods, and that there is considerable evidence to support their existence. This course will weigh the evidence for parapsychology by tracing the history of psychical research from the dawn of spiritualism to the present day use of the ganzfeld technique. We will discuss the careers of famous psychics as well as the contributions of many noted parapsychologists. The methods and results from parapsychological studies will be evaluated in the context of the approaches used by researchers in the natural sciences. This course will address the following important issues: are testimonials useful evidence to support the existence of these phenomena; do fraudulent claims preclude acceptance of the field; can parapsychological research findings be replicated; do probability and chance help explain paranormal events; how have magicians and skeptics affected the perception of parapsychology in the scientific community and the general public. The objective of this course is to present perspectives from both believers

and skeptics such that in the end, each student can make up his/her own mind as to the strength of the evidence.

MALA 61063 - Light, Color, and Space (3)

Human beings receive over 80% of their information about the spatial environment through vision. The mechanism by which this visual environment is revealed to us is light. It is the quality of that light, in all of its manifestations, that has inspired mankind for thousands of years. Ranging from the philosophical statement I see, which has more to do with the act of understanding than the process of seeing, to the psychological aspects of certain three dimensional visual illusions that work, based solely upon stored mental information on the location of our sun and the resultant cast shadows; light has both inspired and guided our relationships with the world that surrounds us. So strongly interwoven is this relationship that it passes for the commonplace. This course seeks to explore and clarify the inter-relationship between man and light. Individual/team investigations will concentrate on the use of light and color to create sophisticated themed environments. The TCU Center for Lighting Education will be used to support the actual demonstration of and investigations into the use of various types of electric lighting devised, ranging from simple track fixtures to computer controlled fixtures that can change color, lighting position, and pattern.

MALA 61073 - The Supreme Court's Greatest Hits (3)

The Supreme Court's Greatest Hits is an online course featuring student/professor analyses of selections from the most important decisions of the United States Supreme Court in the last fifty years. The topics to be covered during the term include: 1) Freedom of expression, 2) Freedom of religion, 3) Reproductive Freedom, 4) Discrimination based on gender, 5) Discrimination based on sexual orientation, 6) Pornography and the legal test for obscenity, and 7) Highlights from the criminal justice system. Student discussion leaders will be assigned to lead threaded discussions for each of the cases we study.

MALA 61083 - The Wild West (3)

Was the west wild? When? To whom? Who tamed it? This course will wrestle these and other questions by surveying the history of the trans-Mississippi West from contact to the present (possibly into the future) and considering the significance, or insignificance, of frontiers in American History. Students will read a textbook and analyze the West through extensive use of web sites and popular cultural artifacts.

MALA 61093 - Profiles in Courage: Cinematic Studies of Greatness (3)

This MALA course capitalizes on great films to investigate the lives of people who achieve greatness. Films such as Amadeus, Braveheart, Glory, Lawrence of Arabia, Patton, and Schindler's List are used as laboratories for studying the principles of greatness as played out in the lives of heroes, creators, commanders, and statesmen. Although the domains of greatness vary, from music to politics to the battlefield, many of the essential ingredients are the same. Chief among these is courage, which Ernest Hemingway defined as grace under pressure.

MALA 61103 - Psychology of Sex, Violence and Aggression (3)

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.

MALA 61113 - American Stages: A History of Theatre in the United States (3)

The United States has a rich theatrical and dramatic heritage often hidden in the shadow of our colonial connection to England and dismissed by the Puritan ideology and ethics that formed the basis of our government. This web-based course shall explore that rich heritage through an in-depth look at the people, historical situations and the drama literature that reflected the growth of this country from our colonial beginning to its maturity as a world leader in the 20th century.

MALA 61123 - Global Persuasive Campaigns, Their Influence and Impact (3)

Global communications have created an international community exposed to persuasive campaigns, some advertising and some informational. This course will examine the influence and impact of global persuasive campaigns through an analysis of the structure of the campaign process and the use of images to create familiarity and experience. The ultimate impact and influence of such campaigns is

highly variable, depending on the media in which they appear and the cultural context in which they are interpreted.

MALA 61133 - Aspects and Issues: Health Care Delivery (3)

The course examines the various aspects of health care delivery in the United States and other countries. The course will provide the student with a critical analysis and overview of health care delivery focusing on factors impacting its access, quality and cost.

MALA 61143 - Mass Media and Society (3)

As the presidential election campaign gets into full swing, the role of the media will become increasingly important as news coverage, presidential debates, and election advertising bring this important issue to the public. Mass Media and Society will examine not only the presidential campaign, but also the impact of media on individuals, institutions, and community. Participants in this course will probe how and why the media developed the way it did, where the media is today, and where the media seems to be heading in the age of information. The class will explore the cultural context and norms of major media industries such as newspapers, magazines, books, radio, films, television, music recordings, public relations and advertising.

MALA 61153 - Texas Political Leadership: Case Studies from the 20th Century (3)

During the 20th Century and now into the 21st, Texas provided a large share of national leadership in the United States and had some groundbreaking participants in the political change of that century. In this class, we will examine ten of those political figures, including the five chamber leaders of the House from Texas (Speakers Garner, Rayburn, and Wright and Majority Leaders Arme and DeLay), the three presidents from Texas (Johnson, Bush, and Bush) and the two Supreme Court associations (Associate Justice Tom Clark and prospective Justice, as of this writing, Harriet Miers). We will also examine the politics of the 1960's and early 70's as Texas made the transition from a one party Democratic state to a Republican dominated state. The focus will be on techniques of political leadership and how they changed over the course of the 20th Century and into the 21st.

MALA 61163 - Ethnicity and Language (3)

Prerequisites: Enrollment in the MLA program. 'Sticks and stones may break my bones but words will never hurt me.' Words do hurt as we full know because language is neither innocuous nor value neutral, especially in the process of constructing identities. Language's form as stereotype constructs and reflects the representations of others. Its discourse of difference and humiliation as an ethno-typing strategy presumes superiority of one ethnic group (e.g. Israel and Euro-American) over another. And these stereotypes proliferate throughout culture and time via diverse media, including the Bible, itself a cultural artifact. Probing the seams of the representation strategy of stereotyping in its diverse media, however, reveals the identity of 'self' reflected within 'other' while simultaneously ascribing a voice often left silenced to the 'other' in its own identity construction. This course explores the representation process through stereotyping by means of paired ethnic groups, past (e.g. Edomites, Moabites, Ammonites, and Samaritans) and present (e.g. Native, Latina/o, Asian, and African Americans).

MALA 61173 - Troubled Neighbors: US and Latin America (3)

This course focuses on the imbalance of power that has existed historically between the United States and Latin America and the hemispheric problems that have resulted from that imbalance. From the Monroe Doctrine in 1823 to the military intervention in Haiti in 1994, the United States has asserted a leadership role in the hemisphere, often with little understanding of the impact its actions had on the less-powerful nations of Latin America. Most of the course is devoted to the 20th Century, and major issues are examined from both the U.S. and Latin American perspectives.

MALA 61183 - Red, White and Green: United States Environmental History (3)

This course will examine American history from the perspective of the complex relationships between humans and their environment from pre-literate times through the 21st century. Geographically, the course will be bounded by the limits of the present United States. During the term, we will address the following questions: How did the environment shape American history and influence various American societies? How have conceptions of the environment changed? Do humans interact with the environment any differently now than they did 600 years ago? How have environmental concerns shaped politics and political movements?

MALA 61193 - Health Care and the Quality of Life (3)

The course will examine the state of health care in the United States and explore how quality is defined in light of it. A brief overview of the structure and processes of health care delivery will be presented followed by a review of the various methods for defining and establishing quality in health care in our society. The role and influence of health care providers (medical and insurance companies) on individual choices will also be examined. Specific issues facing society related to health care decision-making will be reviewed and then related to how and who interprets the concept quality.

MALA 61203 - Romantic Attractions and Close Relationships (3)

Teaches students how to think critically about psychological research on romantic attraction and close relationships. The course goal is to educate intelligent consumers of media information and misinformation, teaching them to separate scientifically valid from invalid claims about the causes and consequences of initial romantic attraction, deepening close relationships, sex differences, problems that occur within close relationships, and effective versus ineffective strategies for resolving conflicts in close relationships.

MALA 61213 - Novel Writing 101:Form, Theory, and Practice of the Novel (3)

This course is for students who have wanted to write a novel for a long time (or who have recently come up with an idea for a novel) and who want to stop dreaming about it and start writing. Students who take this course will compose three chapters (15-20 pages each) of a first novel and do a detailed outline of the remaining chapters. Students will read selected work about creative writing, particularly about novel writing, including Ann Lamott's *Bird by Bird: Some Instructions on Writing and Life*, John Rember's *MFA in a Box*, and John Gardner's *On Becoming a Novelist*.

MALA 61223 - Native Americans and the Environment (3)

In recent years several studies have refuted the pristine myth or commonly held view that indigenous societies in the Americas had minor impact on their natural environments. Rather than living in harmony with nature indigenous peoples typically altered their environments, often extensively. In some cases, the results of these modifications are still visible today. This course examines the multiple ways indigenous peoples of the Americas modified their natural environments past and present. Specific themes include: settlement impact on the environment; the role of population growth and decline; environmental perception through place naming; indigenous mapping of their environments; and, environmental modification through agriculture (the creation of Amazonian dark soils, terracing, raised fields, etc.). Finally, the course will analyze and evaluate current efforts in the Americas to preserve the environment by protecting indigenous lands through participatory mapping.

MALA 61233 - Controversial Environmental Issues (3)

Our relationship with the Earth is changing at an unprecedented rate. The pace of change is accelerating not only from our advancing technology, but also from world population growth, economic growth, and increasingly frequent collisions between expanding human demands and the limits of the Earth's natural systems. It appears that catastrophe looms ahead unless major changes are made in a short period of time. Or does it? Fortunately, human beings are capable of changing their behavior and values, which are then reflected in changes in national and international priorities. Such changes happen when people are confronted with new information or new experiences. This is a discussion and debate style course. The objective is to introduce students to controversies in environmental policy and science. The readings, which represent the arguments of leading environmentalists, scientists, and policymakers, reflect a variety of viewpoints and have been selected for their liveliness and substance. They are organized topically around major areas of study within environmental studies, and include environmental ethics, water resources, energy, global climate change, and population.

MALA 61243 - Ecological Principles of the Earth (3)

This course will explore many aspects of the ecology of the earth. Ecology is the study of the interaction of organisms with their environment. The environment includes both physical (global air patterns, soils, etc.) and biotic (competition, predation, etc.) parameters. Specifically, the course will explore the paleohistory of the earth, biomes of the world, the physical forces of today's biosphere, the dynamics of natural communities and populations, and the global effects of man's presence on planet earth.

MALA 61253 - Creative Writing: Advanced Fiction Writing (3)

As an advanced course in fiction writing, students will be expected to produce two full-length short stories of about 35-50 pages in length, or roughly the equivalent from a longer work. Shorter, more focused exercises on setting, plot, characterization, and theme will also be required. Additionally, students will also be required to read and respond to assigned readings and to each other's fiction. Since the class will be run as a workshop, supportive and constructive response to student writing is essential. This is a content-varies course and may be repeated once for credit.

MALA 61263 - The US Economy: Analysis and Outlook (3)

The study of economics involves the learning of abstract theories about the workings of the economic system and the study of various policy tools that may be used to guide the economy toward specified targets. The course will focus on the historical development of the theories developed to explain our major economic issues, on the controversies surrounding these theories, and on the different policy conclusions that arise from different theories. The major economic issues on which the course will focus include inflation, unemployment, business cycles, economic growth and development, international trade deficits and surpluses, federal government budget deficits and surpluses, income distribution, and globalization.

MALA 61273 - Ethics, Mental Health & Society (3)

Contemporary approaches to the study of mental health emphasize disorders of the brain as the source for abnormal thinking and behavior. This course examines the ethical considerations inherent in this approach as it applies to the development of new treatments. The major objectives of the course include: an understanding of the journey from basic to clinical research; a familiarity with the ethical issues surrounding animal and human clinical research; the challenges that come with industry-sponsored research; and the ethical concerns with proposed treatments for psychological disorders in the future that may include cloning, gene-therapy, and stem cell research.

MALA 61283 - A World of Weather: Fundamentals of Meteorology (3)

Do you have a fascination with the Weather Channel? Are you interested in a non-mathematical treatment of the principles of meteorology and climatology? In this course, you will be introduced to the excitement of weather as it happens, by working current weather data delivered via the Internet. The course objectives are to develop a working understanding of general meteorological and climatological processes, develop an understanding of the spatial and temporal variability of these processes, and begin to understand how these factors influence the climate of a region. The course covers the composition and structure of the atmosphere, the flows of energy to, from, and through the atmosphere, and the resulting motions produced from small to planetary scales. The physical principles of atmospheric phenomena are stressed in the understanding of weather's impact on humans, particularly with severe weather, as well as climate change.

MALA 61293 - Leadership: An Historical and Literary Study (3)

This course examines a broad spectrum of leadership issues through the study of historical and literary (both fictional and non-fictional) leaders in a wide variety of societies and historical eras. The study uses movies to provide multiple contexts in which to understand and apply academic leadership theories. By doing so, the course challenges the student to view leadership from multiple perspectives (theoretical, as well as contextual.) Be aware that this is a totally on-line course, but it is NOT self-paced. Each week, there are activities that must be completed by specific due dates. Students are required to choose their preferred method of accessing movie (e.g., Netflix, Amazon, iTunes, etc.) The TCUGlobal site does not provide access to the movies. Students are advised to make plans, early in the semester, for access to the required movies to ensure they have access when the required movie is scheduled.

MALA 61303 - Vietnam in War and Revolution (3)

This course examines the causes and consequences of war and revolution in 20th century Vietnam. Concentrating on major events such as the Vietnamese anti-colonial movement, the 1945 August Revolution, Ho Chi Minh and Vietnamese Communism, the Franco-Viet Minh War, the roots of the U.S. involvement and the American War in Vietnam, students explore modern Vietnamese history from a variety of perspectives: Vietnamese, American, French, and Chinese. Course requirements include assigned readings, book and film critiques, a webliographic essay, and participation in threaded discussion.

MALA 61313 - British Music and Memoir (3)

Prerequisites: Enrollment in the MLA program. This course focuses on British music and memoir as contemporary experiences from the edge in the interpretation and analysis of music, text, and multimedia as cultural and artistic production. Music is a universal form of expression that can form a bond between people in transcending markers of race, gender, class, and ethnicity. It is in this sense that we will focus on music artists that have arisen from marginalized or edge areas of existential and cultural, social, national angst and that have given acute expression to the human experience. We will also contemplate how British music artists have provided very different expressions on issues of social oppression and ostracism within creating a voice for personal, cultural, social, and national liberation.

MALA 61323 - The New South, 1877 - Present (3)

In this course the political, social and economic factors in the New South are examined with attention given to comparative regional history. Particular emphasis will be placed on historical interpretations, showing both the professional and lay image of the South in today's society. The economic modernization of the South will also be a major theme of the course.

MALA 61333 - Terrorism at Home and Abroad (3)

This course introduces the graduate students to the practices of terrorism--international and domestic--along with the history and motivations behind it. Particularly, the course will provide insight into terrorism from a historical, geographical, cultural, and ideological basis. Strategies to combat terrorism will also be explored. After completing this course, students will not only be familiar with a variety of terror groups and terrorist acts that have made the news, but will also have a deeper understanding of the hostilities and conflicts which give birth to terrorism around the world and at home.

MALA 61343 - David Bowie: Persona, Music, and Meaning (3)

Prerequisites: Enrollment in the MLA program. This course focuses on the music and cultural icon David Bowie. Bowie's career spanned more than fifty years in the 20th and 21st centuries and his impact on music and culture is indelible. We will consider the personas or alter egos and eras of David Bowie in the interpretation and analysis of his music through text, screen, stage, fashion, art, and other cultural dynamics. In the early part of Bowie's career, such personas as Ziggy Stardust, Aladdin Sane, Major Tom, and The Thin White Duke are easily recognizable, yet in the latter part of his career it is much more difficult to ascertain a distinct persona or alter ego that he is inhabiting through his music and in the genres that he is working in. In this course, we will closely analyze Bowie's music in the interpretation of his personas and eras in considering the impact and meaning of his music on culture and the human condition.

MALA 61353 - Translation in Society (3)

Students in this course will not only study translation but they will also actually translate. For example, they will learn early on how a recent winner of the most prestigious international prize for the translation of a work of fiction is but a novice and not even a speaker of the language she was translating from. Students go on to investigate theories of translation as applied to a wide range of different genres of texts and communication situations; in addition, they review critically the varied and most valued practices of translating. During the course, then, the students will work with one another on individual or group translation projects of their choosing. By the end of the semester, the students will be such experts on translation in society that they themselves will confidently enter their own work in a university-sponsored translation prize contest judged by a world-renowned translator.

MALA 61363 - Black Skin 2 Silver Screen (3)

Students will read African American literary works by and about African Americans that have been adapted into different media, from the written texts of poetry, drama, and fiction to the visual texts of photography and film. Students will assess whether the adaptations clarify, distort, or contribute to the original themes of African Americans surviving in an oppressive culture, and will regard how the conventions of a medium affect a difference. Adopting the critical vernacular of each genre, students will articulate the strengths of adaptation versus the weaknesses of appropriation, as well as scrutinize stereotypical and production-safe representations and tropes in light of unique and daring originality. Our discussions will address sensitive racial issues as diverse as slavery, segregation and Jim Crow laws, Black Lives Matter, the ethical nature of sharing self-deprecating and race-undermining truths, and white privilege.

MALA 61373 - The Social Psychology of Crime and Victimization (3)

This course introduces students to the central ideas in the field of social psychology and the significance of these ideas in providing explanations for criminal behavior and related phenomena. Additionally, classic social psychological theory and research are examined and utilized to understand offenders, victims and criminogenic environments. The course emphasizes the integration and application of course content to understand contemporary criminological issues such as the youth crime and violence, treating and controlling sex offenders, victim recovery and well-being, media influence on violence and aggression, and the nature of serial, mass, and family murder.

MALA 61383 - The Politics of Emergency Management (3)

This course will introduce students to the impact of natural and man-made disasters on society, as well as the principles and practices of modern emergency management efforts in the United States. This includes efforts in planning for disasters, mitigating disasters, responding to them, and recovering from them. An emphasis is placed on the role that FEMA and the Department of Homeland Security play in the process.

MALA 61393 - The Literature of Survival: What Tales Teach Us about Living and Dying (3)

Students will read literature and watch films about survival of both everyday crises and life-threatening situations. They will write three papers on topics related to survival of such ordinary crises as divorce or job loss, survival in the outdoors, and the prospects of long-term survival of the human species. Students will examine factors, including personality traits, which either impede or enhance a person's ability to survive a variety of circumstances that put his or her confidence, sanity, or soul in jeopardy.

MALA 61403 - Anti-Semitism & Islamophobia (3)

The roots of contemporary anti-Semitism and Islamophobia within the US extend beyond the colonial era. Both ideologies have been expressed malignantly at times, but it's the seemingly benign satirical cartoons that have perhaps had the most insidious effects by firmly entrenching and perpetuating stereotypes of Jews and Muslims on a personal and social level which have, in turn, given rise to prejudicial and violent racist behavior. This biting satire targeting Jews and Muslims has left deep sores that have never completely healed due to the constant 'picking at.' This course will closely examine samplings of this graphic satire as it traces the in/decrease of anti-Semitic and Islamophobic expressions throughout US history and critically addresses any underlying religious, economic, racial, and political dimensions.

MALA 61423 - Modern Mexico: A Nation in Crisis (3)

The emergence of Mexico from colonial status to hemispheric leader and major force among third-world" countries. Considerable attention is devoted to the Revolution of 1910 and the ongoing revolutionary process it initiated. The role of the United States in the emergence of modern Mexico is discussed in detail. The course concludes with an extensive examination of Mexico's role as a major oil producer and the current financial and economic crisis with which the country is contending."

MALA 61523 - Importance of Plants in Our World (3)

Aspects of plants that make them useful to people from an economic and social perspective. The structure, chemistry, genetics and ecology of plants are examined. Products derived from flowers, seeds, fruits, stems, leaves and roots are analyzed in light of past, present and future needs of the world community.

MALA 61533 - American Revolution: A Blessing or a Curse? (3)

Today's headlines report the failure of revolutions with their civil wars, ethnic massacres, and palace coups. What constitutes a successful revolution? What lessons are there in the American experience? General Washington's startling words in 1783 express his anxiety for the problems of American state-building and give the title to a course that will examine the origins of those problems in the protest to British imperialism, the War for Independence, and the post-war challenges leading to the creation of the federal structure under the Constitution.

MALA 70013 - Men, Women and Society: A New Definition of Roles (3)

An examination of new ideas, data and theories to interpret changing roles of men and women in contemporary society.

MALA 70063 - Light and Human Health (3)

This course examines the relationship between light and human health. Topics will include: the aging visual system, light and the circadian system, yellow jaundice, vitamin D deficiency. A specific focus of the course will be hands on" experiences of light as it is used for human health."

MALA 70073 - Energy Resources, Alternatives, and Environmental Issues (3)

A study of the distribution of the world's energy resources and a look at alternative sources of energy such as wind, tides, geothermal, synfuels, solar and nuclear power. Environmental issues including air and water pollution, solid waste, pesticides, toxic substances, etc., will be addressed as will new techniques for finding and evaluating earth resources utilizing satellite data and the internet.

MALA 70113 - Native Peoples of the American Southwest (3)

An overview of the Native Americans of the region from pre-contact times to the present. Relations and differences among native groups are emphasized as well as interactions with non-Indian groups. Efforts to whiten" the native population ranging from Spanish missionary activities in the 16th century to the federal government's "termination policy" in the 1950s are analyzed."

MALA 70133 - Contemporary Mexican Novels and Their Film Versions (3)

This course examines three contemporary Mexican novels--The Old Gringo (1985), Like Water for Chocolate (1989), and Esperanza's Box of Saints (Santitos) (1999) and the film version of each book. We will discuss how the works treat crossing borders, and how society is presented differently in the two mediums--novel and film. Each work also studies the similarities and differences of the two countries (cultures) that seem destined to coexist, according to Alan Riding, as distant neighbors.""

MALA 70183 - Mass Media and Perceptions of Reality (3)

The complexity of our society makes it necessary for us to draw what we know, or think we know, from information about events, trends, and even people from the mass media. Yet few people are trained as consumers of information produced by the media. This course examines the various perceptions of reality that the mass media create, exploring some of the reasons why these perceptions occur.

MALA 70233 - Rise of American Business (3)

The evolution of the American business system is examined with emphasis on four basic themes: the impact of technological and managerial change, the interaction between business and society, the position of the businessman and businesswoman in society, and the constantly-changing relationships between business and government. Special attention is devoted to the contemporary business scene.

MALA 70253 - War To Peace: Political Change in Cuba and Central America in the 1990s (3)

An examination of the dramatic but low profile political transition taking place in countries that only recently were torn by revolution and by counterinsurgency wars. The original causes of those revolutions, including the Cold War ideological divisions that formed the international environment in which they took place will be discussed. We will examine the tentative, fragile steps that are presently being taken to overcome the authoritarian and violent political legacies of the past and to build a more inclusive, democratic political future.

MALA 70373 - Modern American Society: Global Power since World War II (3)

This period course in American history reviews major political, economic, social, cultural and diplomatic events: World War II, the Truman administration and post-war America, the Eisenhower administration and the consensus of the 1950s, the Kennedy administration, Lyndon Johnson and the Great Society, the civil rights movement, the Republican ascendancy, and the rise of southern power.

MALA 70393 - Religion and Violence (3)

This course explores the highly ambiguous relationship between religion and violence. It provides an overview of situations in the world today that are examples of this ambiguous relationship. Ethical teachings regarding violence in Judaism, Christianity, and Islam are examined. Students are exposed to authors who seek to comprehend violent behavior using explanatory theories. Responses to 9/11/2001 written by a Jew, a Christian, and a Muslim are encountered. The goal is to allow students in the course to develop an understanding of various

dimensions (ethical, social, psychological, political, and theological) of the relationship between religion and violence.

MALA 70453 - Religious Cults, Sects, and Millennialism (3)

This course provides cross-cultural perspectives on the rise, growth, decline, and societal impacts of a variety of historical and modern religious movements. Class discussions, readings, and audiovisuals focus on selected cases of religious movement in various regions of the world. Topics include the roles of movement prophets, movements' processes of resocialization, and how cults and sects relate to broader struggles over meaning and social identity. The student will gain critical insights into five major areas of inquiry into religious movements: 1) Conditions that lead to the rise of new religions, 2) how beliefs in end-of-the-world (millennialist) scenarios evolve, 3) dynamics of recruitment and conversion, 4) daily life inside religious movements, and 5) problems of doing research in the absolutist sectarian setting.

MALA 70473 - Sinatra and Popular Culture (3)

This course focuses on the cultural importance of Frank Sinatra, one of the most influential figures in 20th century entertainment. The course examines the Sinatra of recorded music, radio, Hollywood movies, and Las Vegas, politics, and organized crime. Through music, movies, and documentaries, the course explores the changing cultural landscape in the US from the 1930s through the 1980s.

MALA 70493 - Do the Right Thing: Ethics in International Politics (3)

The course examines the central question in international politics: What is the 'right' course of action in a given situation? Thus it considers various approaches to the study of ethics and morality as well as the ends pursued, the means used, and the importance of the decision-making strategies employed by policy makers.

MALA 70543 - Fossils and Man: The Impact of the Fossil Record (3)

Students will become acquainted with the impact that fossils and paleontology have had on the history of the earth. It was the fact that fossils were finally accepted as a record of ancient life that began to change the way that 17th century naturalists looked at the world. The fundamental notions of change and evolution of natural systems has forever affected man's view of the world and fossils, which, in particular, document worlds before man. The history of interpretation of fossils in the argument for evolution, and the use of fossils in modern biology and geology will be examined.

MALA 70583 - Understanding Laughter: Humor in Theory and Practice (3)

Students who take this course will explore not only the theories that purport to explain why people laugh but also a number of practical, social, rhetorical, and psychological uses for wit and humor. The work of the course will revolve around readings of works about humor, analyzing works of humor, and writing essays related to this topic, including one essay in which students attempt to write humorously and then, using several theories of humor, analyze to what extent they have succeeded or failed.

MALA 70613 - History Through Literature and Film: Latin America (3)

This course covers both colonial and national periods of Latin American history through a combination of historical readings, fiction, and full-length feature films and videos. It aims at providing an overview of the past from the late fifteenth century to the recent present. Important institutions, processes, and themes will be studied. Students are presumed to have little or no knowledge of Latin American history and knowledge of the Spanish language is not required. Students will read both primary and secondary accounts of the events covered in the films and will be asked to assess the films in light of historical facts and interpretation and poetic license.

MALA 70653 - The Second World War: Its Impact on the Contemporary World (3)

A focus on the impact of World War II as the seminal event of the 20th century that gave rise to or influenced most major contemporary global issues. By examining the war in a broader perspective, issues such as the East-West balance of power, the end of traditional imperialism, the upheavals in the third world, and the proliferation of technology, the effect of the war 50 years later can be better understood and interpreted.

MALA 70673 - American Cinema: Film Noir and the Detective Film (3)

This course examines the cultural, narrative and critical impact of literary and cinematic forms of Film Noir and the Detective Film in the United States. The course introduces the student to the technical and aesthetic

processes used in developing the style and form found in the American Cinema since 1941.

MALA 70683 - The American Recording Industry: Technology and Cultural Impact (3)

This course explores how the American popular music and recording industries and American popular culture have intersected in the years since the invention of audio recording and the impact of recorded music on the culture.

MALA 70693 - Creative Writing: Life Writing (3)

Students who take this course will write three full-length pieces (8-12 pages each) of creative nonfiction based on incidents that have occurred in their lives. Students will read selected works of creative nonfiction and from three textbooks on writing (Ann Lamott's *Bird by Bird: Some Instructions on Writing and Life*, Phillip Lopate's *The Art of the Personal Essay*, and Mary Catherine Bateson's *Composing a Life*.) The work of the course will revolve around writing the three pieces, reading and responding to fellow students' pieces online, and analyzing reading assignments from the textbooks.

MALA 70703 - American Music and Culture: From Jazz to Tin Pan Alley (3)

A study of the historical evolution of jazz styles in the United States from the 1890s through the contemporary scene, including American popular music Tin Pan Alley, protest music, and motion picture/television music. Included is an examination of the correlation of musical styles and cultural changes in America.

MALA 70713 - Physical Fitness as a Lifestyle (3)

The physiological changes that take place in the body as a result of acute and chronic exercise. Specifically, the concepts of physical fitness, conditioning programs, wellness, body composition, nutrition, risk factor reduction and the influence of exercise on disease and aging are investigated.

MALA 70733 - Science, Scientists and Society (3)

Science, Scientists and Society is a cross-disciplinary course in the natural sciences. It will acquaint you with the workings of science and scientists by examining recurring themes and selected episodes of science. We will consider the nature of the scientific enterprise and how science differs from or is similar to other areas of human endeavor, such as art, religion, philosophy, economics, etc. After taking this course you will have a better understanding of science and how it works and of the complex relationship between science and the intellectual, cultural and social milieu in which it is practiced. You will learn the nature of scientific explanation and the limits of scientific understanding.

MALA 70743 - Creative Writing: Advanced Poetry Writing (3)

This is an advanced poetry workshop that focuses primarily on the students' own work. Special attention is paid to invention, point-of-view, voice, form, metaphor, and dramatic development. In addition, students will read and discuss historical and contemporary poetry. This a content-varies course and may be repeated once for credit.

MALA 70753 - Poetry and Contemporary American Culture (3)

This course focuses on the major developments in American poetry from 1945 to the present to address these central questions: How well does poetry address the needs, concerns, and anxieties of contemporary American culture? Have international crises, domestic political and cultural shifts, and the proliferation of electronic media rendered poetry obsolete, or does poetry still hold particular promise in terms of its ability to shore crumbling values or, better, to envision a new ethics, one more responsive to the complexity of our times?

MALA 70763 - Geopolitics and World Communications (3)

The study of global communications in the context of world politics. Overview of world mass media characteristics, impact of British colonialism, role of the United Nations, the New World Information Order, ownership of communication technology, issues in monopoly of knowledge, analysis of information flow and world economy and role of image-makers.

MALA 70773 - History of Media Sex and Violence (3)

This course examines the history of sex and violence in film and on television. topics that may be covered include efforts to regulate or restrict film and television program content, how formerly taboo topics relating to sex and violence have been presented in film or on television, how media companies attempt to profit by presenting sex and violence in film and on television, what the manner in which sex and violence are

presented in film and on television tell us about the society of the time, and how the First Amendment limits government regulation of film and television content.

MALA 70783 - History of Television and Television Programming (3)

Prerequisites: Open to MLA students only. An intensive overview of the history of television and related electronic media from the 1920s to the present. Topics include the rise of the network system, programming, rating and audience research, regulation, and the evolution of television technology. Viewing of significant programming in television history.

MALA 70813 - The Cold War atHome and Abroad (3)

From the end of the Second World War in 1945 until the collapse of the Soviet Union forty-five years later, the Cold War dominated the domestic and foreign affairs of the United States. This course examines the origins of the Cold War and some of the consequences, including the development and application of the containment policy, McCarthyism, the wars in Korea and Vietnam, various other interventions, the debates over diplomatic issues, and the various strategies employed by different presidential administrations. Students will have a chance to do some reading on these subjects and to discuss them. Also they will view episodes from CNN's production, *The Cold War*. The requirements consist of short weekly papers based on the readings and also a kind of term project, a five-seven page critique of John Lewis Gaddis' book, *We Now Know*. The others readings are T.G. Paterson and J.G. Clifford, *America Ascendant: U.S. Foreign Relations since 1939* and R.J. McMahon and T.G. Paterson, *The Origins of the Cold War*, 4th ed.

MALA 70843 - The Ethics of Communication (3)

An examination of contrasting models and standards of communication ethics. Students apply these perspectives to specific situations involving freedom of expression, political campaigns, interpersonal communication, advertising and writing.

MALA 70853 - Creative Writing: The Manuscript (3)

This is a reading and writing intensive class; a willingness to work hard and think creatively and critically about writing is necessary. The class is concerned with the revision and arrangement of writing (Creative Non-Fiction, Fiction, or Poetry) into a final manuscript. The class emphasizes workshoping student writing with this concern in mind and includes the study of contemporary writing selections.

MALA 70863 - Creative Writing: Advanced Creative Nonfiction (3)

Advanced Creative Nonfiction is a craft/workshop course. This class is intended for writers who have a committed interest in creative writing and are comfortable writing longer works of prose. This workshop will explore the range of narrative possibilities available under the umbrella term Creative nonfiction. We'll be looking at questions of structure and technique in a number of subgenres including the personal essay, literary journalism, travel writing, science writing and memoir. Workshop implies that the products of our minds as well as the writing process are our chief concerns - concerns that will encourage a persistent questioning of everyday assumptions about creative-non-fiction, meaning, structure, form, voice, one, etc. Student work will be discussed in both workshops and conferences. In class we will do thought and writing experiments, share work, and discuss problems and possibilities of the imagination and creative writing. At the semester's end students will turn in a portfolio with several polished pieces.

MALA 70873 - Garage Sale History (3)

The course explores 20th century American culture through examining the ordinary objects of our lives, from A-1 Sauce to Zippo lighters, studying how, when, and why ordinary objects rise from the culture and in turn, give shape and character to both culture and personal identity.

MALA 70903 - Global Power Transition: What Does it Hold for the Future? (3)

This course presents an analysis of political, economic, and cultural dimensions of globalization. The emergence of an increasingly interconnected global economy marked by increasing economic integration and creation of a borderless world, has posed new challenges for global governance and the autonomy of nation states. Hence, another dimension of our nuanced world is that the manifestations of new primordial loyalties and cultural and identity anxieties threaten to tear the world apart. At no other juncture in modern history was the world so connected, yet so divided by strife and conflict. The emergence of global problems such as environmental degradation, spread of infectious diseases such as AIDS, the lingering problem of global hunger and genocide are among the pressing issues

of the new century. These developments would have an indelible impact on the emerging society of the 21st century. This course is designed to provide a forum for analysis and discussion of these issues. While the attempt is to dissect these issues primarily on their own terms, we would also discuss the challenges they pose to the United States and the global community.

MALA 70923 - Islam and Politics in the Middle East (3)

Since there is no separation between state and church in Islam, no study of politics in the Muslim World is complete without analyzing the pervasive role of Islam in cultural and political life. The course, however, does not concentrate on Islamic theology; rather, the focus is on politics of Islam and how it molds political discourse and agenda. After the study of origins and historical development of Islamic political theory, the focus would shift to explaining the use of post-World War II Islamic revival. In this connection, the rise of Islamic militancy, the discourse of the Jihadi movement, the challenges before US foreign policy and global community, and the problematics of democratization in the Muslim world and the prospects for Islamic governments are discussed.

MALA 70933 - Food and Philosophy (3)

Philosophical examinations of moral, aesthetic, ontological, and epistemological issues concerning food are topics studied and discussed in this course. Such issues as vegetarianism; ethical issues regarding food additives, food politics and feminism; food as art; food as a metaphor of life; cultures (e.g., Mayan and Japanese) characterized by their cuisine; and recipes as a model of justified rational procedures are covered during the semester. One of the key concepts developed to handle these issues effectively is foodmaking as a thoughtful practice, where practice is understood by the American pragmatists, Peirce and Dewey.

MALA 70943 - Ancient Mysteries: Real and Imagined (3)

In addition to providing an overview of Ancient Mediterranean and Near Eastern History from the Paleolithic age to the fall of Rome, this course explores in some detail various controversial topics that have generated popular interest and often engendered misinformation. These topics are analyzed in a scholarly manner in order to solve the mystery or expose common mis-perceptions and pseudo-scholarship. Typical topics include the following: the fall of Rome, the historical Jesus, other Biblical topics, the pyramids, the Neanderthal problem, and the search for the Trojan War.

MALA 70953 - Mayan Ritual and Drama: Pre-Hispanic Times to the Present (3)

This course will examine the frequently intertwined traditions of ritual and drama among Mayan peoples of Southern Mexico and Central America, from pre-Hispanic times to the present. The course will combine a historical perspective beginning with pre-Columbian documents and Spanish colonial chronicles. Twentieth-century manifestations will be particularly highlighted, based on the instructor's first-hand research; special emphasis will be given to the work of performance groups based in Yucatan and Chiapas, Mexico. Extensive video material will complement textual analyses.

MALA 70963 - Of Virgins and Goddesses, from Mesoamerica to Modern Mexico (3)

Students will develop a better understanding of contemporary culture and society in Mexico and Latin America by examining belief systems from pre-history to pre-Hispanic Mesoamerica, especially regarding female deities, and their modern-day counterpart, the Virgin of Guadalupe. At the end of the course, students will be familiar with recent archaeological research and scholarship and will be able to identify anthropological similarities among mythic-symbolic female images of pre-history from the around the world and understand the pivotal and primal role of the feminine in belief systems of all ancient cultures and their impact on modern traditions, including Mexico's.

MALA 70973 - Law and Society (3)

This course examines the relationship between legal institutions and social processes. Course readings and discussion will focus on the social and political nature of law; the creation and organization of law in modern societies; social functions of law, the limits of law as an instrument of social change; the legislation of morality; democracy, individualism and law; criminal behavior and individual rights; and the use of scientific information in law.

MALA 70983 - Indigenous People of the Andes (3)

A study of the indigenous inhabitants of the Andes, especially Peru and Bolivia, through archaeological and ethnographic data. Focus is on the

development of agriculture and early population centers, particularly the Incas. The course ends with a study of contemporary Quechua and Aymara peoples, and discussion of current political and economic issues.

MALA 70993 - Critical Issues in Criminal Justice (3)

The major controversies that exist in law and criminal justice today are discussed with emphasis on the development of critical thought concerning these issues. Both empirical evidence and grounded theory is discussed in such a manner as to help the student formulate thoughtful opinion concerning the selected topics. Topics include but are not limited to: The Death Penalty, Gun Control, The Insanity Defense, Drug Legalization, Prison Privatization, Drunk Driving Laws, Myths of Organized Crime, Crime and the Media, Fetal Endangerment Statutes, and The Jury System.

MALA 71393 - Religion and Violence (3)

This course explores the highly ambiguous relationship between religion and violence. It provides an overview of situations in the world today that are examples of this ambiguous relationship. Ethical teachings regarding violence in Judaism, Christianity, and Islam are examined. Students are exposed to authors who seek to comprehend violent behavior using explanatory theories. Responses to 9/11/2001 written by a Jew, a Christian, and a Muslim are encountered. The goal is to allow students in the course to develop an understanding of various dimensions (ethical, social, psychological, political, and theological) of the relationship between religion and violence.

MALA 71693 - Creative Writing:Life Writing (3)

Students who take this course will write three full-length pieces (8-12 pages each) of creative nonfiction based on incidents that have occurred in their lives. Students will read selected works of creative nonfiction and from three textbooks on writing (Ann Lamott's *Bird by Bird: Some Instructions on Writing and Life*, Phillip Lopate's *The Art of the Personal Essay*, and Mary Catherine Bateson's *Composing a Life*.) The work of the course will revolve around writing the three pieces, reading and responding to fellow students' pieces online, and analyzing reading assignments from the textbooks.

MALA 71733 - Science, Scientists and Society (3)

Science, Scientists and Society is a cross-disciplinary course in the natural sciences. It will acquaint you with the workings of science and scientists by examining recurring themes and selected episodes of science. We will consider the nature of the scientific enterprise and how science differs from or is similar to other areas of human endeavor, such as art, religion, philosophy, economics, etc. After taking this course you will have a better understanding of science and how it works and of the complex relationship between science and the intellectual, cultural and social milieu in which it is practiced. You will learn the nature of scientific explanation and the limits of scientific understanding.

MALA 71813 - The Cold War at Home and Abroad (3)

From the end of the Second World War in 1945 until the collapse of the Soviet Union forty-five years later, the Cold War dominated the domestic and foreign affairs of the United States. This course examines the origins of the Cold War and some of the consequences, including the development and application of the containment policy, McCarthyism, the wars in Korea and Vietnam, various other interventions, the debates over diplomatic issues, and the various strategies employed by different presidential administrations. Students will have a chance to do some reading on these subjects and to discuss them. Also they will view episodes from CNN's production, *The Cold War*. The requirements consist of short weekly papers based on the readings and also a kind of term project, a five-seven page critique of John Lewis Gaddis' book, *We Now Know*. The others readings are T.G. Paterson and J.G. Clifford, *America Ascendant: U.S. Foreign Relations since 1939* and R.J. McMahon and T.G. Paterson, *The Origins of the Cold War*, 4th ed.

MALA 71843 - The Ethics of Communication (3)

An examination of contrasting models and standards of communication ethics. Students apply these perspectives to specific situations involving freedom of expression, political campaigns, interpersonal communication, advertising and writing.

MALA 71903 - Global Power Transition: What Does it Hold for the Future? (3)

This course presents an analysis of political, economic, and cultural dimensions of globalization. The emergence of an increasingly interconnected global economy marked by increasing economic integration and creation of a borderless world, has posed new

challenges for global governance and the autonomy of nation states. Hence, another dimension of our nuanced world is that the manifestations of new primordial loyalties and cultural and identity anxieties threaten to tear the world apart. At no other juncture in modern history was the world so connected, yet so divided by strife and conflict. The emergence of global problems such as environmental degradation, spread of infectious diseases such as AIDS, the lingering problem of global hunger and genocide are among the pressing issues of the new century. These developments would have an indelible impact on the emerging society of the 21st century. This course is designed to provide a forum for analysis and discussion of these issues. While the attempt is to dissect these issues primarily on their own terms, we would also discuss the challenges they pose to the United States and the global community.

MALA 71943 - Ancient Mysteries: Real and Imagined (3)

In addition to providing an overview of Ancient Mediterranean and Near Eastern History from the Paleolithic age to the fall of Rome, this course explores in some detail various controversial topics that have generated popular interest and often engendered misinformation. These topics are analyzed in a scholarly manner in order to solve the mystery or expose common mis-perceptions and pseudo-scholarship. Typical topics include the following: the fall of Rome, the historical Jesus, other Biblical topics, the pyramids, the Neanderthal problem, and the search for the Trojan War.

MALA 71973 - Law and Society (3)

This course examines the relationship between legal institutions and social processes. Course readings and discussion will focus on the social and political nature of law; the creation and organization of law in modern societies; social functions of law, the limits of law as an instrument of social change; the legislation of morality; democracy, individualism and law; criminal behavior and individual rights; and the use of scientific information in law.

MANA - Management & Leadership

MANA 60023 - Legal and Social Environment of Business (3)

Corporations operate within an environment that is comprised of relationships with customers, investors, employees, competitors, and suppliers. The primary focus of this course will be to examine those federal and state laws that regulate these relationships. Appropriate attention will be paid to the various social, ethical, and political forces that influence the development and enforcement of laws. Additionally, the course will highlight aspects of the international legal environment of business.

MANA 60230 - Legal Env of Business (1.5)

1.5 credit hours. Corporations operate within an environment that is comprised of relationships with customers, investors, employees, competitors, and suppliers. The primary focus of this course will be to examine those federal and state laws that regulate these relationships. Specifically, the course will examine various torts that arise in business, contract law, agency law, intellectual property law and employment discrimination law.

MANA 60330 - Engaging People (1.5)

1.5 credit hours. Development of knowledge, skills, and perspectives needed for engaging employees. Topics include decision making, employee engagement and performance management. Written and oral communication skills are emphasized.

MANA 60340 - Leading Teams and Orgs (1.5)

1.5 credit hours. Development of knowledge, skills and perspectives needed for leading groups, teams, and organizations. Topics include leadership foundations, the role of trust in organizations, organizational culture, leading in complex environments, group and team dynamics, leadership ethics, global and cross-cultural issues, leveraging diversity, and leading organizational change initiatives. Written and oral communication skills are emphasized.

MANA 60350 - Essentials of Motivation (1.5)

1.5 credit hours. Students must have PMBA-MBA, ACCP-MBA, ENRG-MBA, ACCE-MBA or SCMT-MS degree plan. This course is about people working in organizations and how to help them align their efforts with organizational goals. Far from authority- or coercion-based approaches, the management skills we will explore in this course focus on connecting with people--the vital and necessary first step in influencing others--and on creating work experiences that people are likely to find motivating. The more motivated people are, the more likely they are to strive toward

the goals awaiting them. In addition to exploring the theories behind what motivates people to engage in certain workplace behaviors we will discuss the motivational differences that exist among different sub-groups of employees and key factors to consider in motivating teams.

MANA 60460 - Business Ethics (1.5)

1.5 credit hours. Managing Business Ethics addresses moral reasoning and decision making in a business context. Tools for addressing ethical dilemmas are addressed from a personal, managerial, and organizational framework. Case studies are used to develop moral reasoning skills.

MANA 60630 - Strategic Management (1.5)

1.5 credit hours. Student must have BUAD-MBA or ACCL-MBA degree plan. A final integrative course in contemporary global strategic management that integrates the basic business functions. Comprehensive cases deal with global competition in complex changing environments within which the organization seeks to achieve a sustainable competitive advantage. Issues of strategy formulation and implementation are addressed. Technology and communication skills are emphasized.

MANA 60670 - Strategy Formulation (1.5)

1.5 credit hours. Student must have PMBA-MBA, ENRG-MBA, ACCP-MBA, or ACCE-MBA degree plans. This course examines the main issues involved in company strategic management, including how to formulate strategies for achieving competitive advantage in a single industry, and when and how to consider expansion through related and unrelated diversification, vertical integration or international expansion. Topics include: industry analysis, strategic positioning, business portfolio composition and portfolio change via alliances, mergers and acquisitions, or internal development.

MANA 60680 - Strategy Implementation (1.5)

1.5 credit hours. Prerequisites: MANA 60670. Many sound company strategies fail in their implementation. This course examines the building blocks of successful strategy implementation, include: interactive formulation and implementation; broad participation; appropriate organization structures, integrating devices and incentives; effective evaluation and control mechanisms; and frequent feedback for course correction. Topics include the difficulty of changing an organization, typical structure and control changes as organizations grow, managing in different structures, plus turnarounds and strategic renewal.

MANA 65000 - Strategic Vision and Analysis (1.5)

1.5 credit hours. Prerequisite: Must be an EMBA candidate. This course sets the stage for an integrative EMBA experience by providing students with an overall perspective of Strategy and Strategic Leadership from the standpoint of the general manager. Students will examine the role of the strategic visionary and explore how strategic choices are identified and decisions made. Strategic management tools providing insight into competitive and industry analysis and organizational resource and capabilities identification/appropriation will be emphasized.

MANA 65033 - Building High Performance Work Systems (3)

3.0 credit hours. Prerequisite: Must be an EMBA candidate. High performing organizations gain competitive advantage by putting people first. This course examines via case study discussion and readings how these performance, people-centered organizations focus on: aligning people management with strategy, selective staffing, training as investment, building effective teams, sharing information, and designing effective reward systems.

MANA 65063 - Strategy in a Dynamic Environment (3)

3.0 credit hours. Prerequisite: Must be an EMBA candidate. This final course in contemporary global strategic management integrates the basic business functions. Comprehensive cases deal with global competition in complex changing environments within which the organization seeks to achieve a sustainable competitive advantage. Issues of strategy formulation and implementation are addressed. Technology and communication skills are emphasized.

MANA 65160 - Leadership in a Complex World (1.5)

1.5 credit hours. Prerequisite: Must be an EMBA candidate. This course addresses the challenges of leading in today's complex environments. Students will learn how changing business contexts are placing new demands on leaders for innovation, adaptability, learning, and growth. The specific focus will be on how societal and environmental advances require different ways of conceptualizing and practicing leadership relative to strategy, power, relationships, and communication. Students

will leave the course with a better understanding of the challenges being faced, how they as leaders need to approach those challenges, and what organizations need to do to develop more effective leadership.

MANA 65260 - Leading for Innovation and Results (1.5)

1.5 credit hours. Prerequisite: Must be an EMBA candidate. This course focuses on the specifics of leading for innovation and results in organizations. Students will learn how organizational systems and structures enable or inhibit leaders' efforts to drive innovation and change for productivity. They will then explore their own leadership styles and teamwork behaviors relative to the administrative system, the entrepreneurial system and enabling adaptive space. During the course students will identify strategies and practices they can use to be more effective in managing and leading organizational adaptability and performance. They will leave the course with a specific action plan for continuing their own leadership development and for growing other leaders in the organization.

MANA 65460 - Ethical Business Decision Making (1.5)

1.5 credit hours. Prerequisite: Must be an EMBA candidate. This course examines ethical challenges frequently faced by business leaders and explores ethical decision-making from both a business and philosophical perspective. We will focus on ethics from both personal and organizational perspectives and look for the best arguments for various positions. We will read and discuss what some of the best minds in Western history have thought about various issues and learn various frameworks that can be useful for ethical decision-making. Students will learn how to think about deep ethical concerns more thoroughly and carefully and make sound ethical business decisions.

MANA 70353 - Private Equity (3)

Prerequisites: Open to MBA and MAc students; this elective course provides the theoretical background and practical application of private equity in the United States and the world. The principle focus of the course will be early stage venture capital. However, other elements of private equity such as leveraged buyouts and corporate venturing will also be reviewed. To ensure that a realistic perspective of private equity occurs in the class, cases and projects provided by active private equity professionals will be employed to illustrate material.

MANA 70513 - Venture Ideas (3)

The course provides an in-depth overview of the challenges involved in identifying and systematically evaluating opportunities for creating new ventures across a wide range of contexts, including startups, social enterprises, and large, established corporations. As such, the focus of the course is centered on what should be done before writing a business plan and embarking on the development and launch of a new venture.

MANA 70523 - New Venture Planning (3)

The course focuses on providing practical experience associated with the business start-up process. Specifically, students working in teams will take an identified business opportunity and develop a proposed new business centered on a product or service. Additionally, discussions centered on the challenges and opportunities associated with new venture creation will be conducted. The overarching goal of the course is to provide students with an understanding of the entrepreneurial process, and the implications of entrepreneurial management for business leaders.

MANA 70603 - Human Resource Management (3)

Prerequisite: MANA 60033 or MANA 60330 and 60340. The study of programs and activities pertaining to personnel management systems. Major topics include fair employment practices, job analysis, human resource planning, performance appraisal, selection and staffing and training and development.

MANA 70610 - Essentials of Negotiation (1.5)

1.5 credit hours. Prerequisite: MANA 60033, or MANA 60330 and 60340, or MANA 60350 or student must have ACCL-MBA or ACCP-MBA or ACCE-MBA degree plan. Study of distributive, integrative/principled, and intraorganizational negotiation. Includes coverage of negotiation strategies, tactics, preparation, errors, cognitive biases, social structure, ethics, and international negotiations.

MANA 70620 - Energy Legal and Regulatory Issues (1.5)

1.5 credit hours. This course focuses on legal and regulatory issues unique to the U.S. energy industry. Key legal topics covered include ownership rights, kinds of interests, protection of rights, creation and transfer of rights, creation and transfer of interests, essential clauses of modern energy leases, taxation, and energy contracts. Additionally, clean energy regulation will be discussed within the context of these

energy topics. Specific clean energy topics include energy policy, renewable options, tax benefits of clean energy, and clean energy standards and the potential for qualifying energy sources.

MANA 70630 - People Analytics (1.5)

Explores concepts related to using data to guide decisions about managing people. Topics include statistical/technical skills (e.g., multiple regression, measurement theory, big data modeling) in addition to interpretative and critical thinking around reasoning from data (e.g., probabilistic inference, research design, inferential validity).

MANA 70640 - CEO Forum (1.5)

1.5 credit hours. Prerequisites: MANA 60350 or MANA 60330 or student must have ACCL-MBA or ACCP-MBA or ACCE-MBA degree plan. This course is designed to help students learn directly from successful leaders who are serving as Chief Executive Officers in their organizations. Upon completion of the course students will have more than an intellectual understanding of leadership. They will understand the requirements for self-leadership and leading others. They will also learn what is necessary to successfully lead an organization. The course involves class presentations by CEO's; active verbal interaction and engagement by students; submission of written analyses or reflections on the approaches, styles, and knowledge gained from CEO presenters, and in-depth written reports and presentations on a prominent CEO.

MANA 70650 - Energy CEO Forum (1.5)

1.5 credit hours. Prerequisites: FINA 70610. In recent years, major changes in the environment in the energy sector have led to much more interest in effective leadership. This course is designed to help you to learn directly from successful leaders who are serving as the Chief Executive Officers in their energy organizations. When you complete this course, you will leave with more than an intellectual understanding of what leadership is. You will learn what it takes to lead yourself and then what is required to lead others. You will also learn what is necessary to lead a successful energy organization.

MANA 70660 - Energy Field Study (1.5)

This course gives students the opportunity to integrate, apply, and expand the concepts and tools learned throughout the Energy MBA curriculum. The field study project is operated as an independent study with focus on a specific problem, innovation, or research opportunity in an organization. Students must develop and present a final project prior to graduation.

MANA 70663 - Global Experiences - Energy (3)

Prerequisites: Student must have ENRG-MBA or ACCE-MBA degree plan. With increasing per capita incomes around the world, the global community will demand higher levels of more efficient, cleaner, and environmentally less obtrusive energy services. The central issue addressed in this course is what kind of companies will supply energy services, and how, around the globe.

MANA 70730 - Corporate Governance (1.5)

Introduction to the basic functions of boards of directors, with a particular focus on how boards manage the competing interests of shareholders, managers, employees, and other stakeholders. Topics covered will include: governance of firm strategy, executive compensation, the structure and composition of boards, and shareholder activism. Case studies are used and students are expected to participate actively.

MANA 70740 - Managing Conflict for Results (1.5)

1.5 credit hours. Prerequisite: Graduate business student or permission of instructor. This course is designed to give students an understanding of how to manage conflict and confront others in difficult interpersonal situations. A developmental approach is taken in this course to build critical skills that will lead to positive results and stronger performance. We will focus on introducing and cultivating skills necessary for preventing unnecessary conflict, managing emotions, generating resolution alternatives, and other competencies important for confrontational interactions. Learning through active application and experiential exercises will be emphasized.

MANA 70760 - Transformational Leadership (1.5)

1.5 credit hours. This course is designed to give students an understanding of leadership processes that underlie the survival, effective functioning and self-determination of organizations in the 21st century. To this end, we will examine a number of relevant topics that reflect the nature of the challenge being faced, key people and organizational issues in meeting this leadership challenge, and how organizations can select, nurture and develop future leaders.

MANA 70770 - Nonprofit Management (1.5)

Development of knowledge, skills and perspectives needed to understand the organizational structure, trends, and governance of the Nonprofit sector. Students will understand the relationship between volunteer boards and the nonprofit organization, its staff, functions, and the legal and fiscal responsibilities of the organization. Developing a business plan will be utilized to develop nonprofit management skills.

MANA 70773 - Consulting Applications (3)

Prerequisites: admission by application; permission of instructor. This course is designed to provide students with an opportunity to be engaged in a real consulting project for an external client. The goal is to provide students with an experiential opportunity that allows them to understand what it means to work in the service of a client's needs. In addition, students will develop a grounded understanding of consulting and consulting processes that will allow them to organize and generalize their learning from the project work.

MANA 70780 - Management Consulting (1.5)

1.5 credit hours. Prerequisite: MANA 60350; or MANA 60330 and 60340; or student must have ACCL-MBA or ACCP-MBA or ACCE-MBA degree plan. This course will examine critical issues associated with effective management consultation. Topics will include clarifying the role and types of management consultation, developing a sound understanding of the consultation processes, and identifying key capabilities associated with effective consultation. In addition, this course will explore consulting from the perspective of external consultants (both boutique and large consulting firms) and internal consultants (e.g., who tend to work for large corporations). Finally, we will address key business issues for independent consultants and the factors needed to create, grow and sustain a successful consulting business.

MANA 70783 - Practice and Profession of Consulting

Prerequisites: MANA 60330 or MANA 60350 or student must have ACL-MBA or ACCP-MBA or ACCE-MBA degree plan. This course examines key issues and challenges in the business and process of consultation, as well as in consultation as a career field. The goals are to help students understand the business side of consulting by exploring the structure and scope of the consulting industry and to begin developing the core skills necessary to be successful in the practice of consulting. Students will be exposed to academic and professional theory associated with successful consulting skills and practice, and they will have the opportunity to interact with practicing consultants who reflect different backgrounds and perspectives-e.g., working for a large consulting company, working as an internal consultant, starting/running a boutique consulting practice/business.

MANA 70790 - Energy Integrated Field Study (1.5)

This course gives students the opportunity to integrate, apply, and expand the concepts and tools learned throughout the Energy MBA curriculum/program. The field study project is operated as an independent study with focus on a specific problem or research opportunity in an energy organization for 1.5 credit hours. Students must develop a project proposal and execute the project over a 6 month period, with deliverables due in the final 8 week course. Students will learn how their MBA curriculum may be applied and develop project-specific skills and content knowledge. Students must complete this course to earn their Energy MBA.

MANA 70800 - White Collar Crime (1.5)

Prerequisites: Graduate business student or permission of instructor. This course takes a managerial perspective to white collar crime, assuming that criminal activities and corrupt practices occur frequently enough that managers are likely to encounter them at some point during their careers. White-collar professionals are often silently involved in false advertising, health care fraud, political corruption, price fixing, telemarketing fraud, computer crimes, and a plethora of consumer scams affecting our social and economic well-being. Students will analyze these and other illegal and corrupt practices that managers are likely to encounter. In so doing, they will learn how to detect and distinguish between proper and improper practices. They will consider criminal activities and related practices through an ethical lens, exploring associated costs (for individuals, organizations, and society), preventative approaches, and appropriate organizational responses.

MANA 70803 - White Collar Crime

Prerequisites: Graduate business student or permission of instructor. This course takes a managerial perspective to white collar crime, assuming that criminal activities and corrupt practices occur frequently

enough that managers are likely to encounter them at some point during their careers. White-collar professionals are often silently involved in false advertising, health care fraud, political corruption, price fixing, telemarketing fraud, computer crimes, and a plethora of consumer scams affecting our social and economic well-being. Students will analyze these and other illegal and corrupt practices that managers are likely to encounter. In so doing, they will learn how to detect and distinguish between proper and improper practices. They will consider criminal activities and related practices through an ethical lens, exploring associated costs (for individuals, organizations, and society), preventative approaches, and appropriate organizational responses.

MANA 70870 - Practice and Profession of Consulting (1.5)

Prerequisites: MANA 60330 or MANA 60350 or student must have ACCL-MBA or ACCP-MBA or ACE-MBA degree plan. This course examines key issues and challenges in the business and process of consultation, as well as in consultation as a career field. The goals are to help students understand the business side of consulting by exploring the structure and scope of the consulting industry and to begin developing the core skills necessary to be successful in the practice of consulting. Students will be exposed to academic and professional theory associated with successful consulting skills and practice, and they will have the opportunity to interact with practicing consultants who reflect different backgrounds and perspectives-e.g., working for a large consulting company, working as an internal consultant, starting/running a boutique consulting practice/business.

MANA 70880 - Critical Thinking for Executives (1.5)

1.5 credit hours. Students will be exposed to and work with a critical thinking framework for conducting a situation appraisal and determining the most appropriate process and priority for decision-analysis. Such analysis will be applied to making sound choices, solving problems, and testing root causes. Students will also assess the probability and impact of potential problems and opportunities.

MANA 70970 - Special Problems in Management (1.00-9.00)

Special Problems in Management.

MANA 72410 - Health Care in the U.S. (1.5)

This course introduces the intricacies of the health industry that represents 17% of US GDP, and growing. Rather than an in-depth study of one particular segment, the topics are selected to give the student a general overview of multiple parts of the industry to include providers, payers, historical developments and efforts to reform the system, quality care, and the Accountable Care Act. (Note: this course will only focus on the US system, and will not focus on global health issues).

MANA 72420 - U.S. Health Care Policy (1.50)

What is population health and why does it matter? How does the U.S. health care system compare to health systems in other countries? Why are U.S. health care costs so high? How is the U.S. health system financed? What are the basic principles of health insurance? What is the state of U.S. health care reform? Financing accessibility and accessibility of care. It is critical that health care professionals be able to answer these questions. This course will answer these questions through an introduction to the areas of Health Policy concerned with the delivery quality and costs of health care for individuals and populations. The course will examine the history and possible futures of U.S. health care policy with respect to health services

MANA 72423 - U.S. Health Care Policy (3)

3 credit hours. This course will explore both the content and process of health care policy. In addition to addressing specific legislation and regulation that governs health care policy, the course will illuminate the dynamics, processes, and players that shape and influence these policies; the processes by which federal health care policy decisions are made; the individuals who make those decisions; and the stakeholders who influence and are influenced by health care policy outcomes.

MANA 72430 - Population Health (1.5)

In this course we will use managerial epidemiology as a healthcare management tool. Successful healthcare management in the future must simultaneously aim to improve population health, deliver excellent quality of care, and reduce per capita cost. We will apply the

MANA 72440 - Legal Issues in Health Care (1.5)

This course is a study of the fundamental legal issues, including structural and operational issues affecting health care providers and payers. Discussions will cover federal and state fraud and abuse issues, patient safety, patient rights and responsibilities, privacy, confidentiality, Medicare and Medicaid reimbursement issues, and medical records.

MANA 72450 - Health Care Integrative Project (1.5)

1.50 credit hours. This course requires students to integrate, apply, and expand the concepts and tools learned throughout the Healthcare MBA curriculum. The integrative project focuses on a specific idea, problem or research opportunity within a healthcare sector. Through project design, execution and completion, students integrate and apply their cumulative learning while developing project management skills. Students must complete this course to earn the Healthcare MBA. Substitutions are not permitted.

MANA 72453 - Health Care Capstone (3.00)

This capstone course is designed to allow students the opportunity to apply methods and techniques learned in the MBA for Health Care Professionals Program to a practical health administration problem. All students will participate as members of a team to conduct a project in partnership with a local healthcare organization and that is focused on a health administration problem or need. The capstone project consists of identification of a new service, product or innovative process within the current healthcare environment. Once identified, teams will create a business plan to implement this delivery of care.

MANA 75613 - Negotiations (3)

3.0 credit hours. Prerequisite: Must be an EMBA candidate. Study of distributive, integrative/principles, and intraorganizational negotiations. Includes coverage of negotiation strategies, tactics, preparation, social structure, ethics, and international negotiations. Errors and breakdowns are also covered along with other conflict resolution techniques such as mediation and arbitration.

MANA 75970 - Special Problems in Management (1.00-20.00)

Special Problems in Management. Prerequisite: Must be an EMBA candidate.

MANA 75980 - Managing & Leading People (1.5)

1.5 credit hours. Prerequisites: Must be an EMBA candidate. This course will help executives develop best practices for managing and leading employees. We will combine case-based learning with experiential exercises to help students develop a toolkit for diagnosing and finding solutions for common challenges in organizations. We will explore topics such as power, leadership, teams and conflict management through the lens of modern organizational issues such as technology and diversity.

MARK - Marketing

MARK 60010 - Marketing Management (1.5)

1.5 credit hours. The purpose of this course is to introduce students to common marketing problems encountered by marketing managers and general managers. Emphasis is placed on the analysis, development, and implementation of the organization's marketing policy, strategy, and tactics. The goal of this course is to develop an overall framework for addressing marketing issues and problems in a variety of business settings.

MARK 60011 - Marketing Fundamentals (1)

Broadly speaking, this course is designed to help bridge the gap between an undergraduate experience in Marketing and graduate level course. As such, there is less emphasis on memorization of terminology and much greater emphasis on critical thinking, analytics, and decision-making. This course will review some of the basic concepts, but a major emphasis will be placed on identifying and describing practical applications of key concepts. In this way, the nuances and boundaries of concepts will be identified. This is also supplemented by developing students' critical thinking skills through in-depth analysis of classic marketing decisions from a managerial perspective. This course will help students better understand the key decisions that are made in developing a marketing plan. The course will take both a managerial and analytical perspective, emphasizing a graduate level approach to these topics. The course focus is on the big picture, examining both how marketing decisions must fit with the strategic vision of the firm and within the financial objectives of the firm. In other words, a good idea is tough to sell in an organization unless it can be shown to be financially viable.

MARK 60110 - Marketing and Analytics (0)

Prerequisites: Admitted to Master of Science in Business Analytics program. This course is designed for students to gain understanding of the marketing function and how key decisions are made in developing a marketing plan. Using both an analytical and managerial perspective, students will examine how marketing decisions fit into an entity's

strategic vision, marketing objectives and constraints of the organization. We place an emphasis on critical thinking and the integration of analytical tools in decision-making.

MARK 65013 - Advanced Marketing Management (3)

3.0 credit hours. Prerequisites: Must be an EMBA candidate. This is an examination of the marketing function and how it relates to value creation, strategic corporate management and marketing decisions; the major phenomena underlying marketing strategy formulation and the component divisions of product planning, communication, and channels of distribution, both theory and cases to develop a managerial perspective of marketing; linking marketing strategy to financial value.

MARK 70010 - Marketing issues and Problems (1.5)

1.5 credit hours. Prerequisites: MARK 60010 or MARK 60011, or permission of department chair. The purpose of this course is to examine in depth the marketing problems introduced in the first course, Marketing Management. Emphasis is placed on the analysis, development, and implementation of the organization's marketing policy, strategy, and tactics. On a more specific level, the coursework will illustrate how various decision-making tools apply to actual business situations. The goal of this course is to develop a disciplined process for addressing marketing issues and problems in a variety of business settings.

MARK 70100 - Integrated Marketing Communication (1.5)

1.5 credit hours. Prerequisite: MARK 60010 and 70010; or MARK 60011; or permission of department chair. The integrated planning and implementation of sales promotion, advertising, personal selling, public relations, and other communications tools in supporting the overall marketing strategy is the focus of the course.

MARK 70110 - Marketing Analytics (1.5)

1.5 credit hours. Prerequisites: MARK 60010 or 60011, or permission of department chair. This course focuses on helping students develop an analytical and systematic set of skills and processes for making marketing decisions. Marketing decision-making resembles design engineering - putting together concepts, data, analyses, and simulations to learn about the marketplace and to design effective marketing plans. Although many people view marketing as an art and others regard it as science, this course views marketing as a combination of art and science to solve specific problems. Students will learn concepts and will work hands-on with data and software tools for making decisions regarding segmentation and targeting, positioning, forecasting, new product and service design, and the elements of the marketing mix. Through the course, students will learn to take advantage of the massive amounts of data available in most organizations, using that data to make informed decisions, and to create compelling evidence to persuade other executives to support those decisions.

MARK 70120 - Customer Insights (1.5)

1.5 credit hours. Prerequisite: MARK 60010 or 60011, or permission of department chair. The most complex aspect of marketing is understanding the mind and heart of the consumer. If consumer behavior was easy to explicate, then all products would sell as well as projected, all ads would be effective, economies would be efficient, and marketing would be a simple prospect. In actuality, consumers are frustrating and irrational and difficult to predict. This course focuses on providing the basic tools to gain insights into consumer behavior. It addresses both managerial and psychological applications of consumer behavior. We apply tools from psychology, economics, and other social sciences to particular marketing problems. The focus will be on specific results, such as what marketing strategies are likely to be effective given a certain consumer response.

MARK 70130 - Creativity and Innovation in Marketing (1.5)

1.5 credit hours. Prerequisite: MARK 60010 or 60011, or permission of department chair. This course will focus on methods and tools that facilitate creative problem solving. Students will develop skills that can be applied in any business or other decision-making context.

MARK 70140 - Managing Service Excellence (1.5)

1.5 credit hours. Prerequisite: MARK 60010 or 60011, or permission of department chair. To be competitive in today's marketplace, service organizations must provide a quality experience for their customers. This course identifies the key dimensions on which customer perceptions of service excellence are based, and describes strategies for offering superior customer service. Key course concepts include: (1) the drivers of service excellence, (2) reducing gaps in service performance, (3) measuring service quality, (4) service recovery and guarantees, and (5) internal marketing.

MARK 70200 - Customer Relationship Marketing (1.5)

1.5 credit hours. Prerequisite: MARK 60010 or 60011, or permission of department chair. This course focuses on the measurement and management of customer selection, customer acquisition, and customer value. Key concepts explored in the course include: (1) identifying and selecting customers, (2) understanding management of customer acquisition, (3) estimating the value of a customer, (4) linking customer value to shareholder value, and (5) understanding which marketing actions are most appropriate for growing the value of a customer segment.

MARK 70210 - Analytics for Innovation (1.00-6.00)

Prerequisites: MARK 60010 or 60011. Tools and applications surrounding innovation (Conjoint analysis, diffusion, outcome-driven innovation research) and other key marketing issues (pricing and customer lifetime value). Focus on practical applications, including combining these tools with segmentation techniques. Use of small cases and projects to illustrate use of methods.

MARK 70223 - Field Project in Managing Customer Relationships (3)

3 credit hours. Prerequisites: MARK 60010 or 60011, and 70110, 70120, 70200, and 70210; or permission of department chair. Individual or team projects solving real business problems for companies; situation analyses; research proposal composition; field research techniques; statistical analysis; oral and written presentations. Projects will focus on managing customer relationships.

MARK 70303 - Field Project in Managing Products and Brands (3)

3 credit hours. Prerequisites: MARK 70110, 70120, 70720, and 70730.; or permission of department chair. Individual or team projects solving real business problems for companies; situation analyses; research proposal composition; field research techniques; statistical analysis; oral and written presentations. Projects will focus upon managing products and brands.

MARK 70380 - Social Media and Content Marketing (1.5)

1.5 credit hours Prerequisites: MARK 60010 or MARK 60011 or permission of department chair. Social media has disrupted communication channels and created challenges for marketing in the digital age. This has led to consumers having more and more control of brands. In this course, students will learn key aspects of owned and earned media, particularly how to create compelling content and disseminate it along various social media platforms.

MARK 70390 - Digital Marketing Analytics (1.00-6.00)

Prerequisites: MARK 60010 or MARK 60011. Digital marketing has become an essential component of any firm's marketing strategy, and even though more and more dollars are being shifted to digital, marketers and executives are still trying to grasp this medium that is continually evolving. In this course, with a focus on digital marketing analytical tools, students will develop an understanding of digital marketing, study the most important digital channels, gain and understanding of the most challenging topics in digital marketing today including programmatic, attribution, measurement and privacy as well as develop some hands-on experience managing digital marketing campaigns.

MARK 70400 - Pricing Strategy and Tactics (1.5)

1.5 credit hours. Prerequisites: MARK 60010 or 60011, or permission of department chair. This course focuses on the development of pricing strategies and tactics in a variety of industries and organizational settings.

MARK 70700 - Sales Strategy and Organization (1.5)

1.5 credit hours. Prerequisite: MARK 60010 or 60011, or permission of department chair. Students are introduced to issues in planning and organizing a sales force. Planning the sales force involves integrating sales strategy with overall promotion and marketing strategy, developing appropriate implementation methods, and developing proper control mechanisms. Organizing a sales force includes developing a selling mix and managing human and capital resources.

MARK 70710 - Design Thinking (1.00-6.00)

Prerequisites: MARK 60010 or 60011. Design thinking is a method of applying creativity to come up with novel solutions to tough problems. It's the process of immersing yourself in a problem space, thinking creatively around pain points and opportunity areas, then iteratively prototyping totally new solutions. Focused on listening, user empathy, whole-brain thinking, collaboration, and experimentation, design thinking can be applied within any team and in any field--from architecture and design to healthcare and product development. This

intensive course delves into the fundamentals of this creative approach by immersing you in dynamic discussions, relevant readings, and team exercises. Throughout the course students learn how to empathize with the needs and motivations of the end users, come up with a large number of ideas for solving a problem, hone in on the right value proposition, and start to prototype a new offering.

MARK 70720 - New Product Development (1.5)

1.5 credit hours. Prerequisite: MARK 60010 or 60011 or permission of department chair. This course provides in-depth knowledge relating to the management of product innovation and new product development strategy. New product development is considered in relation to market opportunity and competitive advantage. We will evaluate changes in competition, customer demands, and technology and their effects upon the product development process. We will employ research skills and methods relating to idea generation, prototype building and commercial production. Case studies of actual firms will be analyzed in order to examine successes and failures in the context of real product development scenarios. A managerial perspective will be taken. The primary emphasis is on understanding theoretical concepts relevant to the subject and applying them to a variety of real world marketing decision making scenarios. In keeping with current business realities, the course has both a technology and a global focus.

MARK 70730 - Brand Management (1.5)

1.5 credit hours. Prerequisite: MARK 60010 or 60011 or permission of department chair. A brand is often a company's most important asset and as such has received immense attention in recent years. This course will provide an overview about branding, and the ways that brands acquire and sustain value in the marketplace. This is a course with a decided point-of-view on the nature of brands and the skills and tasks this requires of the brand manager. We will consider brands as co-creations of consumers and marketers. If brand management is a collaborative process of meaning management, the job of the brand manager then becomes one of navigating the meaning making processes, attaining meanings that resonate therein, and to managing these meanings deftly through time so as to maximize brand value, capture opportunities, and diminish risk. Cases, as microcosm of brand management, deliver the power of real-world, applied setting and reveal concepts and frameworks that can inform management thoughts and actions.

MARK 70740 - Gamified Systems Design (1.00-6.00)

Prerequisites: MARK 60010 or 60011. This course covers the use of game mechanics and game design techniques to engage and motivate people, such as consumers and employees, to reach their goals. These tools are important to both the marketer and manager. The course will cover the human needs for games and play, what defines a game, and how the mechanisms of successful games can be incorporated into marketing systems. The course will include experiential exercises and discussion.

MARK 70750 - International Marketing (1.5)

1.5 credit hours. Prerequisite: MARK 60010 or 60011, or permission of department chair. 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.

MARK 70760 - Services Marketing Strategy (1.5)

1.5 credit hours. Prerequisite: MARK 60010 or 60011, or permission of department chair. Marketing a service is different than marketing a tangible good. To address these differences, this course focuses on the unique marketing strategies needed for service organizations. Topics covered include strategies for the service offering (i.e., product), pricing, promotion and distribution, among others.

MARK 70770 - Marketing Research (1.5)

1.5 credit hours. Prerequisites: MARK 60010 or 60011, INSC 60010 or INSC 60013; or permission of department chair. Marketing research is about providing relevant, accurate and timely information for marketing decisions. This includes information about competition, external environment and current as well as potential customers. Whether or not you ever work in a marketing research function, at some point in your business career, you most likely will need to deal with marketing research, either as a producer or as a user. The course is designed to provide an overview of marketing research and its use in making more effective marketing decisions. The primary emphases are designing research studies that are both valid and pertinent, and accurately interpreting analysis to guide managerial decisions.

MARK 70800 - Marketing Strategy (1.5)

1.5 credit hours. Prerequisites: MARK 60010 or 60011, or permission of department chair. An examination of current marketing problems and related problem-solving techniques.

MARK 70970 - Special Problems in Marketing (1.00-20.00)

Special Problems in Marketing.

MARK 75970 - Special Problems in Marketing (1.00-20.00)

Special Problems in Marketing. Prerequisites: Enrollment in the EMBA program.

MARK 77710 - Fieldwork in Customer Insights (1.5)

1.5 credit hours. Prerequisites: MARK 60010 or 60011, or permission of department chair. This course is designed to give students first-hand experience in observing and analyzing customer's behaviors through on-site store visits. Students will explore how customers interact with retail spaces, make product decisions and evaluate service encounters. Work will consist of applying at least three customer frameworks to experiential, on-site exercises and include how technology is changing both customers' behavior and retail practices.

MARK 77720 - Strategic Marketing Simulation (1.5)

1.5 credit hours. Prerequisite: MARK 60010 or 60011, or permission of department chair. Professionals and MBA students demand a different kind of simulation: one that emphasizes a long term outlook, reflects more dynamic market realities, and enables them to make a wide array of strategic decisions. You and your group will be given a company and product portfolio to manage in a dynamic and interactive environment. You will be responsible for making decisions relating to all aspects of marketing, including positioning, product design, product pricing, advertising expenditures, sales force allocation, market forecasting, and research and development.

MARK 77730 - Brand Decisions Simulation (1.5)

1.5 credit hours. Prerequisite: MARK 60010 or 60011, or permission of department chair. Learn by doing as you take on the role of brand manager in a fast-paced packaged goods company. Using a computer simulation you will sharpen your brand strategy skills as you make decisions about new product launches, budgeting, and segmentation.

MATH - Mathematics

MATH 50073 - History of Mathematics (3)

Prerequisites: MATH 20524 with a C- or better. A survey of the history of mathematics from ancient times to contemporary times. The selection of topics may vary from semester to semester, but topics closely related to contemporary mathematics are usually emphasized.

MATH 50253 - Abstract Algebra I (3)

Prerequisites: MATH 30053 and 30224, both with a C- or better. Introduction to groups and rings. Homomorphisms, isomorphisms, subgroups, and ideals. Quotient and product structures.

MATH 50323 - Differential Geometry (3)

Prerequisites: MATH 30224 and 30524, both with a C- or better. Calculus on Euclidean space. Geometry of curves and surfaces.

MATH 50403 - Complex Analysis (3)

Prerequisites: MATH 30524 with a C- or better. Analytic functions, harmonic functions, and the Cauchy-Riemann equations. Conformal mappings. Cauchy's integral theorem and formula, with applications. Power series and analytic continuation.

MATH 50503 - Real Analysis I (3)

Prerequisites: MATH 30053 with a C- or better. A rigorous development of elementary limit processes. Continuity, sequences, series, differentiation, integration.

MATH 50613 - Partial Differential Equations (3)

Prerequisites: MATH 30613 and 30524, both with a C- or better. Basic theory of hyperbolic, parabolic, and elliptic partial differential equations.

MATH 50623 - Applied Mathematics I (3)

Prerequisites: MATH 30224, 30524 and 30613, all with a C- or better. Selected topics, such as linear and nonlinear systems, equilibria, Fourier series, computational graph theory, optimization and linear programming, calculus of variations, complex integration.

MATH 50703 - Number Theory (3)

Prerequisites: MATH 20123 and 30224, both with a C- or better. Properties of the integers. Divisibility, prime numbers, modular arithmetic, Chinese Remainder Theorem, Diophantine equations.

MATH 60003 - The Teaching of Mathematics (3)

Teaching methods, including both general principles and specific techniques, and supervised teaching. Focus is on teaching topics from upper secondary level and entry level college courses.

MATH 60023 - Survey of Mathematical Problems I (3)

Prerequisite MATH 30224. Mathematical reasoning and proof techniques from various areas of mathematics such as Logic, Probability, Graph Theory, Number Theory, Cryptography and Constructibility.

MATH 60033 - Survey of Mathematical Problems II (3)

Prerequisite: MATH 60023. Mathematical reasoning and proof techniques from various areas of mathematics such as Game Theory, Set Theory, Limits, Functions, Plane Geometry and Extensions of the Real Numbers.

MATH 60053 - Foundation of Mathematics (3)

Naive set theory, including cardinality, the Axiom of Choice, Zorn's Lemma, and other topics.

MATH 60103 - Graph Theory (3)

Prerequisite: MATH 30224 or equivalent. Graphs, directed graphs and their representations, weighted graphs, shortest path, Hamiltonian and Eulerian circuits, spanning trees, matching, connectedness, flows, Euler's formula, planarity, duality, polyhedra, coloring theorems with applications to map coloring and scheduling problems. Ramsey theory, enumeration and random walks, if time allows.

MATH 60223 - Applied Linear Algebra (3)

Prerequisite: MATH 30224 or equivalent. Vector spaces and bases, linear transformations and operators, Jordan canonical form of a matrix, inner products, Hermitian and unitary operators, and topics selected from Fourier series and transforms, applications to ordinary and partial differential equations, applications to Markov processes.

MATH 60263 - Abstract Algebra II (3)

Prerequisite: MATH 50253. A continuation of MATH 50253. Introduction to field extensions and Galois Theory. Advanced topics in groups and rings.

MATH 60313 - Topology (3)

Introduction to the basics of point-set topology, including elements of set theory, topological spaces, open and closed sets, subspaces, product topologies, metric topologies, connectedness and compactness. Additional topics to be chosen by the instructor, such as classification of surfaces or elementary knot theory.

MATH 60323 - Algebraic Topology I (3)

Prerequisites: MATH 60313 and 50253. Basic topics in algebraic topology, including the fundamental group, covering spaces, and introduction to homology theory with applications to the study of topological spaces.

MATH 60403 - Higher Geometry (3)

Prerequisite: Graduate standing in mathematics. The foundations of geometry. The basic concepts of Euclidean and non-Euclidean geometry. Geometric transformation. Geometric constructions.

MATH 60413 - Advanced Complex Analysis (3)

Prerequisites: MATH 50403 and 50503, or equivalents. A rigorous development of the theory of complex analysis. Analytic functions, branches of functions, harmonic functions and Dirichlet problems. Complex integration, Cauchy's Integral Theorem, winding numbers, topology of the complex plane. Taylor series and Laurent series, singularities of analytic functions, and function theory on the extended plane. Conformal Mapping and Riemann Mapping Theorem.

MATH 60503 - Real Analysis II (3)

Prerequisites: MATH 50503. Metric spaces and their topology, Lebesgue measure and integration, Fourier analysis in Hilbert space. Other selected topics.

MATH 60513 - Multivariable Analysis (3)

Prerequisite: MATH 50503. Topology and geometry of Euclidean space, continuity and differentiation in several variables, multivariable Taylor's

theorem, manifolds, inverse and implicit function theorems, differential forms and integration, multivariable fundamental theorems.

MATH 60523 - Measure Theory (3)

Prerequisite: MATH 50503 or equivalent. Introduction to measure theory and function spaces. Topics will include basic Lebesgue measure and integration theory as well as an introduction to Banach and Hilbert spaces.

MATH 60553 - Modern Fourier Analysis (3)

Prerequisites: MATH 30224, 30524 and 30613, or equivalents. Fourier series and Fourier transform, discrete Fourier transform and numerical methods, convolution, signal processing, filtering, wavelet analysis.

MATH 60603 - Game Theory (3)

Prerequisites: MATH 30224, 30524 and 30803, or equivalents. Sequential move games, game trees, perfect information games and games of chance. Matrix games, dominated and mixed strategies, the mini-max theorem, linear programming. Continuous games, games of timing. Multi-player games and Nash equilibrium, cooperative games: core and stable sets, bargaining, nucleolus. If time permits, special topics can include side payments, power indices, imperfect information and artificial intelligence.

MATH 60613 - Differential Equations of Mathematical Physics (3)

Prerequisites: MATH 30224, 30524 and 30613, or equivalents. Conservation laws, solutions to initial value problems to the diffusion, wave, and other partial differential equations in one or more dimensions. Laplace and Fourier transform methods. Solutions to physical boundary value problems using Fourier series and other orthogonal expansions. Finite element method of solving such equations numerically.

MATH 60633 - Applied Mathematics II (3)

Prerequisite: MATH 50623. Continuation of MATH 50623.

MATH 60643 - Dynamical Systems and Applications (3)

Prerequisite: MATH 30613, or equivalent. Dynamical systems on the line and on the circle, bifurcations, two-dimensional flows, linearization, limit cycles, Lorenz equation and chaos, logistic map, fractals, strange attractors, applications to physics, biology, and engineering.

MATH 60653 - Game Theory (3)

Prerequisites: MATH 30224, 30524 and 30803, or equivalents. Sequential move games, game trees, perfect information games and games of chance. Matrix games, dominated and mixed strategies, the mini-max theorem, linear programming. Continuous games, games of timing. Multi-player games and Nash equilibrium, cooperative games: core and stable sets, bargaining, nucleolus. If time permits, special topics can include side payments, power indices, imperfect information and artificial intelligence.

MATH 60663 - Numerical Analysis (3)

Prerequisites: MATH 20524 and 30224, or equivalent and competence in a high-level programming language. Introduction to numerical methods for solving mathematical problems that arise in the sciences. Topics include floating point arithmetic, error analysis, interpolation, approximating solutions to nonlinear equations, numerical integration and differentiation, and other selected topics.

MATH 60801 - Mathematics Internship (1)

Prerequisites: Must have taken at least 9 hours of graduate Mathematics courses with a grade of B- or higher in each course. Students must spend at least 90 hours in approved practical work experience with an organization or company approved by the graduate program director. Repeatable up to a total of 3 credit hours.

MATH 60853 - Regression & Time Series (3)

Prerequisites: MATH 30224 and 30853, or equivalent. Topics include assessing normality of data, simple multivariable linear regression, model checking diagnostics, variable selection, trends seasonality in time series, and autoregressive-moving-average (ARMA) models. Additional topics may include forecasting, models for count outcome data, and the generalized linear model.

MATH 60883 - Predictive Modeling (3)

Prerequisites: MATH 30224 and MATH 30853, both with a C- or better. Topics will include methods and tools for predictive modeling, including data pre-processing, bias-variance trade-off and model tuning, and analysis techniques including linear regression, adaptive and nearest-neighbor methods, rule-based models, and classification models.

MATH 60970 - Special Topics (1.00-12.00)

Prerequisite: Graduate standing in mathematics. (1-12 semester hours)

MATH 70273 - Commutative Algebra (3)

Prerequisite: MATH 60263, or equivalent. The course will cover the fundamental concepts of commutative algebra. These include commutative rings and homomorphism, ideals and quotient rings, prime ideals, modules over a ring and associated constructions (tensor Product, direct sum), exact sequences, rings and modules of fractions, primary decomposition, Noetherian and Artinian rings, and dimension theory.

MATH 70283 - Algebraic Geometry (3)

Prerequisite: MATH 70273, or equivalent. Algebraic sets and the Zariski topology, projective varieties and their invariants, algebraic maps and linear systems, rational maps and blow-ups, smoothness and the Zariski tangent space, products and the Segre embedding.

MATH 70333 - Algebraic Topology II (3)

Prerequisites: MATH 60313 and 60323, or equivalents. Advanced topics in algebraic topology, continuing from MATH 60323. Topics include the fundamentals of homology and cohomology theory with applications to the study of the properties of topological spaces.

MATH 70373 - Topological K-Theory (3)

Prerequisites: MATH 60263 and MATH 60313, or equivalents. MATH 60323 is recommended as a prerequisite, but is not required. An introduction to K-theory of topological spaces. Topics include vector bundles, idempotents, projective modules, the Grothendieck completion of a group, the Bott periodicity theorem, the Thom isomorphism theorem, and application.

MATH 70423 - Differential Geometry (3)

Prerequisite: MATH 60513 and permission of instructor. Differential structures on manifolds. Differential forms and integration. Stokes' Theorem. Vector fields and flows. Poisson brackets and Lie derivatives. Affine connections and Riemannian metrics. Geodesics and completeness.

MATH 70553 - Global Analysis and Differential Geometry (3)

Prerequisite: Permission of instructor. This is an advanced reading course on special topics in global analysis and differential geometry intended for research level Ph.D. candidates. Topics will be chosen based upon the interests of the student and the instructor.

MATH 70643 - Operators in Hilbert Space (3)

Prerequisites: A knowledge of the Lebesgue integral and permission of instructor. Topology of Hilbert space. Projections and closed linear subspaces. General properties of normal, Hermitian and unitary operators. Compact operators. Spectral analysis of bounded and unbounded operators. Applications.

MATH 70653 - Functional Analysis (3)

Prerequisites: MATH 70553, and permission of instructor. Desirable: Three semester hours of topology. Linear topological spaces. Convex sets. Normed linear spaces. Banach spaces, and Hilbert spaces. Linear operators. Spectral analysis. Banach algebras and C^* -algebras.

MATH 70713 - Algebraic Number Theory (3)

Prerequisite: MATH 60263, or equivalent. Number fields. Dedekind domains. Valuations. Fractional ideals. Factorization, completions, extensions, and ramifications. Class numbers and class groups. Lattices and units. Quadratic and cyclotomic fields. Diophantine Equations. Function fields, adeles and ideles, as time permits.

MATH 70723 - Analytic Number Theory (3)

Prerequisites: MATH 60413, and either MATH 60263 or MATH 50703. Arithmetic functions. Groups and characters. Dirichlet series and Euler products. The Reimann zeta function, other zeta functions, and L-functions. The Prime Number Theorem. Primes in arithmetic progressions.

MATH 70771 - Non-Thesis (1)

Selected when enrolling only for non-thesis examination or preparation for the examination.

MATH 70980 - Thesis (1.00-3.00)

A minimum of 3 hours of MATH 70980 Thesis is required.

MATH 70990 - Thesis (1.00-3.00)

Prerequisites: MATH 70980 and admission to candidacy. A minimum of 3 hours of MATH 70990 Thesis is required.

MATH 80880 - Graduate Student Seminar (1.00-20.00)

Prerequisite: Permission of instructor. Student-presented lectures on various current mathematical topics, selected by the students and the instructor.

MATH 80970 - Advanced Topics (1.00-20.00)

Prerequisites: Permission of instructor. This is an advanced reading course on special topics intended for research level Ph.D. candidates. Topics will be chosen based upon the interests of the student and instructor.

MATH 90980 - Dissertation (1.00-6.00)

Prerequisite: Permission of department chair. A minimum of six hours is required. Enrolled students will pursue their dissertation research under the stewardship of their advisors.

MATH 90990 - Dissertation (1.00-6.00)

Prerequisites: MATH 90980 and admission to candidacy. A minimum of 6 hours required. Enrolled students will pursue their dissertation research under the stewardship of their advisors.

MEDA - Media Arts

MEDA 50113 - Producing for Film and Video

Seminar assesses the role of the producer in the film and video industry. All phases of production will be examined, including budgeting, financing, rights acquisition, and managing the production.

MEDA 50553 - The Full-Length Screenplay

Opportunity to develop, write, and revise a full-length original script. Includes theoretical models of scriptwriting, development of rough scenarios, beat outlines, first drafts, and revisions.

MEDA 50613 - Directing

This course explores video and film directing on an advanced level. Combines the examination of techniques used by feature film directors. All phases of the directing process are examined from selecting a script, rehearsal, principal photography, and post-production.

MEDA 60123 - Media Aesthetics and Culture

Prerequisite: Must be a MEDA graduate student. Seminar examines the fundamental elements of film style (composition, mise-en-scene, editing, narrative structure, sound), and the ways in which media aesthetics have developed in different cultural contexts.

MEDA 60143 - Theory and Practice of Media Literacy

Historical and theoretical development of "media literacy" as a practice of educating the public about the process, techniques, and impact of various media. Focuses on the knowledge base needed to continuously interact with media through understanding of how media work, how they produce meaning, and how they construct reality.

MEDA 60303 - Media Theory and Criticism

This course explores theoretical approaches to understanding media. Topics will include ideology, narrative theories, psychoanalysis, feminism, authorship, and other critical methods of analysis.

MEDA 60433 - Technology and Culture

Seminar analyzes the ways media technologies have affected and represented their socio-cultural contexts. Course emphasizes the relationship between technological development and ideology.

MEDA 60443 - Globalization of the Media Industries

Examines the increasingly international nature of the media industries. Investigates how films, television programs, music, and interactive media are distributed and marketed globally. Examines the perception that "globalization" equals "Americanization."

MEDA 60503 - Script Analysis

Incorporates theory and criticism to enable students to dissect and critique scripts written for the visual media. Students will develop the ability to analyze the basic structure of screenplay plots and their relation to character, thought, language, sound and spectacle.

MEDA 60513 - Research Methods in Media Arts and Communication

Seminar designed to introduce the various methods of media research. Focus on quantitative and qualitative approaches, including surveys, experiments, naturalistic inquiry, critical/cultural, historical and legal research.

MEDA 60743 - Media Law

Analysis of laws and policies affecting the media industries and the interests they were meant to serve. Structural and content regulation of broadcasting, cable, film, and the Internet. Introduction to legal research and writing.

MEDA 60803 - Media Industries and the Production of Culture

Explores the function of media institutions in the generation and circulation of meanings in society. Course addresses general theoretical issues relating to the production of culture, professional ideologies and work practices within media industries, and interaction of media institutions with the socio-political environment. Includes case studies of various media.

MEDA 60903 - Advanced Topics: Media Industries Studies

Seminar offering the opportunity to study various media industries in depth.

MEDA 60913 - Advanced Topics: Media and Culture

Seminar offering the opportunity for in-depth study of various significant aspects of the relationship between media and culture.

MEDA 60923 - Advanced Creative Topics

Seminars offering the opportunity to study in depth selected stages and in the creative process of media production.

MEDA 70001 - Graduate Seminar

Seminars that analyze and discuss significant issues and developments in media and communication. Allows both faculty and students to present work, attend guest presentations, collaborate, and prepare thesis project.

MEDA 70980 - Thesis

Thesis.

MEDA 70990 - Thesis

Thesis.

MUSI - Music

MUSI 50051 - Orchestral Repertoire Studies (1)

Prerequisites: Music major or permission of instructor. This course serves as an enhancement to individual private study and ensemble participation through the development of professional preparation of symphonic, operatic, ballet, and chamber repertoire. Precise repertoire selection will vary based on instrument. Additional skills developed through this course may include professional resume review and professional conduct, especially as they relate to professional auditions.

MUSI 50053 - Introduction to Voice Pedagogy (3)

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.

MUSI 50063 - Comparative Voice Pedagogy (3)

Prerequisite: MUSI 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.

MUSI 50081 - Business Practices for the Independent Music Teacher (1)

Prerequisite: Senior or graduate standing. The lecture course will address business practices needed to successfully establish and maintain an independent music studio. The course will discuss business models, self-employment issues, studio organization, record keeping, tax concerns, marketing, recruiting, and retaining students. Reading and research assignments and preparation of materials will provide the basis for learning.

MUSI 50171 - Advanced Diction English and Italian (1)

In-depth study of the International Phonetic Alphabet and its application to the performance of English (multiple dialects) and Italian lyric diction.

MUSI 50181 - Advanced Diction German and French (1)

In-depth study of the International Phonetic Alphabet and its application to the performance of German and French lyric diction.

MUSI 50191 - Slavic Lyric Diction (1)

Prerequisites: Enrollment in Master of Music, Doctor of Musical Arts, or Artist Diploma course of studies. Undergraduate music majors with permission of the instructor. Application of International Phonetic Alphabet to the advanced study of Czech and Russian lyric diction.

MUSI 50203 - Musical Structure and Style (3)

Prerequisites: MUSI 30202. Study of musical style and structure through the analysis of music; organized chronologically from 1750 to the present.

MUSI 50212 - Choral Conducting (2)

Prerequisites: Senior or graduate standing, MUSI 30512 or 30522, keyboard facility or permission of instructor. Materials and techniques for the experienced choral director.

MUSI 50222 - Instrumental Conducting (2)

Prerequisite: MUSI 30522; keyboard facility; or permission of instructor. Baton technique and its application to selected works of symphonic and operatic literature.

MUSI 50303 - History of Sacred Music (3)

Prerequisite: Junior or Senior standing or graduate standing or permission of instructor. A historical overview of music's roles in various religious traditions from ancient times to the twenty-first century.

MUSI 50403 - Symphonic Literature (3)

Prerequisite: Senior or graduate standing. Historical development of the orchestra and its repertoire, with emphasis on the symphony.

MUSI 50413 - Opera Literature (3)

Prerequisite: Graduate standing or approved seniors with Music 30613, 30623. Operatic masterpieces from 1600 to the present with emphasis on selected works of Mozart, Verdi, Wagner, Puccini, Britten and others.

MUSI 50423 - Choral Literature (3)

Prerequisite: Graduate standing or approved seniors with Music 30613, 30623. The various forms in the field of choral literature with detailed examination of representative works.

MUSI 50433 - Keyboard Literature I Pre-Baroque through Classical (3)

Prerequisite: Junior, senior or graduate standing. Historical development, structural and stylistic elements, as well as performance practices of music for keyboard instruments from the pre-Baroque through the Classical periods.

MUSI 50443 - Ethnomusicology (3)

Prerequisite: 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.

MUSI 50453 - Music Criticism (3)

Prerequisite: Senior or graduate standing. Study of selected writings on music criticism and aesthetics from antiquity to the present.

MUSI 50463 - Topics in Music Since 1900 (3)

Prerequisite: Successful completion of MUSI 30623 or graduate standing. Variable topics in music of the 20th and 21st centuries.

MUSI 50473 - Art Song Literature (3)

Prerequisite: Senior or graduate standing. A socio-musical examination of the repertoire for solo voice from 1750 to the present, with emphasis on German Lieder, French melodie, and art songs in English. Also, a brief survey of art song literature in Spanish and Eastern European languages, including Russian.

MUSI 50483 - Chamber Music Literature (3)

Prerequisite: Graduate standing or approved seniors with Music 30613, 30623. Consent of instructor. The study of the development of chamber music from its beginnings to the present.

MUSI 50493 - Music in the United States (3)

Prerequisite: Senior or graduate standing in music. An examination of both cultivated and vernacular music in the United States from the Colonial Era to the present.

MUSI 50523 - Linear Analysis (3)

Prerequisite: Graduate standing or approved seniors. Development of structural learning through graphic analysis. Readings on Schenkerian concepts as applied to tonal music.

MUSI 50533 - Keyboard Literature II Romantic through Contemporary (3)

Prerequisites: Junior, senior or graduate standing. Historical development, structural and stylistic elements, as well as performance practices of music for piano in the 19th, 20th, and 21st centuries.

MUSI 50970 - Special Problems (.50-6.00)

Prerequisite: Permission of instructor. Specialized work in student's area of concentration. .50-6 hours.

MUSI 51081 - Artist Diploma Post-Baccalaureate Collaborative Piano (1)

Prerequisites: Acceptance to Artist Diploma Program, Post-Baccalaureate. Collaborative Piano course for the Artist Diploma Program in the School of Music.

MUSI 60000 - Music Pedagogy (1.00-20.00)

Methods and materials for teaching at various levels, to include supervised teaching.

MUSI 60010 - Wind Symphony (0.5)

1/2 semester hour.

MUSI 60020 - Percussion Ensemble (0.5)

1/2 semester hour.

MUSI 60030 - Choral Union (0.5)

1/2 semester hour credit and course may be repeated. The Choral Union is a non-auditioned ensemble open to all members of the TCU community (students, faculty and staff). Weekly rehearsals will focus on vocal, musical and ensemble development. The ensemble is designed to accommodate singers of all abilities.

MUSI 60040 - Concert Chorale (0.5)

1/2 semester hour.

MUSI 60041 - Voice Pedagogy Practicum (1)

Prerequisites: MUSI 50053. Experience in individual voice instruction under the supervision of a faculty advisor. Each student will teach two voice pupils weekly lessons for the semester and observe lessons taught by university faculty. A weekly class serves as a forum for pedagogical discussion and exchange of ideas. The course may be repeated for a maximum of three credit hours.

MUSI 60050 - Chapel Choir (0.5)

1/2 semester hour.

MUSI 60052 - Voice Repertoire Management (2)

Prerequisite: Knowledge of Italian, German and French dictions and the International Phonetic Alphabet (IPA) and some proficiency in piano accompanying. Survey of the repertoire for voice performance and its relationship to voice classification, age, technical level and performance situation. Students will learn to coach various national styles and performance practices.

MUSI 60060 - University Singers (0.5)

1/2 semester hour.

MUSI 60062 - Research in Singing (2)

Prerequisites: MUSI 50053, 50063 and permission of instructor. Surveys the literature of research in singing, including topics such as aerodynamics, vocal registers, vibrato, formants, intelligibility, voice classification, vocal abuse and misuse, fitness for singers and the psychology of singing. Students also become familiar with the instrumentation for physiologic and psychoacoustic studies and the principles of experimental design.

MUSI 60063 - Advanced Seminar in Voice Pedagogy (3)

Prerequisites: MUSI 50053, and concurrent enrollment in MUSI 60041. Examination of the techniques and practical aspects of teaching voice, including the psychology of teaching, lesson sequencing, vocalizes and

their various applications, integration of repertoire into technical goals, and consideration of the teacher as vocal coach. The special needs of child, adolescent, and aging voices will also be covered.

MUSI 60070 - Vocal Jazz (0.5)

1/2 semester hour.

MUSI 60073 - Technology in Voice Teaching (3)

Prerequisites: Graduate standing in voice.

MUSI 60080 - Chamber Music (0.5)

1/2 semester hour.

MUSI 60090 - Woodwind Ensemble (0.5)

1/2 semester hour.

MUSI 60091 - Yoga for Musicians (1)

Prerequisites: Music major; prior experience or knowledge in the practice of any style of yoga is helpful, but not required. This course is a pass/no credit course. The course focuses on flexibility, balance, strength, and relaxation. Using postures and breathing exercise adapted to each person's individual level, students will develop improved alignment, breathing, and a balanced body/mind. Students will unite these elements to aid in performance anxiety, posture, phrasing, and other activities inherent to their particular instrument. Limited discussion may include ways to incorporate yoga techniques into the students' daily activities, particularly in practice, rehearsal, and performance. This class is designed to accommodate both those who are new to yoga practice, as well as those with some experience.

MUSI 60100 - Opera Studio (0.5)

1/2 semester hour.

MUSI 60101 - Graduate Music History Survey (1)

Prerequisite: Graduate standing in music. This course is a one-semester survey of Western music history for Master's students whose performance on the Master's entrance exam indicates the need for a general survey.

MUSI 60103 - Bibliography and Research Techniques (3)

Prerequisites: Graduate standing. A course in the basic materials and methods of research in music. Acquaintance with primary source materials such as music lexicons, dictionaries, monuments, complete works of composers, periodical literature and evaluation of standard sources in all areas of music.

MUSI 60110 - Marching Band (0.5)

1/2 semester hour.

MUSI 60120 - Symphony Orchestra (0.5)

1/2 semester hour.

MUSI 60133 - Music Theory/Literacy Pedagogy (3)

Prerequisites: Limited to graduate students majoring in music theory or composition or having music theory or composition as a cognate on their TCU doctoral degree program. Participants in this course learn how to teach music literacy through observation of the instructor, interaction with other participants in model-teaching exercises, and review of test and assignments. A portion of the course is dedicated to the critical review of existing texts, instructional materials, and software.

MUSI 60140 - Frog Corps (0.5)

1/2 semester hour credit and course may be repeated. Frog Corps is a non-auditioned male ensemble that serves as a spirit group for the university campus. Performances include traditional concerts with other university ensembles, appearances at athletic events, and presentation at university and community social occasions.

MUSI 60150 - New Music Ensemble (0.5)

The ensemble performs mixed chamber music composed during the past 100 years with emphasis upon works of the past 25 years.

MUSI 60160 - Brass Ensemble (0.5)

1/2 semester hour.

MUSI 60162 - Techniques for the Singer-Actor (2)

Development of performance techniques unique to music theatre genre. Examination and practical application of skills and knowledge required for producing/directing music theatre.

MUSI 60170 - Piano Accompanying (0.5)

1/2 semester hour.

MUSI 60180 - Collegium Musicum (0.5)

1/2 semester hour.

MUSI 60182 - Piano Chamber Music Performance (2)

Prerequisite: Graduate standing in music. 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.

MUSI 60190 - Jazz Ensemble (0.5)

1/2 semester hour.

MUSI 60191 - Vocal Coaching for Pianists (1)

Prerequisites: Graduate Collaborative Piano Majors. This is designed to train the pianist in vocal coaching techniques. It will include working with the pianist's vocal partner and giving lessons on vocal coaching one on one. There will be one individual coaching each week with the class meeting together every other week. The pianist will learn to give comments on the repertoire, including song translation, pronunciation and information on the composer and style.

MUSI 60200 - Graduate Steel Band I (.50)

The purpose of this course is to provide graduate percussion students with rehearsal and performance experience within a steel band setting.

MUSI 60201 - Graduate Music Theory Review - Aural/Oral (1)

Prerequisites: For Master's students only: Incoming Master's students are placed in this course if the results of their Master's Music Theory Assessment and Placement Exam indicates the need for leveling in the areas of Aural and Oral skills as well as Musical Form. Graduate Music Theory Review - Aural/Oral, is designed to provide leveling in areas of basic music literacy for entering Masters' students. Placement in this course is based upon the results of the Master's Music Theory Assessment Examination given each August before the beginning of the Fall semester. Students are advised into this course so that they might strengthen their proficiency in the areas of Aural and Oral skills.

MUSI 60203 - Graduate Piano Pedagogy and Practicum I (3)

The study of learning theories, methods, materials, curriculum development, and musical assessment for teaching piano with focus on group instruction at the college and university levels. Student teaching is required.

MUSI 60210 - Symphonic Band (0.5)

1/2 semester hour.

MUSI 60213 - Graduate Piano Pedagogy and Practicum II (3)

Prerequisite: MUSI 60203. The student of learning theories, methods, materials, curriculum development, and musical assessment for teaching piano with focus on the elementary and intermediate student. Student teaching is required.

MUSI 60220 - Special Studies in Conducting (1.00-4.00)

Prerequisite: Admission to the Master of Music in Conducting degree program and/or permission of the instructor. An intensive study of the technique and philosophy of conducting with the student's major professor. Required of all students in the Master of Music in Conducting degree during each semester of study in the program. One hour of credit each semester for a maximum of four credits.

MUSI 60223 - Current Trends and Research in Piano Pedagogy (3)

Reading and writing assignments which explore the body of knowledge in the field of piano pedagogy, with emphasis on recent research studies. Selection and development of a research topic for the lecture/recital.

MUSI 60230 - Internship in Teaching (1.00-6.00)

Observation and teaching in a specialized area chosen in consultation with the instructor.

MUSI 60232 - Score Reading (2)

Prerequisite: Admission into the Master of Music in Conducting degree program or permission of instructor. Further development of skills in the reading of all clefs and the most common transpositions and structured analysis of large scores. Score analysis and the simultaneous reading of multiple lines in both full and condensed scores.

MUSI 60233 - Teaching Intermediate and Advanced Piano Students (3)

Prerequisites: MUSI 60203 and 60213. A study of piano literature with a focus on curriculum development and strategies for teaching piano students at the intermediate through advanced levels.

MUSI 60240 - Graduate Steel Band II (0.5)

The purpose of this course is to provide graduate percussion students with rehearsal and performance experience within a steel band setting.

MUSI 60243 - Piano Ensemble Teaching and Performance Literature (3)

Prerequisites: Graduate standing in music. A study of the teaching and performance literature for piano duet, two pianos, and multiple pianos, and teaching applications for the elementary through advanced levels.

MUSI 60250 - Mariachi Ensemble (0.5)

Prerequisites: Graduate standing in the School of Music or permission of instructor. All students enrolled in a mariachi course must be able to play a mariachi-based instrument; therefore, vocalists will be asked to learn a mariachi-based instrument if they do not know how to play one already. This course will introduce fundamental music techniques, music theory relevant to Mariachi, and Mexican historical background necessary to read, understand and interpret Mariachi music in a culturally authentic manner. The course will promote ensemble technique as well as individual growth in Mariachi performance skills. Students will reinforce their aural and reading skills as they will engage in hands-on exercises that will develop and refine their creative and intellectual performance ability and musical understanding of Mariachi. Students will be expected to participate in select public performances representing TCU and the university community. This ensemble is open to all TCU students, but is designed for students with some formal music education. All students enrolled in a mariachi course must be able to play an instrument; therefore, vocalists will be asked to learn a mariachi-based instrument if they do not know how to play one already.

MUSI 60300 - Special Problems in Music Education (1.00-20.00)

Special Problems in Music Education.

MUSI 60301 - Graduate Music Theory Review - Written (1)

Prerequisites: For Master's students only: Incoming Master's students are placed in this course if the results of their Master's Music Theory Assessment and Placement Exam indicates the need for leveling in the areas of Music Fundamentals, Tonal Harmony, and/or Form. Graduate Music Theory Review - Written, is designed to provide leveling in areas of basic music literacy for entering Masters' students. Placement in this course is based upon the results of the Master's Music Theory Assessment Examination given each August before the beginning of the Fall semester. Students are advised into this course so that they might strengthen their proficiency in the areas of Music Fundamentals, Tonal Harmony, and Form.

MUSI 60303 - History of Music Notation (3)

Prerequisites: grad standing in music. This course traces the history of music notation in the Western tradition from Ancient Greece to the end of the 16th century through readings, manuscripts, and prints. Students will gain practical transcription and editing experience.

MUSI 60320 - Graduate Percussion Ensemble II (0.5)

The purpose of this course is to provide graduate percussion students with rehearsal and performance experience within a percussion ensemble setting.

MUSI 60350 - TCU Cello Ensemble (0.5)

Study and performance of music for cello ensemble.

MUSI 60360 - TCU Harp Ensemble (0.5)

The study and performance of music for harp ensemble

MUSI 60400 - Special Topics in Piano Pedagogy (1.00-6.00)

Prerequisites: Graduate standing in music; permission of instructor. Specialized work in student's area of concentration. (1-6 hours.)

MUSI 60413 - Seminar in Opera Literature (3)

Prerequisites: MUSI 50413. An intensive study of a specific area of opera literature, such as the works of a selected composer or of a specific genre of opera. Active research in the historical style and musico-textual relationship through reading, listening, and writing will lead to effective performance. The specific content of this course will change from semester to semester.

MUSI 60420 - Graduate Symphony Orchestra - Strings (0.5)

Graduate Symphony Orchestra - Strings. This course is for string players playing in Symphony Orchestra. Winds, Brass, and Percussion should enroll in MUSI 60120.

MUSI 60433 - Seminar in Keyboard Literature (3)

Prerequisites: Graduate standing in music. A study of a specific area of piano literature, such as the works of a selected composer or a specific genre. The specific content of this course will change from semester to semester.

MUSI 60453 - Musicians in Fiction (3)

Prerequisites: grad standing in Music (non-music majors welcome). This seminar will investigate the role of the musician in selected short stories and novels.

MUSI 60473 - Seminar in Song Literature (3)

Prerequisites: MUSI 50473. An in-depth study of a specific area of art song history and literature. Content will change from semester to semester. Active research on an aspect of solo voice repertoire development in the musical treatment of the text through reading, listening, and writing, will lead to effective performance of the works studied.

MUSI 60483 - Instrumental Collaborative Piano Literature (3)

Prerequisites: This course is designed specifically for students enrolled in the Master of Music in Collaborative Piano degree or with permission of Instructor. The purpose of this course is to give students a deeper knowledge of the vast repertoire that exists in the realm of instrumental collaborative piano. The course is designed to survey both the standard repertoire as well as introduce more esoteric, yet substantial music. Instrumental duos, chamber works and orchestral reductions of all periods will be discussed and analyzed within an historical and theoretical perspective.

MUSI 60500 - Seminar in Musicology (1.00-20.00)

Prerequisite: Graduate standing in music, consent of instructor.

MUSI 60553 - Analysis of Music: 1880-1950 (3)

Prerequisite: Graduate standing. An analysis of 20th Century compositions, with emphasis on atonal music. Study of contemporary compositional techniques and pitch-class analysis. Readings on set analysis and recent developments in contemporary composition.

MUSI 60563 - Analysis of Music: 1950 to Present (3)

Prerequisites: Acceptance into the School of Music DMA program or consent of instructor.

MUSI 60630 - Composition (1-6)

Prerequisite: Permission of instructor. Study of compositional methods. The course may be taken twice for 6 total hours with a maximum load of 3 hours per semester.

MUSI 60643 - Computer Music (3)

Prerequisite: Permission of instructor. An investigation of basic acoustic and electronic principles, psychoacoustics, synthesis fundamentals, synthesis using distortion techniques, subtractive synthesis, speech synthesis, reverberation, auditory localization and other sound processing techniques, aleatoric and deterministic composition with computers and real-time performance of computer music.

MUSI 60700 - Special Studies in Music Theory (1.00-6.00)

Prerequisites: Graduate standing in music, consent of instructor. Special topics in the theory of music, affording students an opportunity to carry on individual programs of study.

MUSI 60800 - Seminar in Music Theory (1.00-20.00)

Seminar in music theory.

MUSI 60801 - Composition Seminar (1)

Prerequisites: Graduate standing in Music. These weekly meetings feature guest speakers, TCU faculty, and graduate students presenting on specific topics in music composition and presenting works for consideration and analysis.

MUSI 60913 - Psychology of Music (3)

The study of the sociological and psychological aspects of music as well as musical aptitude, human learning theory and theories of music learning.

MUSI 60923 - Philosophy of Music Education (3)

A study of the concepts involved in the philosophy of music education with respect to the place of music as a moral, social and cultural force.

MUSI 70203 - Analysis for Performance (3)

Prerequisites: MUSI 50203. In this course students learn to apply analytical techniques learned in MUSI 50203, Musical Structure and Style to performance of musical works. Students will be required to analyze works, articulate the implications for performance suggested by these analyses, critique performance editions and performances in terms of these analyses, and apply their finds to performance and the production of performance editions.

MUSI 70220 - Doctoral Conducting (1.00-3.00)

Prerequisites: must be a DMA conducting student. Advanced conducting lessons for doctoral (DMA) students.

MUSI 70630 - Doctoral Composition (1.00-3.00)

Prerequisites: must be a doctoral student in Music Composition. Private lessons in composition are dedicated to the student application of advanced techniques in the field through the creation of new works. In doctoral level lessons the student is expected to use the aforementioned techniques in the context of developing his or her own creative voice.

MUSI 70771 - Non-Thesis (1)

Selected when enrolling only for non-thesis examination or preparation for the examination.

MUSI 70903 - Music Theory Treatise (3)

Prerequisites: Doctoral student in music. Students do intensive study in the area of musical analysis and produce a significant document related to this study by semester's end.

MUSI 70950 - Special Problems in Musicology (1.00-20.00)

Prerequisite: Graduate standing in music; consent of instructor. Special topics in the history of music, affording students an opportunity to carry on individual programs of study.

MUSI 70971 - Recital I (1)

Recital I.

MUSI 70972 - Lecture Recital (2)

Preparation and delivery of a lecture-recital on a pedagogical topic. Culminates in a major paper and a large-scale workshop presentation.

MUSI 70980 - Thesis I (1.00-20.00)

Thesis I

MUSI 70981 - Recital II (1)

Recital II.

MUSI 70990 - Thesis II (1.00-20.00)

Thesis II

MUSI 80971 - Doctoral Pedagogy Workshop I (1)

Prerequisites: MUSI 60203 and 60213. The preparation of a public workshop for piano teachers at least five hours in length addressing topics related to teaching techniques, teaching materials, and piano literature.

MUSI 80981 - Doctoral Pedagogy Workshop II (1)

Prerequisites: MUSI 80971. The presentation of a public workshop for piano teachers at least five hours in length addressing topics related to teaching techniques, teaching materials, and piano literature.

MUSI 90970 - DMA Document (1-6)

Requisites: Doctoral students in music. DMA Document. May be repeated for credit; 6 hours required.

MUSI 90980 - DMA Composition Dissertation (1.00-6.00)

Prerequisites: Doctoral student in Music. Capstone document in Music composition. This will be a musical composition or set of compositions of major scope.

MUSI 90990 - DMA Composition Dissertation (1.00-6.00)

Prerequisites: Doctoral student in Music. Capstone Document in Music Composition. This will be a musical composition or set of compositions of major scope.

MUSP - Music Performance

MUSP 50210 - Artist Diploma Lessons (1.00-6.00)

Prerequisites: Acceptance to Artist Diploma program, Post-Baccalaureate.

MUSP 50961 - Artist Diploma Recital I (1)

Prerequisites: Acceptance to Artist Diploma Program, Post-Baccalaureate. First recital in a sequence of four required for the Artist Diploma program in the School of Music.

MUSP 50971 - Artist Diploma Recital II (1)

Prerequisites: Acceptance to Artist Diploma Program, Post-Baccalaureate. Second recital in a sequence of four required for the Artist Diploma program in the School of Music.

MUSP 50981 - Artist Diploma Recital III (1)

Prerequisites: MUSP 50971. Third recital in a sequence of four required for the Artist Diploma program in the School of Music.

MUSP 50991 - Artist Diploma Recital IV (1)

Prerequisites: MUSP 50971. Fourth recital in a sequence of four required for the Artist Diploma program in the School of Music.

MUSI 60141 - Collaborative Piano Practicum

Prerequisites: Graduate Collaborative Piano Majors. This course is a laboratory course designed to give the student practical experience in collaborating with vocalists and instrumentalists, large ensemble collaboration i.e. opera, choir, music theater, orchestra, wind symphony, continuo and early music accompanying. Students will be expected to play in studio lessons, studio performance classes, recitals, and juries while adhering to a consistent rehearsal schedule with his/her assigned partner/partners. This practicum trains students in a full range of professional skills. May be repeated for credit.

MUSP 60110 - Voice (1.00-6.00)

Voice

MUSP 60120 - Vocal Coaching Graduate (1.00-2.00)

Prerequisites: Enrollment in Studio Voice MUSP 60110. Individual instruction providing an introduction to professional methods used in opera companies and music theatre for aspiring professional vocalists. Students will concentrate on in-depth study of details of text and style, ensuring authentic sounding diction and appropriate stylistic interpretation. Repertoire studied will be assigned by the studio teacher along with repertoire being prepared for performance on campus and off. Course may be taken for 1 or 2 credits and repeated for credit.

MUSP 60130 - Applied Voice Technology (1.00-2.00)

Concurrent enrollment in MUSP 60110. This elective course teaches the student to employ the Kay-elements Computerized Speech Lab, the Voce Vista program (with electroglottography), and video and recording equipment in furthering the development of their own vocal technique and in devising strategies for the teaching studio by applying measurable analyses to the coordination of vocal-fold vibration, airflow and resonance factors. Students may examine recordings from their studio lessons and compare technical strategies of recorded professional singers. Research projects may be developed.

MUSP 60141 - Collaborative Piano Practicum (1)

Prerequisites: Graduate Collaborative Piano Majors. This course is a laboratory course designed to give the student practical experience in collaborating with vocalists and instrumentalists, large ensemble collaboration i.e. opera, choir, music theater, orchestra, wind symphony, continuo and early music accompanying. Students will be expected to play in studio lessons, studio performance classes, recitals, and juries while adhering to a consistent rehearsal schedule with his/her assigned partner/partners. This practicum trains students in a full range of professional skills. May be repeated for credit.

MUSP 60210 - Piano (1.00-6.00)

Piano

MUSP 60220 - Organ (1.00-6.00)

Organ

MUSP 60230 - Jazz Piano (1.00-6.00)

Jazz Piano

MUSP 60240 - Harpsichord (1.00-6.00)

Harpsichord

MUSP 60310 - Violin (1.00-6.00)

Violin

MUSP 60312 - Applied Collaborative Piano (2)

Prerequisites: This course is designed specifically for students enrolled in the Master of Music in Collaborative Piano degree or with permission of Instructor. This course provides the student with instruction in the learning of collaborative repertoire as well as instruction in the performance practice of stage collaboration with other musicians. The exact course content will vary according to the specific repertoire the student is working on in his/her collaborative activities, such as choral, chamber and private instrumental/vocal studios. Repertoire will also be determined from the professor's assessment of the student's developmental stage and needs. Additional requirements may include engaging in outside work in the vocal and instrumental studios or ensembles.

MUSP 60320 - Viola (1.00-6.00)

Viola

MUSP 60330 - Violoncello (1.00-6.00)

Violoncello

MUSP 60340 - Double Bass (1.00-6.00)

Double Bass

MUSP 60350 - Viola da Gamba (1.00-6.00)

Viola da Gamba

MUSP 60360 - Jazz Bass (1.00-6.00)

Jazz Bass

MUSP 60410 - Flute (1.00-6.00)

Flute

MUSP 60420 - Oboe (1.00-6.00)

Oboe

MUSP 60430 - Clarinet (1.00-6.00)

Clarinet

MUSP 60440 - Saxophone (1.00-6.00)

Saxophone

MUSP 60450 - Bassoon (1.00-6.00)

Bassoon

MUSP 60460 - Jazz Saxophone (1.00-2.00)

Advanced study and performance of saxophone in the jazz style. Emphasis will be placed on maintaining an authentic sound, style and interpretation of jazz repertoire dating from the 1940's to the present. Instruction consists of one on one interaction between faculty and student and is offered for one or two credit hours.

MUSP 60510 - French Horn (1.00-6.00)

French Horn

MUSP 60520 - Trumpet (1.00-6.00)

Trumpet

MUSP 60530 - Trombone (1.00-6.00)

Trombone

MUSP 60540 - Baritone (1.00-6.00)

Baritone

MUSP 60550 - Tuba (1.00-6.00)

Tuba

MUSP 60560 - Euphonium (1.00-6.00)

Euphonium

MUSP 60610 - Percussion (1.00-6.00)

Percussion

MUSP 60620 - Jazz Drumset (1.00-6.00)

Jazz Drumset

MUSP 60710 - Harp (1.00-6.00)

Harp

MUSP 60810 - Guitar (1.00-6.00)

Guitar

MUSP 60910 - Jazz Guitar (1.00-6.00)

Jazz Guitar

MUSP 70110 - Doctoral Voice (1.00-3.00)

Prerequisite: DMA students only. Advanced study in voice for DMA students.

MUSP 70210 - Doctoral Piano (1.00-3.00)

Prerequisite: DMA students only. Advanced study in piano for DMA students.

MUSP 70220 - Doctoral Organ (1.00-3.00)

Prerequisite: DMA students only. Advanced study in organ for DMA students.

MUSP 70310 - Doctoral Violin (1.00-3.00)

Prerequisite: DMA students only. Advanced study in violin for DMA students.

MUSP 70320 - Doctoral Viola (1.00-3.00)

Prerequisite: DMA students only. Advanced study in viola for DMA students

MUSP 70330 - Doctoral Violoncello (1.00-3.00)

Prerequisite: DMA students only. Advanced study in violoncello for DMA students.

MUSP 70340 - Doctoral Double Bass (1.00-3.00)

Prerequisite: DMA students only. Advanced study in double bass for DMA students.

MUSP 70410 - Doctoral Flute (1.00-3.00)

Prerequisite: DMA students only. Advanced study in flute for DMA students.

MUSP 70420 - Doctoral Oboe (1.00-3.00)

Prerequisite: DMA students only. Advanced study in oboe for DMA students.

MUSP 70430 - Doctoral Clarinet (1.00-3.00)

Prerequisite: DMA students only. Advanced study in clarinet for DMA students.

MUSP 70440 - Doctoral Saxophone (1.00-3.00)

Prerequisite: DMA students only. Advanced study in saxophone for DMA students

MUSP 70450 - Doctoral Bassoon (1.00-3.00)

Prerequisite: DMA students only. Prerequisite: DMA students only. Advanced study in bassoon for DMA students

MUSP 70510 - Doctoral French Horn (1.00-3.00)

Prerequisite: DMA students only. Advanced study in French Horn for DMA students.

MUSP 70520 - Doctoral Trumpet (1.00-3.00)

Prerequisite: DMA students only. Advanced study in trumpet for DMA students.

MUSP 70530 - Doctoral Trombone (1.00-3.00)

Prerequisite: DMA students only. Advanced study in trombone for DMA students.

MUSP 70550 - Doctoral Tuba (1.00-3.00)

Prerequisite: DMA students only. Advanced study in tuba for DMA students

MUSP 70610 - Doctoral Percussion (1.00-3.00)

Prerequisite: DMA students only. Advanced study in percussion for DMA students.

MUSP 70971 - Recital I (1)

Recital I

MUSP 70981 - Recital II (1)

Recital II

MUSP 71971 - Collaborative Piano Recital I (1)

Prerequisites: Completed at least one semester of classwork toward the MM in Collaborative Piano. This is the first of two required degree recitals that include string, brass, woodwind, vocal and/or chamber works between the two recitals. The recital is approved by hearing of the recital committee four weeks prior to the recital.

MUSP 72971 - Collaborative Piano Recital II (1)

Prerequisites: Completed at least one semester of classwork toward the MM in Collaborative Piano. This is the second and final of two required degree recitals that include string, brass, woodwind, vocal and/or chamber works between the two recitals. The recital is approved by a hearing of the recital committee four weeks prior to the recital.

MUSP 80961 - DMA Lecture Recital (1)

Prerequisites: Limited to doctoral students in music. A lecture/performance employing a synthesis of scholarship and performance skills in the examination of a topic related to the candidate's area of performance

MUSP 80971 - DMA Recital I (1)

Prerequisites: Doctoral student in Music only. A public recital presented by the doctoral student in music.

MUSP 80981 - DMA Recital II (1)

Prerequisites: Must be a Doctoral student in music. A public recital presented by the doctoral student in music.

MUSP 80991 - DMA Recital III (1)

Prerequisites: Must be a doctoral student in music. A public recital presented by the doctoral student in music.

NAPN - Nursing Advanccd Practice Nurse

NAPN 84201 - Prescribing for Advanced Practice Registered Nurses (1)

Prerequisites: NURS 50022; NURS 50053 (or concurrent enrollment). This course focuses on the prescribing guidelines for advanced practice registered nurses (APRNs) including opioids and other controlled substances. Emphasis is placed on safe prescribing practices and federal and state regulatory guidelines. ER/LA Opioid Risk Evaluation and Mitigation Strategy (REMS) resources are discussed.

NAPN 84202 - Promoting Health and Wellness in Primary Care (2)

Prerequisites: NURS 50022. This course focuses on the role of the nurse practitioner in promoting wellness in the primary care setting, and communities. Principles of health promotion, disease prevention, and behavioral modification for individuals, aggregates, and populations are integrated. The environmental, socioeconomic, epidemiological, and cultural context of health behaviors will be explored. Population health models and frameworks used for health program planning and initiatives will be examined.

NAPN 84212 - Business and Legal Aspects for the Nurse Practitioner (2)

Prerequisites: NURS 50022. This course focuses on the business and legal aspects surrounding nurse practitioners. Incorporated are concepts of legal and ethical parameters of practice, business management, models of practice, and risk management. In addition, resources to measure practice outcomes and strategies for ongoing improvement will be discussed.

NAPN 84213 - Primary Care Adult-Gerontology I (3)

Prerequisites: NURS 50003; NURS 50013; NAPN 84201; NURS 50053; NAPN 84222 (or concurrent enrollment); NURS 50022. This course is taken concurrently with NAPN 84282. This course focuses on the theoretical and clinical foundation of advanced practice nursing management of health care problems common to the adult-gerontology population across the lifespan including the older adult. Emphasis is placed on prevention, screening, diagnosis, and patient care management of selected acute and chronic conditions in the context of the primary care setting. Interprofessional collaboration among health care providers is promoted.

NAPN 84222 - Diagnostic Methods and Procedures for the Advanced Practice Registered Nurse (2)

Prerequisites: NURS 50003; NURS 50053. This course prepares the advanced practice registered nurse (APRN) for utilization, interpretation,

and application of selected laboratory and diagnostic methods and procedures. Students will interpret objective diagnostic clinical data to develop critical thinking and decision-making skills necessary for advanced practice management of health problems across the lifespan. Wound care, suturing, and other common office procedures will be introduced.

NAPN 84282 - Primary Care Adult-Gerontology I Practicum (2)

Prerequisites: NURS 50003; NURS 50013; NAPN 84201; NURS 50053; NAPN 84222 (or concurrent enrollment); NURS 50022. This course is taken concurrently with NAPN 84213. This clinical practicum course focuses on the advanced practice nursing management of health care problems common to the adult and gerontology populations. Students participate in a direct patient care supervised practicum in an adult-gerontology care setting with a qualified preceptor. Application of evidence based clinical practice guidelines, tools and methods for promoting safe, patient-centered care will be emphasized.

NAPN 84323 - Primary Care Adult-Gerontology II (3)

Prerequisites: NURS 50003; NURS 50013; NAPN 84201; NURS 50053; NAPN 84222; NURS 50022; NAPN 84213; NAPN 84282. This course is taken concurrently with NAPN 84382. This course is the second of two courses that focuses on the theoretical and clinical foundation of advanced practice nursing management of health care problems common to the adult-gerontology population across the lifespan including the frail elderly. Emphasis is placed on prevention, screening, diagnosis, and patient care management of selected acute and chronic conditions in the context of the primary care setting. Interprofessional collaboration among health care providers is promoted.

NAPN 84333 - Primary Care of the Young Family (3)

Prerequisites: NURS 50003; NURS 50013; NAPN 84201; NURS 50053; NAPN 84222; NAPN 84213; NAPN 84282; NAPN 84323; NAPN 84382. This course is taken concurrently with NAPN 84392. This course focuses on the theoretical and clinical foundation of advanced practice nursing management of childrearing families including infants, children, adolescents and pregnant women within a family context as appropriate for the family nurse practitioner. Course content includes the principles of health promotion, disease prevention, prenatal care, diagnosis and management of common acute and chronic health problems, family dysfunction, and behavioral problems. Interprofessional collaboration and appropriate referral are integrated throughout the course.

NAPN 84382 - Primary Care Adult-Gerontology II Practicum (2)

Prerequisites: NURS 50003; NURS 50013; NAPN 84201; NURS 50053; NAPN 84222; NURS 50022; NAPN 84213; NAPN 84282. This course is taken concurrently with NAPN 84323. This clinical practicum course focuses on the advanced practice nursing management of health care problems common to the adult and gerontology populations. Students participate in a direct patient care supervised practicum in an adult-gerontology care setting with a qualified preceptor. Application of evidence based clinical practice guidelines, tools and methods for promoting safe, patient-centered care will be emphasized.

NAPN 84385 - FNP Practicum IV (5)

Prerequisites: NURS 50003; NURS 50013; NAPN 84201; NURS 50053; NAPN 84222; NURS 50022; NAPN 84213; NAPN 84282; NAPN 84323; NAPN 84382; NAPN 84333; NAPN 84392. This course is the final synthesis of the theoretical and clinical foundation of advanced practice nursing in the primary care management of individuals and families across the lifespan. Students participate in a direct patient care supervised practicum in a primary care setting with a qualified preceptor. Implementation of the Family Nurse Practitioner role in a collaborative practice model is emphasized. Related professional, ethical, and legal issues are addressed.

NAPN 84392 - Primary Care of the Young Family Practicum (2)

Prerequisites: NURS 50003; NURS 50013; NAPN 84201; NURS 50053; NAPN 84222; NAPN 84213; NAPN 84282; NAPN 84323; NAPN 84382. This course is taken concurrently with NAPN 84333-Primary Care of the Young Family. This clinical practicum course focuses on the health promotion, disease prevention, and treatment of acute and chronic health problems in childrearing families including infants, children, adolescents and women. Students participate in a direct patient care supervised practicum in a primary care setting with a qualified preceptor. Application of evidence based clinical practice guidelines, tools and methods for promoting safe, patient-centered care will be emphasized. Collaborative care with the interprofessional team, community resources and appropriate referral are integrated into this clinical experience.

NAPN 85183 - Intro to Acute Care Adult-Gerontology Practicum (3)

Prerequisites: NURS 50003, 50013, NAPN 84201, NURS 50053, NAPN 84223 (or concurrent enrollment), NURS 50022. This course is taken concurrently with NAPN 84213. This clinical practicum course focuses on the acquisition of diagnostic decision-making skills necessary to practice as a nurse practitioner in an adult-gerontology acute care setting caring for patients over the continuum of wellness through acute care. Students participate in a direct patient care supervised practicum in an adult-gerontology care setting with a qualified preceptor. Application of evidence-based clinical practice guidelines, tools, and methods for promoting safe, patient-centered care will be emphasized.

NAPN 85213 - Acute Care Adult-Gerontology I (3)

Prerequisites: NURS 50003, 50013, 50053, 50022, NAPN 84202, 84213, 84282, 85282 (or concurrent enrollment). This course focuses on assessment, diagnosis, and collaborative management of acutely ill physiologically unstable adolescents, adults, and elders with complex multisystem dysfunction. Content will focus on patients with selected acute and complex chronic illnesses, as well as related ethical, legal, and professional practice issues.

NAPN 85223 - Acute Care Adult-Gerontology II (3)

Prerequisites: NURS 50003, 50013, 50053, 50022, NAPN 84202, 84213, 84282, 85213, 85382 (or concurrent enrollment). This course integrates advanced practice nursing competencies with comprehensive assessment, diagnostic reasoning, analysis of differential diagnoses, and collaborative management of acutely ill physiologically unstable adolescents, adults, and elders with complex multisystem dysfunction. Course will build on Acute Care Adult-Gerontology I content and focus on patients with selected acute and complex chronic illnesses, as well as related ethical, legal, and professional practice issues.

NAPN 85282 - Acute Care Adult-Gerontology I Practicum (2)

Prerequisites: NURS 50003, 50013, 50053, 50022, NAPN 84202, 84213, 84282, 85213 (or concurrent enrollment). This clinical practicum course focuses on the role of the Adult-Gerontology Acute Care nurse practitioner working with a multidisciplinary team to facilitate and accelerate the patient's return to optimal health. Clinical experiences in specialty practice and high acuity health care settings on managing adolescents, adults, and elders with acute, critical, and/or complex chronic illnesses.

NAPN 85382 - AcuteCare Adult-Gerontology II Practicum (2)

Prerequisites: NURS 50003, 50013, 50053, 50022, NAPN 84202, 84213, 84282, 85213, 85282, 85223 (or concurrent enrollment). This continued clinical practicum course focuses on the role of the Adult-Gerontology Acute Care nurse practitioner working with a multidisciplinary team to facilitate and accelerate the patient's return to optimal health. Students apply critical thinking and evidence based clinical decision making skills to develop, implement, and evaluate management plans for adolescents, adults, and elders with acute, critical, and/or complex chronic illnesses in specialty practice and high acuity health care settings. Focus is on the provision of safe and effective advance practice nursing care to diverse populations.

NAPN 85384 - Acute Care Adult-Gerontology Advanced Practicum (4)

Prerequisites: NURS 50003, 50013, 50053, 50022, NAPN 84202, 84213, 84282, 85213, 85282, 85223 and 85382. Clinical supervised preceptorship course focuses on the role of the Adult-Gerontology Acute Care Nurse Practitioner working with a multidisciplinary team to facilitate and accelerate the patient's return to optimal health. Clinical experiences in specialty practice and high acuity health care settings on managing adolescents, adults, and elders with acute, critical, and/or complex chronic illnesses, Implementation of the Adult-Gerontology Acute Care Nurse Practitioner role in a collaborative practice model is emphasized. Related professional, ethical, and legal issues are addressed.

NAPN 86212 - Psychotherapy Concepts for the Psychiatric-Mental Health Nurse Practitioner (2)

Prerequisites: NURS, 50003, 50013, 50053. This course focuses on evidenced based approaches to practicing psychotherapy for the Psychiatric-Mental Health Nurse Practitioner. Emphasis is placed upon psychiatric illness across the lifespan including depression, schizophrenia, addiction and related disorders, childhood and adolescent onset mental illness, and cognitive disorders. Students will earn to provide evidenced based psychotherapy (crisis intervention, brief psychotherapy, group, individual, and family therapy) based upon client assessment and diagnosis.

NAPN 86213 - Psychopharmacology for the Psychiatric-Mental Health Nurse Practitioner (3)

Prerequisites: NURS 50003 and 50053. In this course, students will develop critical thinking and decision-making skills necessary for use of psychopharmacological agents in advanced practice management of mental illness across the lifespan. Emphasis will be placed on pharmacokinetics and pharmacodynamics of psychopharmacology and their relationship with physiologic and pathologic responses of the client.

NAPN 86222 - Neurobiology of Mental Illness: Lifespan (2)

Prerequisites: NURS 50003 and 50053. This course will explore the neurobiological basis for mental disorders including neuroanatomy, neurophysiology, genetics, neurocircuitry, and neuropharmacology and their effect on behavior in psychiatric illness. Treatment modalities and symptom management across the lifespan (children, adolescents, adults and geriatric) will be evaluated based upon current evidenced based practice research. Emphasis will be placed on a broad spectrum of mental illnesses including schizophrenia, depression, bipolar disorder, substance abuse disorders, childhood psychiatric disorders, and cognitive disorders.

NAPN 86223 - Psychiatric Care of Adult and Geriatric Populations (3)

Prerequisites: NURS 50003, 50013, 50022, 50053, NAPN 86212, 86222, 86213, 86283 (concurrent enrollment). This course will focus on assessment, diagnosis and management of psychiatric disorders in the adults and geriatric population. Emphasis will be placed on various psychiatric illnesses (including schizophrenia, mood, addictive, and cognitive disorders) and the care and treatment of the individual, family, and significant others. This course assists in the development of knowledge and skills for the role of the Psychiatric-Mental Health Nurse Practitioner. This course is taken concurrently with NAPN 86283 Advanced Clinical Practicum I Psychiatric-Mental Health: Adult and Geriatrics.

NAPN 86283 - Psychiatric-Mental HlthPrac I (3)

Prerequisites: NURS 50003, 50013, 50022, 50053, NAPN 86212, 86222, 86213, 86223 (concurrent enrollment). This clinical practicum course focuses on the advanced practice nursing management of psychiatric mental health care problems common to the adult and gerontology populations. Students participate in a direct patient care supervised practicum in an adult-geriatric psychiatric care setting with a qualified preceptor. Application of evidence based clinical practice guidelines, tools and methods for promoting safe, patient-centered care will be emphasized. This course is taken concurrently with NAPN 86223 Psychiatric Care of Adult and Geriatric Populations.

NAPN 86333 - Psychiatric Care of Children and Adolescents (3)

Prerequisites: NURS 50003, 50013, 50022, 50053, NAPN 86212, 86222, 86213, 86223 (or with permission), 86283 (or with permission), 86383 (concurrent enrollment). This course will focus on assessment, diagnosis and management of psychiatric disorder in children and adolescents. Emphasis will be placed on various psychiatric illnesses (including schizophrenia, mood, addictive, and cognitive disorders) and the care and treatment of the individual, family, and significant others. This course assists in the development of knowledge and skills for the role of the Psychiatric-Mental Health Nurse Practitioner. This course is taken concurrently with NAPN 86383 Advanced Clinical Practicum II Psychiatric-Mental Health: Children and Adolescents.

NAPN 86383 - Psyc-Mental Health Prac II (3)

Prerequisites: NURS 50003, 50013, 50022, 50053, NAPN 86212, 86222, 86213, 86233 (or with permission), 86283 (or with permission), 86333 (concurrent enrollment). This course is taken concurrently with NAPN 86333 Psychiatric Care of Children and Adolescents. This clinical practicum course focuses on the advanced practice nursing management of psychiatric mental health care problems common to the children and adolescent populations. Students participate in a direct patient care supervised practicum in a children and adolescent psychiatric care setting with a qualified preceptor. Application of evidence based clinical practice guidelines, tools and methods for promoting safe, patient-centered care will be emphasized.

NAPN 86384 - Advanced Clinical Practicum III Psychiatric Mental Health Nurse Practitioner Preceptorship (4)

Prerequisites: NURS 50003, 50013, 50022, 50053, NAPN 86212, 86222, 86213, 84212, 86223, 86283, 86333, 86383. This course is the final synthesis of the theoretical and clinical foundation of advanced practice nursing in the psychiatric mental health care management of individuals and families across the lifespan. Students participate in a direct patient

care supervised practicum in a psychiatric mental health care setting with a qualified preceptor. Implementation of the Psychiatric Mental Health Nurse Practitioner role in a collaborative practice model is emphasized. Related professional, ethical, and legal issues are addressed.

NCNL - Clinical Nurse Leader**NCNL 61113 - Leadership in Clinical Microsystems (3)**

The course focuses on nursing leadership strategies at the microsystem level in the context of the clinical nurse leader role. Lateral integration of care through effective use of interdisciplinary teams is examined. Effective use of self as leader and the role of advocacy is analyzed. Issues involved with genetics are included.

NCNL 61123 - Care Environment Management (3)

Prerequisites: NCNL 61113. This course examines factors influencing team coordination such as delegation, group process, communication, and conflict resolution. Healthcare systems and organizations will be explored with emphasis on complexity theory, change theory, the role of informatics, and financial influences.

NCNL 61133 - Clinical Outcomes Management (3)

Prerequisites: NCNL 61113, 61123, and 61182. This course explores evidence-based strategies to improve client care and manage clinical microsystems. Ways to address nursing sensitive outcomes will be discussed. Outcomes evaluation following nursing interventions across the life span will be analyzed. Synthesis of genetic health problems and nursing care is discussed. Relevant theories will be explored to improve care outcomes.

NCNL 61182 - Clinical Nurse Leader Practicum (2)

Prerequisites: NCNL 61113 and NCNL 61123 (may be taken concurrently.) This precepted clinical course allows students to implement communication and decision making strategies in a clinical microsystem within a healthcare setting. Students will identify and begin work on the clinical project that will serve as their Capstone experience. (This course is only offered as P/NC.)

NCNL 61284 - Clinical Nurse Leader Residency (4)

Prerequisites: NCNL 61113, 61123, 61182, and 61133 (may be taken concurrently.) This clinical course allows students to implement communication, decision making, and advanced client care strategies in a healthcare setting. Students will complete the clinical project that will serve as their Capstone experience. (This course is only offered as P/NC.)

NCNS - Clinical Nurse Specialist**NCNS 60412 - Advanced Care of Adult-Gerontology Populations (2)**

Prerequisites: NURS 50003, 50013, 50053, and 50022. This course is taken concurrently with NCNS 60482. This course emphasizes the patient/client domain of advanced nursing practice with adult-gerontology populations and synthesizes methods of population assessment and planning to construct population-appropriate interventions for health care delivery systems. The focus is on safe, quality, and culturally-appropriate advanced nursing practices to meet emerging global needs.

NCNS 60414 - Adult and Gerontologic Patient Concepts (4)

Prerequisites: NURS 50003, 50013, 60043, and 50053. This course emphasizes the patient/client domain of nursing practice. The health maintenance, health promotion, and illness prevention needs of adults and older adults, individually and collectively, are examined through the introduction and implementation of the outcomes management role. Content includes management of commonly encountered symptoms, functional problems, and risk behaviors commonly encountered in adults.

NCNS 60482 - Advanced Practice Nursing Practicum (2)

The course consists of supervised practicum experience focusing on advanced nursing practice with patients and families experiencing illnesses, injuries, or disease, or developmental transitions common to the selected population of study. The application of health maintenance, health promotion and illness prevention will be incorporated. Particular emphasis is placed on the management of symptoms, functional issues, and risk behaviors commonly encountered in the selected population of study. (This course is only offered as P/NC.)

NCNS 60492 - Advanced Care of Adult-Gerontology Populations Practicum (2)

Prerequisites: NURS 50003, 50013, 50053, and 50022. This course is taken concurrently with NCNS 60412. This course consists of supervised practicum experience focusing on advanced nursing practice with individuals in the selected population (adult-gerontology). The application of health maintenance, health promotion, illness prevention and developmental transitions will be incorporated. Application of evidence-based techniques, tools, and methods for promoting care of the selected population will be emphasized.

NCNS 60512 - The CNS and Professional Practice (2)

Prerequisites: NURS 50003, 50013, 50053, and 50022. This course is taken concurrently with NCNS 60582. This course explores the professional practice domain of the CNS role. Content is organized according to competencies related to identifying, defining, and collaborating on problems and opportunities in nursing practice. The CNS subroles of expert practitioner, educator, researcher, change agent, mentor, and consultant are examined.

NCNS 60513 - CNS Concepts II (3)

Prerequisites: NURS 60413 and 60482. Explores the nursing practice domain of CNS practice. Organized according to competencies related to identifying and defining problems and opportunities in nursing practice, identifying and articulating factors contributing to resource management needs and outcomes, developing innovative solutions, and evaluating the effect of solution strategies. Examines CNS sub roles of expert practitioner, educator, researcher, change agent, and consultant within the nursing personnel sphere of influence.

NCNS 60582 - The CNS and Professional Practice Practicum (2)

Prerequisites: NURS 50003, 50013, 50053, and 50022. This course is taken concurrently with NCNS 60512. This course consists of supervised practicum experience in the professional practice domain of the CNS role integrating the CNS Spheres of Influence. The role of the CNS in supporting nursing personnel as expert practitioner, educator, research, change agent, mentor, and consultant are applied. Particular emphasis is placed on identifying and defining problems and opportunities in nursing practice, identifying and articulating factors contributing to resource management needs and outcomes, developing innovative solutions, and evaluating the effect of solution strategies.

NCNS 60583 - CNS Practicum II (3)

Concurrent: NURS 60513. Clinical care of adult patients experiencing common illnesses or injuries and nursing practice domain of CNS practice. Emphasizes identification and definition of problems and opportunities in nursing practice, identification and articulation of factors contributing to resource management needs and outcomes, development of innovative solutions, and evaluation of solution strategies. Explores CNS sub roles of expert practitioner, educator, researcher, change agent and consultant. (This course is only offered as P/NC.)

NCNS 60612 - The CNS and Systems Leadership (2)

Prerequisites: NURS 50003, 50013, 50053, and 50022. This course is taken concurrently with NCNS 60682. This course explores the systems/organizations domain of CNS practice. Content is organized according to competencies related to identifying and defining problems and opportunities in nursing practice, identifying and articulating resource management needs and factors contributing to outcomes, developing innovative solutions, and evaluating the effect of solution strategies.

NCNS 60613 - CNS Concepts III (3)

Prerequisites: NURS 60413, 60482, 60513, and 60583. Explores the systems/organizations domain of CNS practice. Organized according to competencies related to identification and definition of problems and opportunities in nursing practice, identification and articulation of factors contributing to resource management needs and outcomes, development of innovative solutions, and evaluation of solution strategies. .

NCNS 60682 - The CNS and Systems Leadership Practicum (2)

Prerequisites: NURS 50003, 50013, 50053, and 50022. This course is taken concurrently with NCNS 60612. This course emphasizes the systems/organizations domain of CNS practice integrating CNS Spheres of Influence. The particular emphasis is placed on identification of problems and opportunities, resource management needs, desired outcomes, and development of innovative evidence-based solutions to meet organizational goals and priorities.

NCNS 60683 - CNS Practicum III (3)

Concurrent: NURS 60613. Clinical care of adult patients experiencing common illnesses or injuries; systems/organizations domain of CNS practice; capstone experience integrating CNS spheres of influence in last quarter of semester. Emphasizes organizational/network domain; identification and definition of problems and opportunities within organizations/networks, identification and articulation of factors contributing to resource management needs and outcomes within organizations/networks, development of innovative solutions within organizations/networks, and evaluation of solution strategies within organizations/networks. (This course is only offered as P/NC.)

NCNS 60712 - Advanced Care of Pediatric Populations (2)

Prerequisites: NURS 50003, 50013, 50053, and 50022. This course emphasizes the patient/client domain of advanced nursing practice with pediatric populations and synthesizes methods of population assessment and planning to construct population-appropriate interventions for health care delivery systems. The focus is on safe, quality, and culturally-appropriate advanced nursing practices to meet emerging global needs.

NCNS 60713 - Diagnostic Reasoning and Advanced Patient Management of the Adult-Gerontology Patient (3)

Prerequisites: NURS 50003, 50013, 50053, 50022, NCNS 60412 and 60482. This course is taken concurrently with NCNS 60783. This course emphasizes the diagnosis and management of the common acute and chronic disruptions of health experienced by adult and geriatric patients across the lifespan. Students will assimilate knowledge from advanced assessment, advanced pathophysiology, and advanced pharmacotherapeutics to develop diagnoses and treatment plans within their scope of practice to include development of prescribing skills.

NCNS 60723 - Diagnostic Reasoning and Advanced Patient Management of the Pediatric patient (3)

Prerequisites: NURS 50003, 50013, 50053, 50022, NCNS 60742, 60492. This course is taken concurrently with NCNS 60793. This course emphasizes the diagnosis and management of the common acute and chronic disruptions of health experienced by pediatric patients across the lifespan. Students will assimilate knowledge from advanced assessment, advanced pathophysiology, and advanced pharmacotherapeutics to develop diagnoses and treatment plans within their scope of practice to include development of prescribing skills.

NCNS 60744 - Advanced Concepts in Parent-Child Nursing (4)

The course focuses on family-centered nursing care for childbearing and childrearing families. Areas of concentration include family systems, development and functioning, acute and chronic illness, evidence-based, family centered nursing assessment and intervention, and interdisciplinary collaboration.

NCNS 60782 - Advanced Care of Pediatric Populations Practicum (2)

Prerequisites: NURS 50003, 50013, 50053, 50022. This course consists of supervised practicum experience focusing on advanced nursing practice with individuals in the pediatric population. The application of health maintenance, health promotion, illness prevention and developmental transitions will be incorporated. Application of evidence-based techniques, tools, and methods for promoting care of the selected population will be emphasized. Students must be concurrently enrolled in NCNS 60742, Advanced Care of Pediatric Populations.

NCNS 60783 - Diagnostic Reasoning and Advanced Patient Management of the Adult-Gerontology Patient Practicum (3)

Prerequisites: NURS 50003, 50013, 50053, and 50022, NCNS 60412, NCNS 60482. This course is taken concurrent with NCNS 60713. This preceptored practicum allows students to gain skill in the diagnosis and treatment of individuals in their selected population (adult-gerontology). Students will work closely with a preceptor to gain knowledge and skill in clinical diagnosis and prescription of drugs and other therapies. Development of diagnostic reasoning and management skills will be emphasized.

NCNS 60793 - Diagnostic Reasoning and Advanced Patient Management of the Pediatric Patient Practicum (3)

Prerequisites: NURS 50003, 50013, 50053, 50022, NCNS 60412, 60482. This preceptored practicum allows students to gain skill in the diagnosis and treatment of patients in their specialty (pediatric). Students will work closely with a preceptor to gain knowledge and skill in clinical diagnosis and prescription of drugs and other therapies. This practicum is part of the coursework needed to meet state recognized requirements that allow students to obtain prescriptive authority.

NDNP - Nursing Practice

NDNP 81103 - Role of the DNP in Health Care (3)

Prerequisites: Admission to the Graduate Program or permission of the instructor is required to register for this course. This course will facilitate transition to the DNP role through exploration of leadership, professional and practice perspectives within the metaparadigm of nursing. This course will prepare students to implement evidence-based innovations to impact health care.

NDNP 81113 - Health Innovation & Complexity Science (3)

The purpose of this course is to examine complexity and innovation as they relate to health care systems, delivery, and population health. Areas of focus are health equity, quality and safety, and entrepreneurship. The course provides a broad foundation from which to approach resolution of complex clinical situations and improve practice environments.

NDNP 81123 - Health Care Data Management & Analysis (3)

This course is intended to apply standard statistical methods to develop knowledge and skills, enabling students to understand data collection and analysis methods, interpretation and reporting of statistical results to critically read and evaluate nursing and the healthcare literature. The emphasis is to provide the foundation and skills in data management and statistical analysis essential to conduct evidence-based improvement.

NDNP 81133 - Systems & Organization Leadership (3)

Prerequisites: Admission to the Graduate Program or permission of the instructor is required to register for this course. This course will focus on innovative strategies to facilitate systems and organizational change and business management. Students will explore the role of the DNP as a systems leader and change agent within health care systems.

NDNP 81143 - Population Health & Epidemiology (3)

Prerequisites: Admission to the Graduate Program or permission of the instructor is required to register for this course. Provides theoretical foundation and a framework for examining health promotion, population health, health equity and the implementation of community-based interventions. Students will develop and evaluate evidence-based population health programs to empower community action. Principles of epidemiology, community and systems organizational assessment will be applied to determine population diagnosis and priority setting. The student will use theories to guide development of system level approaches to reduce population health risk, and measure outcomes using available benchmarks. The student will analyze a population topic of interest, examine the social determinants of health, existing disparities, identify gaps, and propose solutions.

NDNP 81222 - Synthesis in Evidence-Based Practice (2)

Prerequisites: NDNP 81123 Health Care Data Management and Analysis. This course is designed to prepare the student to synthesize best evidence to guide decision making in health care.

NDNP 81233 - Health Informatics & Technology (3)

The purpose of this course is to examine information and communication technologies and informatics processes used to manage and improve the delivery of safe, high-quality, and efficient health care services. Emphasis will be on health information technology analysis, planning, implementation and evaluation.

NDNP 81242 - Translation in Evidence-Based Practice (2)

Prerequisite: Admission to the graduate program or permission of the instructor if in a graduate program in another department. This course is designed to prepare the student to translate best evidence to guide decision making in health care.

NDNP 81243 - Translational Research

Prerequisite: Admission to the graduate program or permission of the instructor if in a graduate program in another department. This course provides the foundation for the application of evidence into clinical practice. Emphasis is placed on identification of practice/healthcare system queries and a systematic approach to finding and critically evaluating the evidence for successful translation into practice. The course will prepare students to demonstrate advanced levels of clinical judgment, systems thinking, and accountability in designing, delivering, and evaluating evidence based care to improve population outcomes.

NDNP 81252 - Leadership in Complex Health Environments (2)

Prerequisites: Admission to the Graduate Program or permission of the instructor is required to register for this course. This course focuses on

leadership development focused on transformative, diverse, innovative, strategic, and business-minded health care initiatives for health care leaders. The DNP student will be prepared to assume leadership roles in complex health care systems.

NDNP 81282 - Advanced Leadership Practicum (2)

Prerequisites: Admission to the Graduate Program or permission of the instructor is required to register for this course. This course will prepare students to assume advanced leadership roles in health care. With a focus on personal leadership skills, health innovation and entrepreneurship, and transformative experiences in complex health systems, students will develop competencies in advanced leadership roles. Students will explore advanced communication, conflict management, board and executive positions, decision-making, and team-based collaboration.

NDNP 81343 - Translational Research (3)

Prerequisite: Admission to the graduate program or permission of the instructor if in a graduate program in another department. This course provides the foundation for the application of evidence into clinical practice. Emphasis is placed on identification of practice/healthcare system queries and a systematic approach to finding and critically evaluating the evidence for successful translation into practice. The course will prepare students to demonstrate advanced levels of clinical judgment, systems thinking, and accountability in designing, delivering, and evaluating evidence based care to improve population outcomes.

NDNP 81353 - Health Policy, Finance & Econ (3)

Prerequisite: Admission to the Graduate Program or permission of the instructor if in a graduate program in another department. This course explores policy and financial leadership with an emphasis on stakeholders and the economic forces that drive decision-making in health care. The legislative process, administrative ruling, regulations, and policy decisions at the institutional, local, state, national, and global level will be explored. The course will prepare students to monitor and respond to trends and issues in health finance and economics integrating systems thinking, health policy, and leadership to advance health systems and care delivery.

NDNP 81363 - Emerging Sciences for Advanced Practice (3)

This course provides an extensive overview of current and developing scientific and technological advances in the area of healthcare. The course will explore the impact of these advances and how they could be incorporated into current and future care of the complex client.

NDNP 82181 - Advanced Practicum I (1)

Prerequisites: Admission to the Doctor of Nursing Practice (DNP) Program. This course provides leadership experiences in a healthcare setting commensurate with the student's advanced practice area. It provides an opportunity for students to further synthesize learning gained through the program, effectively incorporating new knowledge and skills to expand his/her advanced practice. This course must be repeated at least four times to meet the expectations for program completion; however, a student may be required to register for more than four semesters of this course to meet program expectations. A minimum of 4 hours of NDNP 82121 is required to complete the program. (This course is only offered as P/NC.)

NDNP 82183 - Advanced Practicum I (3)

Prerequisites: NDNP 81113, 81123, 81233, 81243, 81353, 81363 (all didactic courses.) This course provides leadership experiences in a healthcare setting commensurate with the student's advanced practice area. It provides an opportunity for students to further synthesize learning gained through the program, effectively incorporating new knowledge and skills to expand his/her advanced practice. (This course is only offered as P/NC.)

NDNP 82272 - Advanced Practicum I (2)

Prerequisites: Completion of all doctoral course work or approval of the Division Director, Graduate Nursing. This course provides opportunities for students to synthesize and apply knowledge and skills gained through the program to effectively incorporate aspects of The Essentials for Doctoral Nursing Education for Advanced Nursing Practice.

NDNP 82282 - Advanced Practicum II (2)

This course is a continuation of NDNP 82272 Advanced Practicum I and provides opportunities for students to synthesize and apply knowledge and skills gained through the program to effectively incorporate aspects of The Essentials for Doctoral Nursing Education for Advanced Nursing Practice. (This course is only offered as P/NC.)

NDNP 82283 - Advanced Practicum II (3)

Prerequisites: NDNP 82183. This practicum is a continuation of the first Advanced Clinical Practicum course. Leadership experiences are focused on exploration and identification of innovative, solutions for complex healthcare issues, practices, programs, or populations. (This course is only offered as P/NC.)

NDNP 86612 - Foundations of Scholarly Inquiry (2)

Prerequisites: Admission to the Doctor of Nursing Practice program. This course serves as the foundation for developing advanced competencies to promote scholarly writing and to systematically search literature to facilitate success in the Doctor of Nursing Practice program.

NDNP 86712 - Foundations of Evidence-Based Practice and Research (2)

Prerequisites for new course: Admission to the Graduate Program or permission of the instructor is required to register for this course. This course focuses on evidence-based practice including nursing research methods and theory. Content includes an overview of basic research concepts, evidence-based practice models, research methodologies and designs, and an overview of descriptive and inferential statistics.

NDNP 88061 - DNP Scholarly Project I (1)

Prerequisite: Completion of all doctoral course work or approval of the Division Director, Graduate Nursing. In this course, the DNP student will propose an evidence-based scholarly project.

NDNP 88062 - DNP Scholarly Project I (2)

Prerequisite: Completion of all doctoral course work or approval of the Division Director, Graduate Nursing. This course provides the DNP student with opportunities to plan, implement, evaluate, and disseminate an evidence-based project to demonstrate attainment of the American Association of Colleges of Nursing's The Essentials for Doctoral Education for Advanced Nursing Practice. The student will focus on a project proposal which includes identification of an evidence-based intervention along with an implementation and evaluation plan.

NDNP 88071 - DNP Scholarly Project II (1)

Prerequisites: Completion of all doctoral course work or approval of the Division Director, Graduate Nursing. In this course, the DNP student will plan an evidence-based scholarly project.

NDNP 88072 - DNP Project II (2)

Prerequisites: Completion of all doctoral course work or approval of the Division Director, Graduate Nursing. This course provides the DNP student with opportunities to plan, implement, evaluate, and disseminate an evidence-based project to demonstrate attainment of the American Association of Colleges of Nursing's The Essentials of Doctoral Education for Advanced Nursing Practice. The student will focus on implementation and evaluation processes of the DNP Project.

NDNP 88082 - Advanced Project (2)

This course emphasizes the synthesis, critical appraisal, and application of learning gained in the program to support quality clinical practice and organizational systems. The student, in consultation with a Faculty Adviser, proposes a project that begins with a thorough and scientific evaluation of a current healthcare issue requested by an approved healthcare entity. Following approval by the Faculty Adviser and committee member(s), the student will complete the doctoral project within two academic years as evidenced by the rendering of recommendation(s) or innovation in clinical practice or completion of a comprehensive systematic review. This course must be repeated at least twice to meet the expectations for program completion; however, a student may be required to register for more than two semesters of this course to meet program expectations. A minimum of 4 hours of NDNP 88082 is required to complete the degree program. (This course is only offered as P/NC.)

NDNP 88083 - Advanced Project (3)

Prerequisites: NDNP 81113, 81123, 81233, 81243, 81353, 81363. This course emphasizes the synthesis, critique, and application of learning gained in the program to support quality clinical practice and organizational systems. The DNP candidate, in consultation with their academic adviser, proposes a project that begins with a thorough and scientific evaluation of a current healthcare issue requested by an approved healthcare entity. Following approval of the proposal by the academic adviser and project committee, the DNP candidate will complete the doctoral project within two academic years as evidenced by the rendering of recommendation(s) or design of an innovative

clinical practice or program solving an actual healthcare issue. (This course is only offered as P/NC.)

NDNP 88182 - DNP Scholarly Project III (2)

Prerequisites: Completion of all doctoral course work or approval of the Division Director, Graduate Nursing. This course provides the DNP student with opportunities to plan, implement, evaluate, and disseminate an evidence-based project to demonstrate attainment of the American Association of Colleges of Nursing's The Essentials of Doctoral Education for Advanced Nursing Practice. The student will focus on completing the evidence-based translational project.

NDNP 88191 - DNP Scholarly Project IV (1)

Prerequisites: NDNP 88061, 88071, and 88182. In this course, the DNP student will disseminate the evidence-based scholarly project results.

NRAN - Nurse Anesthesia

NRAN 80113 - Research in Nurse Anesthesia (3)

Emphasizes the evaluation and use of a variety of theories and research methods as a foundation for advanced practice in nurse anesthesia. Includes application of theory and research to improve practice and patient outcomes and identification of outcome studies needed to improve practice. Incorporates legal and ethical foundations of practice and policy.

NRAN 80323 - Physical Science in Nurse Anesthesia (3)

Introduction to structural recognition and nomenclature of organic compounds. Includes an introduction to amino acids, lipids, membranes, protein structure and function, and overview of the bioenergetics of the cell. (Includes experiences with the human patient simulator.)

NRAN 80334 - Advanced Pharmacology (4)

Study of the principles of pharmacology, including pharmacodynamics, pharmacokinetics, and pharmacogenetics as related to various classes of pharmaceutical agents encountered in anesthesia practice. Application of principles as they pertain to various organ systems is emphasized. RNs seeking a graduate level course must obtain permission of the Director if not an admitted nurse anesthesia student.

NRAN 80345 - Advanced Anatomy, Physiology, and Pathophysiology I (5)

Study of structure and function in health and disease of human nervous, endocrine, and excretory systems including fluid, electrolyte and acid-base balance.

NRAN 80346 - Advanced Anatomy, Physiology, and Pathophysiology I (6)

Study of structure and function in health and disease of human nervous, endocrine, and excretory systems including fluid, electrolyte and acid-base balance.

NRAN 80402 - Essentials of Anesthesia and Simulation (2)

Prerequisites: Successful completion of Semesters 1, 2, and 3. This course provides the nurse anesthesia student with the tools necessary for the administration of anesthesia. This course teaches a basic level of expertise in the safe and competent use of anesthesia equipment, along with an introduction to the art and science of nurse anesthesia. This course presents the basic concepts of anesthesia and introduces the student to procedures and principles of nurse anesthesia. Students are also provided with a clinical simulator component which includes fundamental patient interaction under the direct supervision of an instructor.

NRAN 80413 - Advanced Anatomy, Physiology and Pathophysiology III (3)

Study of structure and function of health and disease in the human cardiovascular system.

NRAN 80424 - Pharmacology of Anesthesia Agents (4)

This course is designed to provide an in-depth understanding of the classification, mechanism of action, pharmacokinetics, pharmacodynamics, clinical uses, and interactions of the drugs commonly used in the practice of both general and regional anesthesia. This will include the intravenous sedative-hypnotics, opioids, local anesthetics, inhaled agents, and the muscle relaxants. Also discussed are other drugs necessary to the practice of anesthesia, including vasoactive medications, antiemetics, anticholinergics and pertinent antibiotics.

NRAN 80434 - Advanced Anatomy, Physiology and Pathophysiology II (4)

Study of structure and function of health and disease in the human respiratory, gastrointestinal tract, and endocrine systems.

NRAN 80435 - Advanced Anatomy, Physiology and Pathophysiology II (5)

Study of structure and function of health and disease in the human respiratory, gastrointestinal tract, and endocrine systems.

NRAN 80516 - Principles of Anesthesia Practice I (6)

Prerequisites: Progression to third semester Phase I. This course presents the basic concepts of anesthesia and also introduces the student to procedures and principles of nurse anesthesia. Principles presented include monitoring and assessment skills, airway management (including endotracheal intubation), the anesthesia machine and related current technology. Students are also provided with a clinical simulator component which includes fundamental patient interaction under the direct supervision of an instructor.

NRAN 80526 - Principles of Anesthesia Practice II (6)

Prerequisites: NRAN 60316. This course is intended to provide the student with basic principles of regional anesthesia, selected disease states and their anesthetic implications, basic principles of patient assessment, preparation and interpretation of preoperative data in obstetrics. Emphasis is placed on the physiologic response to surgery, medications, and disease. Students are also provided with a clinical simulator component which includes fundamental patient interaction under the direct supervision of an instructor.

NRAN 80672 - Advanced Pathophysiology and Clinical Management I (2)

Prerequisites: Successful completion of Phase I. An integrated series of lectures, clinical conferences, and seminars designed to provide the clinical resident with an in-depth education in the anesthetic management and considerations of various surgical procedures on patients with diverse pathological conditions. Emphasis is placed on the pathophysiologic aspects and their anesthesia implications. Topics include respiratory, thoracic, neurological, cardiovascular, regional, pediatric, and special areas of anesthesia. Integrates legal and ethical foundations from practice.

NRAN 80683 - Clinical Residency I (3)

Initial exposure to the clinical arena. Provides the opportunity to develop the basic skills and master the course objectives. The nurse anesthesia resident is responsible for the objectives as they pertain to American Society of Anesthesiologists' Classification I, I-E, and II patients and any assigned specialty rotations. (This course is only offered as P/NC.)

NRAN 80772 - Advanced Pathophysiology and Clinical Management II (2)

Prerequisites: NRAN 60572, 60583. An integrated series of lectures, clinical conferences, and seminars designed to provide the clinical resident with an in-depth education in the anesthetic management and considerations of various surgical procedures on patients with diverse pathological conditions. Emphasis is placed on the pathophysiologic aspects and their anesthesia implications. Topics include respiratory, thoracic, neurological, cardiovascular, regional, pediatric, and special areas of anesthesia. Integrates legal and ethical foundations from practice.

NRAN 80783 - Clinical Residency II (3)

Builds on theoretical knowledge acquired in Phase I. A formative period allows the nurse anesthesia resident to learn the new skills required in this practicum. The nurse anesthesia resident is responsible for the following objectives as they pertain to American Society of Anesthesiologists' Classification I, I-E, II, II-E, III, and III-E patients and any assigned specialty rotations. (This course is only offered as P/NC.)

NRAN 80882 - Clinical Residency III (2)

Builds upon theoretical knowledge acquired in Phase I. A formative period allows the acquisition of new skills required in this residency. The nurse anesthesia resident is responsible for the following objectives as they pertain to ALL American Society of Anesthesiologists' Classifications of patients and assigned specialty rotations. (This course is only offered as P/NC.)

NRAN 80972 - Clinical Concepts (2)

Overview of selected topics from Phase I and Phase II, integrating research, basic sciences and anesthetic problems.

NRAN 80983 - Clinical Residency IV (3)

Builds upon the previous residency and the theoretical knowledge acquired in Phase I. A formative period is not included in this residency. The nurse anesthesia resident is responsible for the objectives as they pertain to all classes and types of patients and any assigned specialty rotation. (This course is only offered as P/NC.)

NRAN 81123 - Biostatistics for the Advanced Practitioner (3)

This course is intended to apply standard statistical methods to develop knowledge and skills, enabling students to understand data collection and analysis methods, interpretation and reporting of statistical results to critically read and evaluate nursing and the healthcare literature. The emphasis is to provide the foundation and skills in data management and statistical analysis essential to conduct evidence-based improvement.

NRAN 81153 - Emerging Sciences, Complexity & Innovation in Health Care (3)

The purpose of this course is to examine complexity and innovation as they relate to healthcare systems, emerging sciences, and healthcare delivery. Areas of focus are systems, organizations, individuals, with a focus on current and developing scientific and technological advances, health disparities and ethical decision making. The course provides a broad foundation from which to approach resolution of complex clinical situations and improve practice environments.

NRAN 81233 - Decision Science and Informatics (3)

The purpose of this course is to examine the methods and applications of decision analysis in healthcare practice, information technology, and resource allocation. Areas of focus are systems, organizations, informatics, and different models/frameworks for decision making. The course provides a broad foundation from which to approach resolution of complex clinical situations and improve practice environments.

NRAN 81243 - Translational Research (3)

Prerequisite: Admission to the graduate program or permission of the instructor if in a graduate program in another department. This course provides the foundation for the application of evidence into clinical practice. Emphasis is placed on identification of practice/healthcare system queries and a systematic approach to finding and critically evaluating the evidence for successful translation into practice. The course will prepare students to demonstrate advanced levels of clinical judgment, systems thinking, and accountability in designing, delivering, and evaluating evidence based care to improve population outcomes.

NRAN 81353 - Health Care Policy and Politics (3)

Prerequisite: Admission to the Graduate Program or permission of the instructor if in a graduate program in another department. Examines the current and future dilemmas of the healthcare system and how health plans, healthcare professionals, policymakers, and consumer groups can work together to find innovative solutions. Explores role of health politics in the work place, organization, government, and community with emphasis on involvement and advocacy. Also offered as NDNP 81353.

NRAN 81443 - Advanced Health Assessment: Anesthesia Focus (3)

An integrated series of lectures and laboratory experiences designed to provide the anesthesia student with an in-depth education in providing a comprehensive history and physical assessment. Included within the course is the history, physical, and psychological assessment of signs and symptoms, pathophysiologic changes, and psychosocial variations of a patient. The assessment includes an evaluation of the body and its functions using inspection, palpation, percussion, auscultation and advanced assessment techniques, including diagnostic testing, as appropriate. (Includes experiences with the human patient simulator.)

NRAN 82111 - Comprehensive Pain Management Clinical Practicum- I (1)

Prerequisites: Admission to the Pain Management Fellowship. This course is the first of two related supervised clinical practicums to address the hands-on skills required to perform a focused neuromuscular examination and provide various image-guided neuraxial, muscular, and joint injections. This course will also offer an orientation to the organization, set up, functional operation, and management of various types of pain clinics. A minimum of 120 clinical hours are required during clinical practicum 1. Completion of a (1) basic

and (2) intermediate assessed non-surgical pain management (INSPM) cadaver workshop is required prior to enrollment in NРАН 82111.

NRAN 82121 - Pain Psychology (1) (1)

Prerequisites: Admission to the Pain Fellowship. This course focuses on the psychological aspects of the chronic pain experience in humans. These aspects include, but are not limited to: sensory, affective, cognitive, social, developmental, cultural and spiritual. Topics will include measurement of pain, opiates, addiction, and motivation in pain patients. Treatment discussions will include, but are not limited to: medications, counseling, and mindfulness practices.

NRAN 82123 - Advanced Theoretical Foundations of Pain (3) (3)

Prerequisites: Admission to the Pain Fellowship. This course is essentially about shifting perspectives." A change in perspective can occur - if one is willing - when a person understands what has formed their current perspective and realizes other perceptual options. Most CRNAs are trained in and function from an allopathic understanding of disease and treatment. This perspective needs to be examined and evaluated in light of advanced practice nursing pain management and the future directions of health care. This course focuses on the exploration of varying philosophies of the pathophysiology of disease and treatment as well as the role of epigenetic factors in personal and communal health."

NRAN 82133 - Imaging and Radiation Safety (3)

Prerequisites: Admission to the Pain Fellowship. This course focuses on the use of radiologic imaging for interventional pain management techniques. It also incorporates the principles of radiation safety requirements.

NRAN 82143 - Special Topics in Advanced Pain Management (3)

Prerequisites: Admission to the Advanced Pain Management Program. This course focuses on Special Topics for Advanced Pain Management including: Research initiatives and issues in pain management, an overview of functional medicine and its value in pain management, identification and treatment considerations for special patient populations suffering from chronic pain, and the business aspects of establishing and maintaining a pain management practice.

NRAN 82211 - Comprehensive Pain Management Clinical Practicum-II (1)

Prerequisites: Admission to the Pain Management Fellowship. This course is the second of two related supervised clinical practicums to address the hands-on skills required to perform a focused neuromuscular examination and provide various image-guided neuraxial, muscular, and joint injections. This course will also offer an orientation to the organization, set up, functional operation, and management of various types of pain clinics. A minimum of 120 clinical hours are required during clinical practicum 2.

NRAN 82221 - Psychology and Spirituality in Pain Management (1)

Prerequisite: Admission to the Advanced Pain Management Program. A fundamental goal of the pain management program is the development of an authentic holistic lens that the CRNA pain practitioner sees through. This course focuses on (1) the psychological aspects of the chronic pain experience in humans and (2) presenting a spiritual perspective for the pain management practitioner to develop a rapport and connect with persons experiencing pain. These aspects include, but are not limited to sensory, affective, cognitive, social, developmental, cultural and spiritual. Topics will include measurement of pain, opiates, addiction, and motivation in pain patients. Treatment discussions will include, but are not limited to: medications, counseling, and mindfulness practices. The interconnectedness of the body, mind, and spirit is explored.

NRAN 82223 - Pain Evaluation and Treatment (3)

Prerequisites: Admission to the Advanced Pain Management Fellowship. This foundational course is intended to impart and help the participant internalize and understanding of the changes in normal mechanical, physical, and biochemical functions, caused by disease, trauma, or a dysfunctional physiological process. Specifically, how these alterations produce pain and present to the clinician. Comprehensive knowledge of the pathophysiology associated with pain is the foundation of outstanding pain management.

NRAN 82233 - Pharmacology for Pain Management (3)

Prerequisites: Admission to the Advanced Pain Management Program. This class will focus on the pharmacologic management of the patient with chronic pain including the history and challenges of opioid use, alternatives to opioid therapy, and alternatives to opioid use in the

management of pain. This class will provide valuable information regarding the medications and other substances that can be prescribed for chronic pain.

NRAN 82311 - Comprehensive Pain Treatment Clinical Practicum III (1) (1)

Prerequisites: NRAN 82111, NRAN 82121, NRAN 82123, NRAN 82133, NRAN 82211, NRAN 82221, NRAN 82223, NRAN 82233. This course is the third of three related supervised clinical practicums to address the hands-on skills required to perform a focused neuromuscular examination and provide various image-guided neuraxial, muscular, and joint injections. This course will also offer an orientation to the organization, set up, functional operation, and management of various types of pain clinics.

NRAN 82321 - Functional Health and Functional Health Assessment (1)

Prerequisites: NRAN 82111, NRAN 82121, NRAN 82123, NRAN 82133, NRAN 82211, NRAN 82221, NRAN 82223, NRAN 82233. This course focuses on whole person imbalances, including cultural factors surrounding an individual's reaction to pain, as precursors to signs and symptoms of changes subsequently labeled as disease. Methods of improving function and balance in environmental inputs and promoting and maintain health by intervening at multiple levels for corrections of imbalances and restoration of individual functioning and well-being are covered.

NRAN 82323 - Interventional Pain Strategies for Advanced Pain Practice (3)

Prerequisites: Admission to the Advanced Pain Management Program. This course focuses on both didactic training for diagnostic and therapeutic injections for interventional management of acute and chronic pain.

NRAN 82331 - Anatomy and Physiology for Pain Management (1)

Prerequisites: Admission to the Pain Fellowship. This course focuses on anatomy and physiology core concepts relating to the nervous and musculoskeletal systems for the advanced pain management CRNA.

NRAN 88080 - Advanced Project (3)

Prerequisites: NДNP 81113, 81123, 81233, 81243, 81353, 81363. This course emphasizes the synthesis, critique, and application of learning gained in the program to support quality clinical practice and organizational systems. The DNP candidate, in consultation with their academic adviser, proposes a project that begins with a thorough and scientific evaluation of a current healthcare issue requested by an approved healthcare entity. Following approval of the proposal by the academic adviser and project committee, the DNP candidate will complete the doctoral project within two academic years as evidenced by the rendering of recommendation(s) or design of an innovative clinical practice or program solving an actual healthcare issue. (This course is only offered as P/NC.)

NTDT - Nutritional Sciences

NTDT 50343 - Biochemical, Physiological, and Molecular Aspects of Human Nutrition (3)

Prerequisites: NTDT 40343 or BIOL 40513, graduate status in the department of Nutritional Sciences, or instructor approval. This course provides an advanced study of the principles of nutrition in relation to the biochemical, physiological, and molecular aspects of the human body.

NTDT 50353 - Experimental Food Science (3)

Prerequisites: NTDT 10103, NTDT 20403, and CHEM 30123. 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.

NTDT 50363 - Community Nutrition and Public Health (3)

Prerequisites: NTDT 30123 and NTDT 30303. Course explores nutritional problems and the services available in the community. Management of nutrition services, provision of nutrition information to the public, and the legislative process are studied. Activities to prevent disease and promote health at the local, state, national and global levels will be examined.

NTDT 50973 - Nutritional Sciences Seminar (3)

Prerequisites: Graduate status in the department of Nutritional Sciences, or instructor approval. This seminar will provide the student with an advanced exploration and study of selected topics and emerging issues in food, nutrition, and dietetics. Topics will be determined by faculty to enhance the required curriculum and to satisfy competencies mandated by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics.

NTDT 55343 - Biochemical, Physiological, and Molecular Aspects of Human Nutrition (3)

Prerequisites: NTD 40343 or BIOL 40513, graduate status in the department of Nutritional Sciences, or instructor approval. This course provides an advanced study of the principles of nutrition in relation to the biochemical, physiological, and molecular aspects of the human body.

NTDT 55353 - Experimental Food Science (3)

Prerequisites: NTD 10103, NTD 20403, and CHEM 30123. 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.

NTDT 55363 - Community Nutrition and Public Health (3)

Prerequisites: NTD 30123 and NTD 30303. Course explores nutritional problems and the services available in the community. Management of nutrition services, provision of nutrition information to the public, and the legislative process are studied. Activities to prevent disease and promote health at the local, state, national and global levels will be examined.

NTDT 55973 - Nutritional Sciences Seminar (3)

Prerequisites: Graduate status in the department of Nutritional Sciences, or instructor approval. This seminar will provide the student with an advanced exploration and study of selected topics and emerging issues in food, nutrition, and dietetics. Topics will be determined by faculty to enhance the required curriculum and to satisfy competencies mandated by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics.

NTDT 60020 - Advanced Research Practice (1.00-3.00)

Prerequisites: NTD 40000, NTD 40010 and graduate status in Department of Nutritional Sciences MS in Dietetics. Student will apply scientific principles of investigation and communication of research findings by compiling nutrition research data into visual materials appropriate for presentation at local, state, and/or national professional meetings. Student will present research poster at the annual TCU College of Science and Engineering Annual Michael and Sally McCracken Student Research Symposium (SRS). Student will submit research for presentation at a professional local, state or national meeting. (1-3 hours).

NTDT 60101 - DPD Graduate Seminar (1)

Prerequisites: Graduate status in the Department of Nutritional Sciences MS in Nutrition with DPD Verification. This course consists of seminar topics that introduce professional practice expectations in nutrition and dietetics, leadership and career skills, and the supervised practice application process. This course is designed for students pursuing Didactic Program in Dietetics (DPD) verification required for advancement to an accredited supervised practice program and subsequent eligibility to take the Registration Examination for Registered Dietitian Nutritionists.

NTDT 60303 - Advanced Supervised Practice I (3)

Prerequisites: NTD 40403, 40313, and graduate status in Department of Nutritional Sciences MS in Dietetic. Supervised practice experiences are in selected clinical and community nutrition care facilities with an emphasis on medical nutrition therapy in clinical and community health and nutrition education.

NTDT 60313 - Advanced Supervised Practice II (3)

Prerequisites: NTD 40303, 40313, 60303; graduate status in Department of Nutritional Sciences MS in Dietetics. Continuation of supervised practice experiences in selected clinical and community nutrition care facilities.

NTDT 60324 - Advanced Supervised Practice III (4)

Prerequisites: NTD 40303, 40313, 60303, 60313, graduate status in Department of Nutritional Sciences MS in Dietetics. Capstone supervised practice rotations are in selected culminating dietetics

experiences with a concentration in leadership, event planning and professional development.

NTDT 60443 - Integrative Functional Nutrition and Nutritional Genomics (3)

Prerequisites: NTD 55343, graduate status in the department of Nutritional Sciences, or instructor approval. This course offers an advanced study of nutritional genomics, nutrigenomics, the effect of diet on gene expression, and how genetic differences affect nutrient uptake and metabolism. This course examines the impact of dietary regulation of gene function on human disease.

NTDT 60453 - Nutrition Ecology, Food, and Sustainability (3)

Prerequisites: Graduate status in the Department of Nutritional Sciences, or instructor approval. Course content will examine how food is produced, distributed, consumed, and disposed of, as well as the effects of these processes on human and environmental health, society and the economy. Course will focus on defining contributing problems regarding nutrition ecology and evaluation of proposed sustainable solutions in addressing them.

NTDT 60973 - Nutritional Sciences Graduate Seminar (3)

Prerequisites: Graduate status in the department of Nutritional Sciences, or instructor approval. This graduate seminar will provide the student with an advanced exploration and study of selected topics and emerging issues in food, nutrition, and dietetics. Topics will be determined by faculty to enhance the required curriculum and to satisfy competencies mandated by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics.

NTDT 70980 - Thesis (1-6)

Prerequisites: Graduate status in the department of Nutritional Sciences. Enrolled MS students will pursue their thesis research under the direction of their advisors.

NTDT 70990 - Thesis (1-6)

Prerequisites: NTD 70980. Enrolled MS students will pursue their thesis research under the direction of their advisors.

NUAL - Nursing Administration and Leader

NUAL 60802 - Role of the Nursing Administrator and Leader (2)

Prerequisites: NURS 50003, 50013, 50053, 60013, 60043, 60443. This course prepares students to investigate the complexities of nursing leadership and administrative roles at all points of care across the healthcare continuum.

NUAL 60811 - Leadership Development: Individual Practicum (1)

Prerequisites: NUAL 60802; taken concurrently with 60812. This practicum course provides students the opportunity to develop personal interprofessional skills as an effective administrator and leader.

NUAL 60812 - Leadership and Self (2)

Prerequisites: NUAL 60802, taken concurrently with NUAL 60811. This course introduces the student to the importance of self-awareness and reflection in becoming an effective administrator and leader. Students will explore the philosophies, ethics, and models of practice for administration and leadership.

NUAL 60821 - Administration and Leadership of Groups and Teams Practicum (1)

Prerequisites: NUAL 60811 and 60812, taken concurrently with NUAL 60822. This practicum course provides students the opportunity to develop interprofessional skills as an effective administrator and leader.

NUAL 60822 - Administration and Leadership of Groups and Teams (2)

Prerequisites: NUAL 60812 and 60811; taken concurrently with NUAL 60821. This course focuses on working with others as an effective administrator and leader. The student will explore administration and leadership in the context of work environment, communication, personnel management, mentorship, succession planning, organizational and professional culture, and collaboration.

NUAL 60831 - Administration and Leadership of Organizations Practicum (1)

Prerequisites: NUAL 60822 and 60821; taken concurrently with NUAL 60832. This practicum course provides students the opportunity to develop and refine skills in business management.

NUAL 60832 - Administration and Leadership of Organizations (2)

Prerequisites: NUAL 60822 and 60821; taken concurrently with NUAL 60831. This course prepares the student for the role of the nurse administrator and leader in governance across the organization. Healthcare economics, fundamentals of legal and regulatory requirements, human resource management, informatics and technology, quality, safety, and risk management will be examined.

NUAL 60843 - Advanced Administration and Leadership in the Changing Healthcare Environment (3)

Prerequisites: NUAL 60832 and 60831; taken concurrently with NUAL 60844. In this course, the student will synthesize and apply knowledge of leading self, others, and organizations to shape healthcare through innovation and expert nursing leadership.

NUAL 60844 - Advanced Administration and Leadership in the Changing Healthcare Environment Practicum (4)

Prerequisites: NUAL 60832 and 62831; taken concurrently with NUAL 60843. This advanced practicum course allows the student an opportunity to apply synthesized knowledge of expert nursing leadership to improve self, others, and organizations.

NUED - Nursing Education**NUED 60712 - Learning and Instruction (2)**

Prerequisites: Admission to PhD in Health Sciences program and permission of faculty. This course examines the teaching and learning theories used in education. Students will explore the role of the educator in various contexts and settings, and analyze applicable teaching strategies. Students will gain experience in classroom management, teaching styles, assessment, exam composition, and creating a syllabus.

NUED 60713 - Learning and Instruction in Nursing Education (3)

Prerequisites: Admission to PhD in Health Sciences program and permission of faculty. This course examines teaching and learning theories used in nursing education. Students will explore the roles and responsibilities of the educator in various settings and analyze applicable teaching strategies as appropriate to diverse groups of students.

NUED 60721 - Interprofessional Education Strategies (1)

Prerequisites: Completion of NUED/HNHS 60712 and permission of instructor. This course engages the student in principles of interprofessional education to foster safety and quality in team-based care and collaborative practice.

NUED 60722 - Curriculum and Program Development in Nursing (2)

This course examines the educator role in relation to curriculum and program development. Students will explore legal, professional, societal, and ethical dimensions influencing education at various levels.

NUED 60723 - Curriculum and Program Development in Nursing Education (3)

This course examines the educator role in relation to curriculum and program development. Students will explore legal, professional, societal, and ethical dimensions influencing education at various levels.

NUED 60732 - Evaluation in Nursing Education (3)

This course examines principles of evaluation applicable in nursing education. Analysis of methods for assessing individual, course, and program outcomes will occur.

NUED 60733 - Evaluation in Nursing Education (3)

This course examines principles of evaluation applicable in nursing education. Analysis of methods for assessing individual, course, and program outcomes will occur.

NUED 60742 - Principles of Simulation in Education (2)

Prerequisites: Completion of NUED/HNHS 60712 and admission to graduate program or permission of faculty. This course provides the student with the basic principles of healthcare simulation to enhance clinical judgment related to patient safety and delivery of quality care.

NUED 60783 - Teaching Practicum (3)

Prerequisites: NUED/HCHS 60712 and permission of faculty. This practicum experience enables students to apply knowledge and skills of education in varied learning settings. Students will incorporate multiple strategies for assessing, teaching, styles, assessment, exam composition, and creating a syllabus under the supervision of the professor of record.

NURS - Nursing**NURS 50003 - Advanced Pathophysiology (3)**

Prerequisites: Admission to Graduate Program or permission of instructor. Provides an understanding of advanced knowledge base of pathophysiologic processes underlying human illness. Content includes systems approach to pathophysiologic processes associated with altered health states in adults and children.

NURS 50013 - Advanced Health Assessment (3)

Prerequisites: Admission to Graduate Program or permission of instructor. This course focuses on developing comprehensive health assessment knowledge and skill required for advanced practice nursing practice across the life span. Diagnostic and inferential skills are emphasized through systematic approaches. The course includes didactic and practicum experiences.

NURS 50022 - Professional Aspects of the Advanced Practice Registered Nurse (2)

Prerequisites: Admission to Graduate Program. The course will facilitate transition to the role of the DNP prepared advanced practice registered nurse (APRN) through exploration of leadership, profession, and practice prospectives within the metaparadigm of nursing. Emphasis is placed on exploring roles within advanced practice, theories of change, collaboration, advocacy, autonomy, titling, certification, and licensure issues.

NURS 50053 - Advanced Pharmacotherapeutics (3)

Prerequisites: Admission to Graduate Program or permission of instructor. Emphasizes pharmacological principles fundamental to the selection of pharmacologic agents in altered health states in individuals across the lifespan. Includes the pharmacodynamic, pharmacokinetic and pharmacotherapeutic properties of drug categories and specific agents, clinical responses to the use of pharmacologic agents, efficacy and cost-effectiveness issues, client education, and adherence. Safe drug administration and prescribing practices will be addressed.

NURS 60000 - Independent Study: Advanced Nursing Practice (1.00-6.00)

This course is designed to afford students the opportunity to focus on a phenomenon of interest in advanced nursing practice.

NURS 60013 - Health Care Policy, Law and Ethics (3)

Prerequisites: Admission to the Graduate Program or permission of the instructor if in a graduate program in another department. This course integrates concepts of health care policy, law and ethics as a foundation for high quality cost-effective care and for participation in the design and implementation of care in health care delivery systems. Content includes knowledge of how health policy is formulated, how to affect this process, and how it impacts clinical practice and health care delivery. Philosophical/ethical/legal dimensions of health care policy, organization and economics are analyzed.

NURS 60030 - Professional Project (1.00-3.00)

Prerequisites: NURS 60043. Emphasis is placed on improving clinical, financial, or system outcomes through an evidence-based quality improvement project within a specified area of advanced practice and strategies for utilization within the practice setting. (This course is only offered as P/NC.)

NURS 60043 - Advanced Nursing Research and Theory (3)

Prerequisites: Admission to the Graduate Program. This course emphasizes the evaluation, utilization and integration of a wide variety of theories and research methodologies as a foundation for advanced nursing practice. Content includes application of theoretical frameworks to research designs to improve practice and patient outcomes. Evidenced-based interventions are analyzed followed by identification of outcome studies needed to improve practice.

NURS 60053 - Critical Inquiry in Advanced Nursing Practice (3)

This course emphasizes the utilization of knowledge gained from the inquiry process to provide high quality health care, initiate change and

improve health care delivery at all levels. Content includes the identification of clinical practice problems, evaluation of research in relation to those problems, application of the inquiry process to clinical issues as a basis for clinical and organizational decision-making and the use of information technologies in inquiry and research.

NURS 60303 - Seminar in Women's Health (3)

Explores holistic women's health in the contexts of history, culture, science. Examines the influence of race, gender, age, and class on women's embodied experiences and women's health. Reviews effect of oppression and influence of power and privilege on systems and processes. Analyzes the impact of social construction of gender on women as consumers and providers of health care. Reframes contemporary systems to challenge prevailing social values and actions; suggests alternative practices and research agendas. Promotes women's ownership and self-agency in naming misogyny, understanding health behaviors and selected problems; identifying choices in prevention and care. Introduces global considerations in women's health.

NURS 60413 - CNS Concepts I (3)

Prerequisites: NURS 50003, 50013, 50053, 60043. This course emphasizes the patient/client domain of CNS practice. The health maintenance, health promotion, and illness prevention needs of adults, individually and collectively, are examined through the introduction and implementation of the outcomes management role. Content includes management of commonly encountered symptoms, functional problems, and risk behaviors commonly encountered in adults.

NURS 60443 - Financial Concepts in Health Care (3)

Prerequisites: Admission to Master's or Doctoral Program. This course provides an overview of the financial concepts necessary to functioning in the advanced practice registered nurse (APRN) and clinical nurse leader (CNL) role as a case/outcomes manager. Content includes financial accounting, planning and control, resource management, and management information systems.

NURS 60444 - Clinical Interpretation of Assessment and Diagnostic Data (4)

This course emphasizes the interpretation of multi-dimensional assessment data for the purpose of planning, implementing and evaluating a course of care for the client receiving case management services. The relationship between these data and the health and illness needs of clients is used to provide a basis for the service requirements needed to maintain and restore clients' optimal health.

NURS 60714 - Diagnostic Reasoning in Adult and Geriatric Patients (4)

Prerequisites: NURS 50003, 50013, and 50053, and concurrent enrollment in NURS 60782. This course emphasizes the diagnosis and management of the common acute and chronic disruptions of health experienced by adult and geriatric patients across the lifespan. Students will assimilate knowledge from advanced assessment, advanced pathophysiology, and advanced pharmacotherapeutics to develop diagnoses and treatment plans within their scope of practice. This course completes the state recognized requirements that allow students to obtain prescriptive authority.

NURS 60716 - Diagnostic Reasoning (6)

Prerequisites: NURS 50003, 50004, and 50053. Emphasizes diagnosis and management of common acute and chronic disruptions of health experienced by adults across the lifespan. Concepts from advanced assessment, advanced pathophysiology, and advanced pharmacotherapeutics assimilated to develop diagnoses and treatment plans within the scope of practice. Clinical practice of diagnostic and treatment skills in 6 hours weekly. Completes nationally recognized requirements for prescriptive authority.

NURS 60724 - Diagnostic Reasoning in Pediatric Patients (4)

Prerequisites: NURS 50003, 50013, and 50053; co-requisite: NURS 60714. This course emphasizes the diagnosis and management of the common acute and chronic disruptions of health experienced by pediatric patients. Students will assimilate knowledge from advanced assessment, advanced pathophysiology, and advanced pharmacotherapeutics to develop diagnoses and treatment plans within their scope of practice. This course completes the state recognized requirements that allow students to obtain prescriptive authority.

NURS 60782 - Diagnostic Reasoning Combined Practicum (2)

Prerequisites: NURS 50003, 50013, and 50053, and concurrent enrollment in NURS 60714 or 60724. This precepted practicum allows

students to gain skill in the diagnosis and treatment of patients in their specialty (adult/geriatric or pediatric). Students will work closely with a preceptor to gain knowledge and skill in clinical diagnosis and prescription of drugs and other therapies. This practicum is part of the coursework needed to meet state recognized requirements that allow students to obtain prescriptive authority.

NURS 60811 - Advanced Oncology Practicum I (1)

Co-requisites: NURS 60813. This course provides an opportunity to explore evidence-based practice guidelines and research and their application to promote healthy lifestyles, monitor cancer risk, address integrative oncology practices, facilitate access to care, and reduce health care disparities for populations at risk and diagnosed with cancer, and cancer survivors. This course is taken concurrently with NURS 60813.

NURS 60813 - Advanced Oncology Nursing I (3)

Prerequisites: NURS 50003, 50013, and 50053. This course provides an introduction to cancer epidemiology and pathophysiology, cancer genetics, prevention, risk assessment and reduction for specific cancers, screening techniques, and diagnostic procedures and criteria to support patients, caregivers, and communities. This course is taken concurrently with NURS 60811.

NURS 60821 - Advanced Oncology Nursing II: Practicum (1)

Prerequisites: NURS 60813, 60811. The emphasis of this course is on the development of advanced clinical decision making skills in identifying multiple alterations resulting from cancer and cancer therapy. The course is taken concurrently with NURS 60823.

NURS 60823 - Advanced Oncology Nursing II (3)

Prerequisites: NURS 60813, 60811. Principles of cancer treatment, associated responses and symptom management are presented. Emphasis is on the development of advanced clinical decision making skills in identifying multiple alterations resulting from cancer and cancer therapy. Concurrent with NURS 60821.

NURS 60832 - Advanced Oncology Nursing Residency (2)

Prerequisites: NURS 60813, 60823, 60811, and 60821. Emphasis is on the application of critical thinking and diagnostic reasoning skills in advanced clinical decision making. Students assess, diagnose, and manage the care of oncology patients with a variety of cancers. The delivery of care and evaluation of role effectiveness across the full spectrum of the cancer care continuum are examined.

NURS 60834 - Palliative and End of Life Care (4)

Prerequisites: NURS 60823, 60821, or with permission of the faculty. This course provides students with advanced knowledge in the care of patients/families experiencing life-limiting progressive illness. Students will explore current and emerging models of care deliver; ranging from palliative care, hospice care, and family support services in bereavement. Students will engage in holistic assessment of pain and quality of life for patients with advanced illnesses in a variety of settings under the direction of a skilled clinician in palliative care. New trends, advances, and issues in home management of complex conditions, innovative delivery systems, legal, ethical and policy considerations will be explored.

NURS 70030 - Special Topics in Nursing (1.00-3.00)

Special topics and innovations in the broad field of nursing will be discussed.

PHIL - Philosophy

PHIL 50970 - Directed Studies in Philosophy (1.00-20.00)

Prerequisite: Permission of instructor.

PHYS - Physics

PHYS 50030 - Seminar in Contemporary Physics (1.00-4.00)

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 hours)

PHYS 50703 - Nonlinear Dynamics (3)

Prerequisite: Permission of instructor, PHYS 30553 is recommended. Characterization of chaos, routes to chaos, dissipative dynamical systems, Hamiltonian systems.

PHYS 50713 - Contemporary Topics in Physics (3)

Prerequisite: Permission of department chair. Regularly scheduled course on a subject of interest to students and faculty. Possible topics: Acoustics, Biophysics, Mathematical Physics, Modern Optics, and Nuclear Physics.

PHYS 50723 - Introduction to Solid State Physics (3)

Prerequisites: PHYS 30493 and MATH 30524. Crystal structure, lattice dynamics, free electron theory, band theory, optical, electric and magnetic properties of solids.

PHYS 50733 - Computational Physics (3)

Prerequisites: PHYS 20484 or 20485 and MATH 30524. Computational methods used in physics, systems of linear equations, eigenvalues problems, numerical solution of differential equations using Python..

PHYS 50743 - Stellar Astrophysics (3)

Prerequisite: Permission of department chair. Spectra and spectral line formation, stellar atmospheres and interiors, star formation and evolution.

PHYS 50753 - Topics in Biophysics (3)

Prerequisites: PHYS 20474 and 20484 or PHYS 20475 and PHYS 20485 or PHYS 10154 and 10164 and MATH 10524, or permission of instructor. This course will introduce students to a variety of biophysics topics focusing on the application of physics principles to biological systems. Topics covered might include membrane transport, impulses in nerve cells, external electric and magnetic fields, imaging, ultrasound, electromagnetic radiation, radiation therapy, nuclear magnetic resonance, crystallography, spectroscopy and signal analysis.

PHYS 50763 - Experimental Methods in Biochemistry and Biophysics (3)

Prerequisite: Permission of instructor. This course will introduce students to experimental techniques developed and used to investigate biological systems. It will discuss modern techniques used in the biomedical sciences, drug discovery and other biophysical and biochemical fields. The course includes lectures, demonstrations, and hands-on exercises in the TCU Biophysics Laboratory and on instrumentation at the Center for Commercialization of Fluorescence Technologies (CCFT) at the UNT Health Sciences Center campus. (Crosslisted as CHEM/PHYS 50763.)

PHYS 50773 - Cosmology (3)

Prerequisites: PHYS 30493 and permission of instructor or graduate standing. Three hours of lecture covering concepts including the early universe, dark matter, dark energy and a theoretical understanding of early galaxy formation and evolution.

PHYS 50813 - Meteorites, Asteroids, and Planets (3)

Prerequisite: GEOL 30213 or PHYS 30493, or permission of instructor. Three hours of lectures per week. An interdisciplinary course exploring the history and formation of the Solar System from the Big Bang through the formation and evolution of the planets. (Crosslisted as GEOL/PHYS 50813.)

PHYS 50970 - Special Problems in Physics (1.00-3.00)

Prerequisite: Permission of department chair. 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 hours)

PHYS 60003 - Methods of Advanced Physics (3)

Prerequisites: Graduate Standing. This is a first semester course for graduate physics majors that will teach new methods and provide refreshment of key skills and knowledge essential for success in graduate physics curriculum. Topics include mathematical methods across physics topics.

PHYS 60203 - Classical Mechanics (3)

Prerequisite: PHYS 30553 or equivalent. Variational principles and Lagrange equations, rigid body motion, Hamiltonian mechanics, canonical transformation, Lagrange and Poisson brackets, Hamilton-Jacobi theory, continuous systems and fields.

PHYS 60303 - Quantum Mechanics (3)

Prerequisite: PHYS 40113 or equivalent. Foundations of quantum mechanics, with applications to atomic, molecular, solid state, and nuclear physics.

PHYS 60313 - Quantum Mechanics (3)

Prerequisite: PHYS 60303. Continuation of 60303.

PHYS 60323 - Advanced Analysis & Modeling (3)

Prerequisites: Graduate Standing. Fundamental statistical analysis techniques, plotting, and data management. Introduction to Python programming, coding standards, documentation, and version control. Database query skills, introduction to instrument control systems.

PHYS 60403 - Electrodynamics (3)

Prerequisite: PHYS 40653 or equivalent. Electrostatic and magnetostatic fields. Time-dependent electromagnetic phenomena. Maxwell's equations and general electrodynamic theorems derivable therefrom. Electromagnetic radiation. Covariant formulation of the electromagnetic field equations.

PHYS 60413 - Electrodynamics (3)

Prerequisite: PHYS 60403 or permission of instructor. This is a second part of the two semester course. It includes electromagnetic radiation, coherent optics, diffraction, Fourier optics, wave guides, lasers and discussion of non-linear phenomena.

PHYS 60503 - Solid State Physics (3)

Prerequisites: PHYS 60303 and 60313 and 50723 or equivalent. Symmetry and crystal structure, ionic and covalent bonds, metals, band theory, thermal and optical effects in solids, and selected topics on magnetic properties, superconductivity and surface science.

PHYS 60603 - Statistical Physics (3)

Prerequisites: PHYS 30603 or equivalent and PHYS 60203 and 60313. General principles, kinetic theory, partition functions, Bosons and Fermions, linked cluster expansions, distribution functions, Brownian motion.

PHYS 60743 - Galactic & Extragalactic Astrophysics (3)

Prerequisite: Permission of department chair. Structure and evolution of star clusters and galaxies, evolution of individual stars and their kinematics, chemistry, and spectral energy distributions, the effects such evolution have on populations of stars with both simple and complex star formation histories. Qualitative and quantitative discussion of various types of galaxies (ellipticals, spirals, dwarf, starburst), including groups and clusters of galaxies, active galaxies, and galaxy evolution. The course introduces fundamental tools of Galactic astronomy, with topics including methods for assessing the size, shape, age, and dynamics of the Milky Way and other stellar systems.

PHYS 60753 - Gaseous Astrophysics (3)

Prerequisites: Permission of department chair. This course explores gaseous material in, surrounding, and between galaxies. Topics include radiative transfer, gas heating and cooling processes, and methods for analyzing and interpreting astrophysical data.

PHYS 60803 - Nonlinear Dynamics with Applications (3)

Prerequisite: PHYS 30553 or equivalent. Techniques for analyzing nonlinear and pattern-forming systems with a focus on biological systems. Topics covered may include maps, bifurcations, strange attractors, fractals, linear stability methods, amplitude equations, defects, instabilities and traveling waves, Lyapunov spectra and correlation functions. Students will learn to build models of biological systems and to use analytical tools to develop intuition and make quantitative predictions about the system's behavior.

PHYS 60823 - Optical Spectroscopy and Fluorescence (3)

Prerequisite: PHYS 40113 or equivalent. This course introduces students to the basics of light-matter interactions and advanced aspects of optical spectroscopy. Modern spectroscopic approaches used in chemical and biomedical sciences, drug discovery, and other fields are discussed. The course includes theoretical lectures and discussions of recent scientific works and discoveries published in peer-reviewed journals.

PHYS 60870 - Research Problems in Astronomy (1.00-20.00)

Prerequisite: Permission of department chair. Directed research in the following areas: Observational astronomy, Galaxy structure and evolution, Stellar populations, Large-scale structure

PHYS 60901 - Scientific Citizenship (1)

Prerequisites: Graduate standing. This is a graduate seminar for majors that will teach and provide refreshment of key basic skills and knowledge essential for student academic and career success within and beyond the TCU. Five-week topics will rotate on a two to

three year cycle and include topics such as: Career Skills, Scientific Public Communication, Intro to Scientific Programing, Publishing Grants, Basic Research Statistics, Research Policy, and Ethics and Diversity. Course may be repeated for credit.

PHYS 60960 - Physics Seminar (1.00-6.00)

Prerequisite: Graduate standing in Physics or permission of instructor. Participation in graduate colloquium and occasional presentation of appropriate topics to graduate faculty.

PHYS 60970 - Research Problems (1.00-6.00)

Directed research in the following areas: Atom optics, Electron-atom collisions, Molecular and solid state physics, Statistical physics, Positron annihilation spectroscopy, Biophysics.

PHYS 70133 - Atomic Collision Physics (3)

Prerequisites: PHYS 60303 and 60313. Theoretical, computational and experimental techniques used in electron, photon, atomic and molecular collision physics.

PHYS 70203 - Nuclear and Particle Physics (3)

Prerequisite: PHYS 60313. Nuclear and particle classifications and properties; nuclear two-body problem; nuclear models; passage of radiation through matter; detection methods and accelerators; nuclear and particle spectroscopy; gamma decay, beta decay and the weak interactions, Kaons, particle resonances; nuclear reactions; experiments at high energy.

PHYS 70303 - Advanced Quantum Mechanics (3)

Prerequisite: PHYS 60313. An introduction to the relativistic Dirac theory of the electron and to the non-relativistic quantum mechanical many-body problem.

PHYS 70413 - Statistical Physics (3)

Prerequisite: PHYS 60603. Lattice statistics, critical phenomena, propagators and methods for distribution functions, transport phenomena and irreversibility, second quantization and Green's functions.

PHYS 70503 - Molecular Physics (3)

Prerequisite: Graduate standing in physics or permission of instructor. Electronic, vibrational and rotational spectroscopy of polyatomic molecules. Applications of group theory to molecular spectra and structure. Fourier transform laser, electron paramagnetic resonance and other spectroscopic techniques.

PHYS 70703 - Chemical Physics (3)

Prerequisite: PHYS 60303. Quantum Chemistry, structure of molecules and intermolecular forces, molecular relaxation processes, light scattering, nonlinear optical methods, molecular beams, NMR and other experimental techniques.

PHYS 70743 - Advanced Topics in Astrophysics (3)

Prerequisite: PHYS 60870 or permission of department chair. Regularly scheduled course on advanced topics in astronomy and astrophysics, including the following: Stellar Atmospheres: Basic methods and applications of radiative transfer. Theory and interpretation of astronomical spectra: line profiles, LTE and non-LTE line formation, abundances, model atmospheres, curve-of-growth. Stellar Interiors: Solution of the equations of stellar structure, analytic approximations and theory relating to equilibrium stellar models, nucleosynthesis in massive stars, final phases of stellar evolution. Galactic Structure: The interstellar medium, galaxy kinematics, interacting galaxies, evolution and classification of galaxies, extragalactic radio sources, quasars, cosmological models.

PHYS 70753 - Advanced Topics in Biophysics (3)

Prerequisite: Permission of instructor. This course will cover advanced topics in biophysics based on current research and new developments. Selected topics may include fluorescence microscopy: Forster resonance energy transfer, fluorescence-based sensing and diagnostics, atomic force microscopy (AFM); nanophotonics and plasmonics; and computational biophysics; ensemble modeling, time series analysis, method of surrogate data, genetic algorithms.

PHYS 70771 - Non-Thesis (1)

Selected when enrolling only for non-thesis examination or preparation for the examination.

PHYS 70803 - Theoretical Atomic and Molecular Physics (3)

Prerequisites: PHYS 60303 and 60313. Theoretical study of electronic structure and molecular vibrations and rotation, Hartree-Fock and Many Body Perturbation Theory. Computer calculation of electronic structure.

PHYS 70903 - Quantum Optics (3)

Prerequisites: PHYS 60303 and 60313. Study of Laser Physics, interaction of light and matter, nonlinear phenomena and quantum nature of light.

PHYS 70980 - Thesis (1.00-6.00)

Prerequisite: Permission of department chair. A minimum of 3 hours of PHYS 70980 Thesis is required.

PHYS 70990 - Thesis (1.00-20.00)

Prerequisite: PHYS 70980 and admission to candidacy. A minimum of 3 hours of PHYS 70990 Thesis is required.

PHYS 80090 - The Teaching of Physics at the College Level (1.00-6.00)

Prerequisite: Graduate standing in physics and permission of instructor. Supervised preparation and delivery of lectures and demonstrations, and preparation and evaluation of examinations.

PHYS 90960 - Seminar in Theoretical Physics (1.00-6.00)

Prerequisites: Graduate standing and permission of instructor.

PHYS 90970 - Research Problems in Physics (1.00-20.00)

Prerequisites: Graduate standing and permission of department chair.

PHYS 90980 - Dissertation (1.00-6.00)

Prerequisites: Permission of department chair. A minimum of 6 hours of PHYS 90980 Dissertation is required.

PHYS 90990 - Dissertation (1.00-6.00)

Prerequisites: PHYS 90980 and admission to candidacy. A minimum of 6 hours of PHYS 90990 Dissertation is required.

PSYC - Psychology

PSYC 50213 - Interactive Data Analysis (3)

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.

PSYC 50401 - Neurobiology of Aging (1)

Prerequisites: permission of instructor. The current literature associated with the neurobiology of aging, modern research techniques and recent developments in neuroscience and aging research are discussed. This is a participation course in which advanced undergraduate and graduate students will present manuscripts, explain research hypotheses and methodologies and explain results. Open discussion of these papers will include faculty from Biology and Psychology. Topics presented will differ by semester. The course may be repeated three times (taken a maximum of four semesters in all.) (Crosslisted as BIOL/PSYC 50401.)

PSYC 50403 - Advanced Neuroscience (3)

Prerequisite: Senior or Graduate standing and PSYC 30463 or permission of instructor. An in depth analysis of the neural and endocrine components of normal and abnormal behavior with emphasis on classic studies in the field.

PSYC 50433 - Trauma & Relationships (3)

Prerequisite: Junior standing. This course is the first of a two-part series of multidisciplinary courses which examine children who have experienced complex developmental trauma, including outcomes, assessments, and interventions through a study of peer-reviewed articles and evidence-based interventions, including Trust-Based Relational Intervention (TBRI). TBRI is an attachment based, trauma-informed intervention designed to meet the complex needs of children through connecting, empowering, and correcting. Emphasis in this course will be attachment theory and the development of healthy relationships. Completing this course is recommended to work at The Hope Connection 2.0 therapeutic camp. (Crosslisted as CHDV/PSYC 50433.)

PSYC 50443 - Trauma & Behavior (3)

Prerequisites: CHDV/PSYC 50433 and junior standing. This course is the second of a two-part series of multidisciplinary courses which examine children who have experienced complex developmental trauma. Emphasis in Trauma and Behavior is on understanding the effects of trauma on the body, brain, and behavior, as well as demonstrating

trauma-informed intervention strategies and skills. Completing this course is recommended to work at The Hope Connection 2.0 therapeutic camp. (Crosslisted as CHDV/PSYC 50443.)

PSYC 50463 - Functional Neuroanatomy (3)

Prerequisite: Graduate or senior standing or permission of instructor. The fundamentals of functional neuroanatomy and neurophysiology with an emphasis on experimental and theoretical analysis of the basic brain behavior relationships. (Crosslisted as BIOL/PSYC 50463.)

PSYC 50493 - Advanced Personality (3)

Prerequisite: Senior or graduate standing in psychology and PSYC 40443, or permission of instructor. Current topics from the empirical and theoretical literature on personality.

PSYC 50503 - Curricular Practical Training Internship (3)

Prerequisites: 2.75 GPA in major, completion of either at least 20 credit hours in the department OR graduate status, and approval of department chair. Practical experience in the field of Psychology-related research that may involve work both at TCU and/or outside of TCU (but inside the state of Texas), including field work, internships, part-time jobs, and unpaid volunteer positions, all of which are to be centered around providing real-world training that would enhance the possibility of obtaining a career in a psychology-related research area. Must include a minimum of 260 work hours. This course may only be taken pass/no credit.

PSYC 50513 - Psychopharmacology (3)

Prerequisite: PSYC 10213 or 10514 or 10524, and junior standing. 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.

PSYC 50523 - Analysis of Variance (3)

Prerequisite: Permission 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. Primary attention is given to analysis of variance models as analytic techniques, but multivariate techniques such as regression and discriminant function models are also considered.

PSYC 50533 - Case Studies in Child Development (3)

Prerequisite: Junior standing. This course is designed to present an integrated and comprehensive overview of numerous issues in child development as well as treatments/solutions for those issues. This diverse array of developmental problems will be presented in a series of case-studies by professors from several departments as well as by community professionals who specialize in children's issues. This course is a requirement for the Child Development Minor as well as an elective course in Psychology. (Crosslisted as CHDV/PSYC 50533.)

PSYC 50563 - Theories of Development (3)

Prerequisite: Senior or graduate standing in psychology, or permission of instructor. Data and research methods related to the development of the human organism from its prenatal origins through old age.

PSYC 50583 - Cognition

Prerequisite: Senior or graduate standing in psychology, or permission of instructor. Current topics in the area of cognition including thinking, language, memory, decision making, and problem solving.

PSYC 50603 - Contemporary Learning Theory (3)

Prerequisite: Senior or graduate standing in psychology, or permission of instructor. Selected theoretical principles important for understanding complex behavior, and their recent extensions and application to human social behavior, autonomic and psychosomatic function, etc.

PSYC 51000 - Seminar on Ethics and Science (1.00-3.00)

Prerequisite: Senior or graduate standing in psychology or permission of instructor. The course will look at the range of ethical decisions that are required of scientists. We will focus on identifying ethical dilemma throughout the history of scientific discovery. Case studies will include both moral exemplars and instances of scientific misconduct. These case studies will cut across scientific disciplines and include examples from biology, medical research, biotechnology, and psychology.

PSYC 60000 - Special Study (1.00-6.00)

Prerequisite: Permission of department chair. Directed independent study in field of specialization.

PSYC 60553 - Conditioning and Learning (3)

Prerequisite: Graduate standing in psychology or permission of instructor. Basic research in the field of learning, emphasizing empirical study of classical conditioning, instrumental conditioning, generalization, discrimination and extinction.

PSYC 60561 - Laboratory in Conditioning and Learning (1)

Prerequisite: Concurrent or prior registration in PSYC 60553, or permission of instructor.

PSYC 60563 - Psychology of Human Learning (3)

Prerequisite: Graduate standing in psychology or permission of instructor. A review of research methods and theories of human learning with special emphasis on the acquisition of verbal and social behavior in both children and adults.

PSYC 60573 - Operant Conditioning: Theory and Application (3)

In-depth exploration of selected topics from the literature on operant conditioning, covering theory, methods, and applications.

PSYC 60583 - Cognition (3)

Prerequisite: Graduate standing in psychology, or permission of instructor. Current topics in the area of cognition including thinking, language, memory, decision making, and problem solving.

PSYC 60623 - Regression Analysis (3)

Prerequisites: Graduate standing in psychology Ph.D. program and permission of department chair. A basic overview of regression analysis. Typical topics include assumptions and diagnostics, multiple regression, unpacking interactions in multiple regression, simple slopes analyses, and nonlinear regression.

PSYC 60633 - Generalized Linear Models (3)

Prerequisites: Graduate standing in psychology Ph.D. program and permission of department chair. A general introduction to generalized linear models. Typical topics include distributions and inference for categorical data, contingency tables, generalized linear models, logistic regression, logit models for multinomial responses, loglinear models, models for matched pairs, multilevel models for categorical data,

PSYC 60643 - Structural Equation Models (3)

Prerequisites: Graduate standing in psychology Ph.D. program and permission of department chair. A general introduction to structural equation models. Typical topics include model notation, covariances, path analysis, multiple regression, causal models, linear models, structural equation models with observed variables, consequences of measurement error, measurement models, confirmatory factor analysis, and the general model.

PSYC 60653 - Multilevel/Hierarchical Models (3)

Prerequisites: Graduate standing in psychology Ph.D. program and permission of department chair. A general introduction to multilevel/hierarchical models. Typical topics include fitting regression models, simulation and regression inference, causal inference, multilevel structure, multilevel linear models, modeling time and change, debugging and speeding convergence, statistical power, and summarizing fitted models.

PSYC 60663 - Advanced Social Psychology (3)

Prerequisite: Graduate standing in psychology or permission of instructor. A survey of the literature of social psychology with emphasis upon recent research.

PSYC 60673 - Advanced Structural Equation Modeling (3)

Prerequisites: Graduate standing in psychology Ph.D. program and permission of department chair, and PSYC 60643. This course is designed for graduate students who have taken an introductory course in structural equation modeling (SEM) and who are interested in exploring advanced topics within this framework. The class is structured as a seminar. Students select topics of particular interest which they research and present to the class. Some days may be designated as lab days when students analyze data sets provided by the instructor or other students.

PSYC 60683 - Advanced Comparative Psychology (3)

Prerequisite: Graduate standing in psychology or permission of instructor. The development of anatomical structures, environmental factors and behavior of species throughout the animal kingdom. Emphasis is on interspecies comparison and the understanding of human behavior in terms of its evolutionary antecedents.

PSYC 60723 - Motivation (3)

Prerequisite: Graduate standing in psychology or permission of instructor. Concepts, theories and systematic investigations of motivation, covering historic lines of development with particular emphasis on recent contributions.

PSYC 60743 - Longitudinal Data Analysis (3)

Prerequisites: Graduate standing in psychology and permission of department chair. A general introduction to longitudinal data analysis. Typical topics include longitudinal study designs, longitudinal data management, univariate and multivariate ANOVA for repeated measures, multilevel model for change, latent growth curve modeling, nonlinear change, random and fixed effects, and summarizing fitted models.

PSYC 60823 - Group Processes (3)

Prerequisite: PSYC 60663 or permission of instructor. Theories and systematic investigations in the social psychological literature on group processes with a historical as well as contemporary focus.

PSYC 60833 - Attitudes (3)

Prerequisites: PSYC 60663 or permission of instructor. Theories and systematic investigations of attitude change with a historical as well as contemporary focus.

PSYC 60903 - Developmental Trauma Capstone Course (3)

This course is the capstone course for the Master of Science in Developmental Trauma program. Students complete a treatise and several professional development activities under the advisement of a faculty member in the program. (Crosslisted as CHDV/PSYC 60903)

PSYC 60913 - Evolutionary Social Psychology (3)

Prerequisites: Graduate standing in psychology Ph.D. program and permission of department chair. Students will learn how to use concepts in evolutionary biology to derive novel predictions about research topics in social psychology and will review current research employing this approach.

PSYC 60923 - Social Cognition (3)

Prerequisites: Graduate standing in psychology Ph.D. program and permission of department chair. Reviewing and presenting theoretical developments in social cognition; designing, conducting, and reporting original research projects.

PSYC 60933 - Writing Psychology Research (3)

Prerequisites: Graduate standing in psychology Ph.D. program and permission of department chair. Writing and submitting empirical articles for psychology research journals.

PSYC 60943 - Behavior Change (3)

Prerequisites: Graduate standing in psychology Ph.D. program and permission of department chair. Reviewing and presenting theoretical developments in the psychology of behavior change; designing, conducting, and reporting original research projects.

PSYC 70130 - Teaching of Psychology (1.00-20.00)

Prerequisite: MS degree (or Master's equivalency with 30 hours of coursework at TCU) and permission of department chair. Supervised curriculum development includes (but is not limited to) the preparation and delivery of lectures, leading classroom discussions, and student assessment.

PSYC 70980 - Thesis (1.00-6.00)

Prerequisites: Graduate standing and permission of director of graduate studies in psychology. A minimum of 3 hours of PSYC 70980 Thesis is required.

PSYC 70990 - Thesis (1.00-20.00)

Prerequisites: PSYC 70980 and admission to candidacy. A minimum of 3 hours of PSYC 70990 Thesis is required.

PSYC 80100 - Special Topics in Quantitative Methods (1.00-20.00)

Prerequisite: Permission of department chair. Seminars or other special courses.

PSYC 80200 - Special Topics in Learning and Motivation (1.00-20.00)

Prerequisite: Permission of department chair. Seminars or other special courses.

PSYC 80300 - Special Topics in Development and Cognition (1.00-20.00)

Prerequisite: Permission of department chair. Seminars or other special courses.

PSYC 80400 - Special Topics in Physiological Psychology (1.00-20.00)

Prerequisite: Permission of department chair. Seminars or other special courses.

PSYC 80500 - Special Topics in Social Psychology and Personality (1.00-6.00)

Prerequisite: Permission of department chair. Seminars or other special courses.

PSYC 80600 - Special Topics in Contemporary Psychology (1.00-20.00)

Prerequisite: Permission of department chair. Seminars or other special courses.

PSYC 90100 - Advanced Studies in Quantitative Methods (1.00-10.00)

Prerequisite: Permission of department chair. Individual study or research.

PSYC 90200 - Advanced Studies in Learning and Motivation (1.00-20.00)

Prerequisite: Permission of department chair. Individual study or research.

PSYC 90300 - Advanced Studies in Development and Cognition (1.00-20.00)

Prerequisite: Permission of department chair. Individual study or research.

PSYC 90400 - Advanced Studies in Physiological Psychology (1.00-20.00)

Prerequisite: Permission of department chair. Individual study or research.

PSYC 90500 - Advanced Studies in Social Psychology and Personality (1.00-20.00)

Prerequisite: Permission of department chair. Individual study or research.

PSYC 90600 - Advanced Studies in Contemporary Psychology (1.00-20.00)

Prerequisite: Permission of department chair. Individual study or research.

PSYC 90980 - Dissertation (1.00-20.00)

Prerequisite: Permission of the department chair. A minimum of 6 hours of PSYC 90980 Dissertation is required.

PSYC 90990 - Dissertation (1.00-20.00)

Prerequisite: PSYC 90980 and admission to candidacy. A minimum of 6 hours of PSYC 90990 Dissertation is required.

RAMA - Ranch Management

RAMA 50213 - Ranch Business Management (3)

Business law as applied to the livestock producer, business organization, estate planning, labor relations, application of management principles to ranching.

RAMA 50503 - Range Management (3)

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.

RAMA 50603 - Ranch Records and Finance (3)

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.

RAMA 50803 - Marketing of Livestock and Meats (3)

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.

RELI - Religion**RELI 50130 - Seminar in Biblical Studies (1.00-6.00)**

Prerequisite: approval of instructor. A particular topic in Biblical Studies will be selected for detailed study. (3-6 semester hours)

RELI 50970 - Directed Study in Religion (1.00-20.00)

1 - 6 semester hours

RLEM - Ralph Lowe Energy Management**RLEM 60070 - Directed Studies (1.00-3.00)**

Prerequisites: Admission into the Ralph Lowe Energy Management Graduate Certificate Program. The RLEM Directed Studies class will address identified weaknesses for each student in a specific technical or analytical skillset on an individual basis. While all students may take the same class with a common topic, each student will engage in critical investigation and interaction with a mentor to develop a knowledge base of a previously unknown component of the energy industry.

RLEM 61003 - Oil & Gas Development (3)

Prerequisites: Admission into the Ralph Lowe Energy Management Graduate Certificate Program. This course is a broad overview of the geologic, engineering, and business sides of the oil and gas industry, focusing on the small, independent operators. The course will acquaint students with the major steps in the production of oil and gas, from developing a prospect to delivering the raw product. Students will also become acquainted with the legal, regulatory, and environmental issues encountered in drilling for oil and gas. Basic understanding of the geology of oil and gas. Familiarity with the business, financial, and legal aspects of oil and gas exploration and production. Familiarity with how a well is drilled, completed, and produced.

RLEM 61011 - Energy and Global Geostrategy Seminar 1 (1)

Prerequisites: Admission into the Ralph Lowe Energy Management Graduate Certificate Program. This course introduces students to energy issues from a geopolitical perspective and provides them with relevant professional development opportunities. The opportunities include field trips to energy industry sites (i.e. drilling rig, natural gas drilling sites, windfarm, solar, and hydroelectric plants), professional conferences (i.e. Solar Texas Power Conference, Wind Power Finance and Investment Summit), off campus industry classes (OCGI Evaluating Shale Resources, Training for Renewable Energy Experts), and active participation in the Ralph Lowe Energy Management (RLEM) internship/mentorship program. Students will initiate the required collaborative capstone project. Professional development and off campus industry classes will be customized to meet the specific needs of the students. Students enrolled in the RLEM program are required to complete a combined total of 18 professional development hours (activities in RLEM 61011 and 61021).

RLEM 61013 - Energy in the 21st Century (3)

Prerequisites: Admission into the Ralph Lowe Energy Management Graduate Certificate Program. This is an interdisciplinary, team taught course in four sections that provides a broad-based overview of energy: its exploration and production, its controversies, its geopolitics and the process by which it is provided.

RLEM 61021 - Energy and Global Geostrategy Seminar 2 (1)

Prerequisites: Admission into the Ralph Lowe Energy Management Graduate Certificate Program. This course introduces students to energy issues from a geopolitical perspective and provides them with relevant professional development opportunities. The opportunities include field trips to energy industry sites (i.e. drilling rig, natural gas drilling sites, windfarm, solar and hydroelectric plants), professional conferences (i.e. Solar Texas Power Conference, Wind Power Finance and Investment Summit), off campus industry classes (OCGI Evaluating Shale Resources, Training for Renewable Energy Experts), and active participation in the Ralph Lowe Energy Management (RLEM) internship/mentorship

program. Students will complete the required collaborative Capstone Project. Professional development and off campus industry classes will be customized to meet the specific needs of the students. Students enrolled in the RLEM program are required to complete a combined total of 18 professional development hours/activities in RLEM 61011 and 61021.

RLEM 61023 - Overview of Petroleum Engineering (3)

Prerequisites: Admission into the Ralph Lowe Energy Management Graduate Certificate Program. Petroleum engineering concepts and technology that are needed to find and produce oil and gas are discussed. This course covers drilling and completions, production operations, reservoir engineering, and reservoir management. When possible, industry professionals will visit to discuss current technologies for producing hydrocarbon fluids. Students will be expected to prepare and present a case study using current literature.

RLEM 61031 - Ethics and Energy (1)

Prerequisites: Admission into the Ralph Lowe Energy Management Graduate Certificate Program. This course will examine ethical decision making in the context of the energy industry and a focus on fossil fuels. This course will explore the psychological and philosophical foundations of moral judgment and reasoning and introduce strategies that support ethical decision-making. Ethical dilemmas and case studies will focus on the benefits and risks of using fossil fuels to meet our energy needs.

RLEM 61033 - Global Energy Sources, Uses, and Issues (3)

Prerequisites: Admission into the Ralph Lowe Energy Management Graduate Certificate Program. This course focuses on the physical and economic infrastructure through which energy resources are obtained, transformed and used, and energy related challenges and responses.

RLEM 61041 - Environmental Issues in Energy (1)

Prerequisites: Admission into the Ralph Lowe Energy Management Graduate Certificate Program. This course is designed to ask students to move beyond just learning the science behind environmental issues in energy but to give them the framework to assist students to become facilitators in the discussion of these issues with multiple stakeholders. This course is also designed to give students practice in analyzing critical constraints in energy development through the use of scenarios.

SOCI - Sociology**SOCI 50610 - Directed Study in Sociology (1.00-9.00)**

Prerequisite: permission of instructor, and graduate standing. Supervised reading, research and completion of a substantial paper. May be taken for credit ranging from 1-6 semester hours and may be taken more than once.

SOWO - Social Work**SOWO 61803 - Professional Foundation (3)**

Students will learn about the social work profession, critically explore a variety of social problems, and review how social workers seek to address these problems. Topics include the history of social work, issues faced by marginalized groups with an emphasis on gender and sexism, careers in social work, and advocacy efforts at the micro, mezzo, and macro levels of social work practice.

SOWO 61813 - Research Methods in Social Work (3)

Students will learn the scientific method and how to conduct evidence based practice. Students will learn how to find, read, and assess research studies found in academic articles and apply what they learn to social work practice. Knowledge, values, and skills taught in this course align with the generalist practice approach.

SOWO 61823 - Diversity and Social Justice (3)

Students will learn to think critically about diversity. This course helps students distinguish between myths and realities related to cultural, ethnic, gender, sexual orientation, age, and ability differences. The course stresses experiential content and learning, and applies to both American and global contexts.

SOWO 61833 - Macro Practice (3)

This course introduces theories and skills related to macro social work practice and focuses on issues related to spatial justice and critical competence. It utilizes an interprofessional approach by examining the various macro systems that impact communities and ways in which community organizations utilize community assets to create large-scale

change. This course introduces and utilizes skills related to community organizing, community development, community and organizational assessments and evaluations, and community and organizational research.

SOWO 61843 - Human Behavior and the Social Environment 1 (3)

This course focuses on physical, cognitive, and socioemotional dimensions of development from prenatal stage into adolescence. Through developmental theories and research, the course examines the effects of trauma, identity characteristics, group membership, and marginalization on children's developmental outcomes. Special emphasis is placed how the environment influences outcomes such as trauma, violence, healthcare access, and policies that specifically affect women and girls.

SOWO 61853 - Human Behavior and the Social Environment 2 (3)

The course focuses on physical, cognitive and socioemotional development during emerging to late adulthood. It critically examines the effects of trauma, identity characteristics, group membership and marginalization on healthy aging. Although the course is part of a two-course sequence, it can be taken independently. It can also be taken concurrently, before, or after SOWO 61843.

SOWO 61863 - Social Welfare Policies and Services (3)

This course covers the historical development of social policies and the impact of these policies on various people groups, particularly within the U.S. context. Students will engage fundamental knowledge and skills related to policy analysis and social welfare issues as well as methods for working toward policy change.

SOWO 61873 - Micro Practice (3)

Students will learn how to conduct an initial client interview. Skill areas include informed consent, gathering data, motivation and rapport, assessment, goal setting, and referrals and resources. Knowledge, values, and skills taught in this course align with the generalist practice approach.

SOWO 61883 - Field Education 1 (3)

This foundation-level field seminar course provides students the opportunity to integrate knowledge, values, and skills learned in the classroom with what they will do in the internship setting. In this course, students begin to work in the field of social work practice; the course is a bridge to becoming a professional social worker. Through experiences in the student's agency and field seminar, students gain a sense of professional identity and apply social work knowledge and skills in human service delivery. There are additional fees associated with this course. A grade of B or better is required in SOWO 61883 to continue to SOWO 61893.

SOWO 61893 - Field Education 2 (3)

Prerequisite: Grade of B or better in SOWO 61883. This foundation-level field seminar course is a continuation of SOWO 61883. In this course, students continue opportunities to integrate knowledge, values, and skills learned in the classroom with what they will do in the internship setting. There are additional fees associated with this course.

SOWO 63500 - Directed Study in Social Work (1.00-6.00)

Prerequisites: Admittance to the MSW Program or by instructor permission. This course is designed for students who undertake readings or projects in social work in consultation with an instructor.

SOWO 63503 - Treatment of Addictions (3)

Prerequisite: Admittance to the MSW Program or by instructor permission. Through this course, students will examine the various theories and methods of the treatment of addictions. Students will learn to engage, assess, intervene, and evaluate interventions among various client populations that are affected by addictions.

SOWO 63513 - Social Work and the Law for Children and Families (3)

Prerequisite: Admittance to the MSW Program or by instructor permission. This course introduces social work students to the law and legal systems, legal issues for professional social workers, and legal issues pertaining to social work practice, with a specific focus on how laws and legal systems impact children and families.

SOWO 63523 - Advanced Family Treatment (3)

Prerequisites: SOWO 61893. This course builds on the content from previous practice classes and students learn advanced practice content that encompasses knowledge and skills to work with families as client groups. This content includes engaging clients in an appropriate working relationship, identifying issues, problems, needs, resources, and

assets; collecting and assessing information; and planning for service delivery.

SOWO 63533 - Global Poverty, Inequality, and Social Justice (3)

Prerequisites: SOWO 61823 or equivalent credit. This course explores questions of contemporary global poverty, economic and social inequality, social injustice, and environmental degradation. The course perspective includes Western and non-western interpretations of poverty, inequality, and social injustice to ensure that students evaluate a diverse set of theories and understandings about these social problems.

SOWO 63543 - Contemporary Topics in Social Work (3)

Prerequisites: Admittance to the MSW Program or by instructor permission. This course is constructed around current interests in social work. Possible course topics would evolve as current events and evolutions in the profession make these important for further investigation.

SOWO 63553 - Social Work Practice in Health Care (3)

Prerequisite: Admittance to the MSW Program or by instructor permission. This course exposes students to some of the varied practice settings that exist under the umbrella of medical social work. It builds on generalist practice classes and interprofessional education to provide students with an opportunity to enrich their social work knowledge and skills inside a healthcare context.

SOWO 63563 - Comparative Social Policy (3)

Prerequisite: SOWO 61863. Students will study and compare complex issues that affect social and economic justice through social policy and social service delivery. Students will gain an understanding of global problems such as poverty, homelessness, hunger, and health care, and how each country responds through policy and service delivery.

SOWO 63573 - Interventions with Children and Families (3)

Prerequisite: Admittance to the MSW Program or by instructor permission. This course is designed to provide students with a strong foundation for working in micro, mezzo, and macro-practice contexts with children, adolescents and their families, with an emphasis on theory, empirical research, and practical application of knowledge. Through course readings, class discussions, and class assignments, students will become familiar with guiding child and family theories and interventions, the importance of cultural humility when working within family systems, evidence-based practices for therapeutic, school, and community-based settings that serve families, and about the current state of child welfare services.

SOWO 63583 - Program Development, Grant Writing, and Fund Raising (3)

Prerequisites: SOWO 61863. This course provides students with the knowledge and skills to plan and design agency programs and write grant proposals to secure funding for agency initiatives. Emphasis is on identifying and using evidence based practice strategies in program development to ensure that clients receive the most effective services.

SOWO 63593 - Crisis Intervention (3)

Prerequisites: SOWO 61873 or equivalent credit. Through this course, students gain the knowledge and skills needed to assess, engage, and intervene in crisis situations. Students learn how to respond to crisis with diverse clients in a variety of situations and settings. Crisis Theory is used as a counterpoint and foundation for crisis intervention.

SOWO 63603 - Intimate Partner Violence (3)

Prerequisites: Admittance to the MSW Program or by instructor permission. The focus of this course will be on models of service delivery to address the impact of intimate partner violence across the lifespan. The course will provide an overview of conceptual models of violence, consider risk factors and trauma effects of victimization and suggest clinical and macro level interventions. Theories for abuse behavior including socio-cultural theories, psychological theories, and ecological frameworks will be reviewed. The intersectionality of culture, ethnicity, place, age, sexual orientation, immigration status as well as global issues will be addressed.

SOWO 65803 - Administration and Management (3)

Prerequisite: Admittance to the MSW Program or by instructor permission. This advanced methods course in human services administration and management covers topics in organizational theory, program and agency planning, performance appraisal, and financial management. The course prepares students to assume leadership roles in human service organizations and social change systems.

SOWO 65813 - Evaluation Research (3)

Prerequisite: Admittance to the MSW Program or by instructor permission. This advanced course, building on prior coursework covering research concepts and methods, equips students with specialized knowledge and skills needed to rigorously evaluate social work interventions.

SOWO 65823 - Field Seminar 3 (3)

Prerequisites: Admittance to the MSW Program or by instructor permission. The Field Seminar course (SOWO 65823) is the first field education course of a two consecutive semester requirement. The course is seminar style, primarily discussion-based. The course facilitates student application of classroom learning in a social work field setting and allows students the opportunity to demonstrate their advanced level competency in all nine Council on Social Work Education (CSWE) areas of social work practice competency.

SOWO 65833 - Perspectives on Mental Health Practice (3)

Prerequisite: Admittance to the MSW Program or by instructor permission. Through this course, students learn about major forms of emotional distress and mental disorders in children, youth, and adults. The course provides an introduction to clinical syndromes and diagnostic methodology, and challenges students to embody social work values when assessing individuals who meet the diagnostic criteria for mental disorder(s).

SOWO 65843 - Trauma-Informed Social Work Practice (3)

Prerequisites: SOWO 65883. The purpose of this course is to provide an overview of current, multi-system level definitions of trauma (individual, family, organizational, community, historical, etc.) and an introduction to recovery-oriented and ecologically and culturally sensitive trauma-informed social work practice. Building on this foundational knowledge base, students will apply course concepts and principles to their own practice areas of interest as well as identify the importance of ongoing professional development and personal self-care.

SOWO 65853 - Applied Evaluation Research (3)

Prerequisites: SOWO 65813. This course continues the research project designed in SOWO 65813 and has the student finalizing and presenting their research in various outlets.

SOWO 65863 - Field Seminar 4 (3)

Prerequisites: SOWO 65823. The Field Seminar course (SOWO 65623) is the second field education course of a two consecutive semester requirement. The course is seminar style, primarily discussion-based. This course facilitates student application of classroom learning in a social work field setting and allows students the opportunity to demonstrate their advanced level competency in all nine Council on Social Work Education (CSWE) areas of social work practice competencies.

SOWO 65873 - Advanced Practice (3)

Prerequisite: Admittance to the MSW Program or by instructor permission. This course builds on the generalist perspective and focuses on relating a range of intervention theories to various client populations within social work settings. Theoretical underpinnings and critical examination of various treatment approaches are explored.

SOWO 65883 - Field Education 3 (3)

Prerequisite: Admittance to the MSW Program or by instructor permission. Advanced field education helps to extend and deepen the development of social work knowledge and practice skills with clients. Supervised by experienced social workers, students gain autonomy and independence in working in agency settings. Students develop leadership skills, particularly in the areas of social work with children and families and in health and mental health settings.

SOWO 65893 - Field Education 4 (3)

Prerequisite: SOWO 65883 with a B or better grade. In this final field education course, students continue to extend and deepen their development of social work knowledge and practice skills with clients. Supervised by experienced social workers, students gain autonomy and independence in working in agency settings. Students develop leadership skills, particularly in the areas of social work with children and families and in health and mental health settings.

SPAN - Spanish**SPAN 50203 - Graduate Study in Hispanic Topics (3)**

Special topics in Hispanic literature, culture, language, or pedagogy. May be repeated for credit, up to 9 credits. Taught in Spanish.

STCO - Strategic Communication**STCO 50123 - Foundations and Theory (3)**

The course will provide an introduction to the foundations of strategic communication, with a focus on theories of advertising, public relations, and media communication and how theory and practice inform each other. Students will discuss and analyze significant issues in strategic communication, incorporating related literature, research areas, and professional practice. Students must earn a C or higher in each strategic communication course required for credit toward completion of STCO major degree requirements.

STCO 50133 - Management of Public Relations and Advertising Departments/Firms or Agencies (3)

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.

STCO 50183 - Management and Leadership (3)

This course will give students a survey of some of the latest management and leadership communication theories and practices, including a new sense of social responsibility. Students will apply theories to solve problems in existing case studies. Students must earn a C or higher in each strategic communication course required for credit toward completion of STCO major degree requirements.

STCO 50333 - Advertising and the Consumer (3)

This course presents theories and models from psychology, sociology, marketing and communications to examine consumers -- how they react to advertising and promotion and their subsequent consumer behavior. Students must earn a C or higher in each strategic communication course required for credit toward completion of STCO major degree requirements.

STCO 50383 - History of Strategic Communication (3)

Seminar designed to explore the history of strategic communication. Issues discussed in this class will improve historical knowledge about the mass media and give a foundation for understanding the professional development of strategic communication. Students must earn a C or higher in each strategic communication course required for credit toward completion of STCO major degree requirements.

STCO 50523 - Information Law and Policy (3)

Prerequisites: Open to graduate students in Strategic Communication. Undergraduate students must have passed STCO 46403 (Law) with a grade of C or higher and must have permission of the instructor. Advanced media law course for students focusing on contemporary challenges faced by strategic communication professionals. The course emphasizes how the law of mass communication has adapted to new and emerging technologies such as the Internet and social media, with a particular focus on privacy, access to information, and intellectual property. Students will learn and apply normative legal research methods to answer modern questions relevant to professional communicators. Students must earn a C or higher in each strategic communication course required for credit toward completion of STCO major degree requirements.

STCO 50970 - Special Topics (1.00-20.00)

Prerequisites: Permission of administrator in the Department of Communication. Specific issues requiring independent or small group research and study in strategic communication. Students must earn a C or higher in each strategic communication course required for credit toward completion of STCO major degree requirements.

STCO 53483 - Crisis Communication (3)

Prerequisite: Grade of C or higher in each of the gateway courses: STCO 11103, STCO 16103, STCO 23113, and STCO 23123 and a combined GPA of 2.5 or higher in these courses, or Graduate admission. Non-majors require permission of the instructor. This course examines the way issues of public concerns are detected by news media and strategic communication professionals as the issues develop, and it examines how the crisis management and communication of government, corporate and nonprofit organizations' concerns affect public perceptions and opinions. The course emphasizes practical application of theories, strategies and tactics of communicating to multiple stakeholders in crisis situations. Students must earn a C or higher in each strategic

communication course required for credit toward completion of STCO major degree requirements.

STCO 60113 - Research Methods (3)

Introduction to quantitative and qualitative methods commonly used in journalism and strategic communication.

STCO 60123 - Theory (3)

An introduction to the theories of advertising, public relations, and mass communication, with attention to how theories inform practice and practice informs theory.

STCO 60133 - Ethics (3)

Principles of media and strategic communication ethics, codes and practices. Provides students with theoretical foundation to identify and think critically about ethical issues in strategic communication and media, with focus on applying principles to contemporary issues and practices.

STCO 60173 - Project in Strategic Communication (3)

This course will allow students an opportunity to take a workplace problem that has a strong research component and develop it for course credit and for application on the job. Projects could be creating a campaign, developing a program for a special public, such as an ethnic group or a particular age group, exploring new policies to solve workplace difficulties or potential problems, studying the way different publics view the organization with the idea of placing that opinion more in line with management objectives, planning a Web site or any other workplace assignment that lends itself to research and writing a proposal

STCO 60183 - Global Strategic Communication (3)

This course examines the theories and practices of effective communication messaging for a global audience. Students will also learn how technology, culture, and social structures impact strategic communication in an international arena.

STCO 60193 - Global Cases and Campaigns (3)

A study of persuasive cases and campaigns that are international in scope. Documented cases will be reviewed for insight into elements that contributed to the effectiveness of the effort, and campaigns, such as some United Nations health campaigns that will be studied for their tactics and strategy as adjusted for different cultures.

STCO 60203 - Integrated Marketing Communications (3)

This course provides an introduction to the components and considerations involved in integrated marketing communications (IMC) strategy decisions. The course will consist of an overview and discussions of assigned readings and cases, guest speakers, and either a research project or applied project for a client.

STCO 60970 - Special Topics (1.00-3.00)

Specific issues requiring independent or small group research and study in strategic communication. (Maximum of 3 hours credit per semester; may be repeated for a maximum of 6 credit hours.)

STCO 60980 - Special Problems in Strategic Communication (1-3)

A conference course designed to give an individual student or group of students opportunities for additional specialized work in a particular area of concentration. (Maximum of 3 hours credit per semester; may be repeated for a maximum of 6 credit hours.)

STCO 61423 - Feature Writing (3)

Prerequisites: Strategic Communication graduate student status, or by permission of instructor. Students learn and practice writing features, opinion pieces and other reports for target audiences. Emphasis on developing style, content and structure for a variety of print and digital formats for target audiences.

STCO 63143 - Sports Communication (3)

Prerequisites: Permission of instructor. An exploration and study of historical and current sports advertising, sports in advertising, licensing, endorsements, team promotion and marketing, and career paths.

STCO 63803 - New Media (3)

Prerequisites: Strategic Communication graduate status, or by permission of instructor. Introduces the fields of advertising and public relations in new media. Topics covered include digital persuasion techniques, interactive media theory, new media planning and measurement, analytics, social media and interactive design considerations.

STCO 66723 - Social Responsibility (3)

Prerequisites: Strategic Communication graduate student status, or by permission of the instructor. Examines the global Corporate Social Responsibility movement and explores its challenges. Students examine how to bridge successful partnerships between corporations and causes, how to improve the quality of life for employees and communities and to measure outcomes. Students will embark on a hands-on project that uses their communication and leadership skills.

STCO 67523 - Crisis Communication (3)

Prerequisites: Strategic Communication graduate student status, or by permission of instructor. This course covers the way issues of public concerns are detected by news media and strategic communication professionals, how communication of government policies as well as corporate and nonprofit organizations' concerns affect public opinion, and analyzes a variety of crises, using real cases as examples.

STCO 67533 - Case Studies (3)

Prerequisites: Strategic Communication graduate student status, or by permission of instructor. Use of the case study method to scrutinize organizational events and problems to discover best practices and solutions, based on theory, principles and models related to public relations and advertising. Course content may focus on advocacy and public affairs cases when the Texas Legislature is in session.

STCO 68300 - Internship (1.00-6.00)

Prerequisites: Strategic Communication graduate student status, or by permission of instructor. Practical experience in advertising, public relations, or related communication disciplines in a workplace setting. Students develop and apply theoretical and analytical understanding of strategic communication concepts to experience in the workplace setting. The course requires a minimum of 75 hours worked for each semester hour credit.

STCO 70980 - Thesis (1.00-6.00)

Student completes a thesis proposal and submits it to her/his committee for approval. Then the student must complete a literature review and a research methodology plan and submit both to the committee for approval. Students who intend to conduct research with human subjects will need to submit a research proposal to the Departmental Review Board.

STCO 70990 - Thesis (1.00-6.00)

Student completes the research for the thesis and writes the results and conclusion. The student submits the final thesis one month before the deadline for final submission for the committee for a defense. After the committee votes, the student must finalize the work.

WGST - Women & Gender Studies

WGST 50103 - Feminist/Queer Inquiry (3)

Prerequisites: WGST 20003. This interdisciplinary course considers key concepts in contemporary feminist theories as they are applied in praxis. Drawing on readings from a range of feminist scholarly traditions, students carry out inquiry projects grounded in key historical trends and social issues linked to the study of gender and sexuality in varying cultural contexts.

WGST 60003 - Colloquium on Feminist Theory (3)

This course aims to provide graduate students with a thorough grounding in the basics of feminist theory since the early modern period. We will cover the major themes of education, biological determinism vs. social constructivism, feminist analysis, psychoanalysis, and language theory, as well as other approaches specific to disciplinary background (visual, historical, literary analysis).

WGST 60973 - Directed Study in Women & Gender Studies (3)

Prerequisites: For graduate students enrolled in the Women Gender Studies Certificate program. Directed Study in Women and Gender Studies.

WGST 71813 - Curriculum Studies Seminar (WGST) (3)

Prerequisites: Must be admitted to Graduate Education. A series of seminars that explore issues in curriculum studies with interdisciplinary attention to women, gender, and sexuality studies (WGST). Each seminar in the series explores particular issues, such as: feminist theory methodology, queer theory, Noddings care, new material feminism, etc. Specific offerings will be listed as, EDUC 72813: Curriculum Studies Seminar (WGST): Feminist Theory Methodology, for example. This

course may be taken for Education and WGST graduate credit. May be repeated for credit.

WGST - Women and Gender Studies

WRIT - Writing

WRIT 55103 - Style (3)

Prerequisites: ENGL 10803, 20803, and at least one 10000- or 20000-level ENGL/WRIT course. Analysis of the ways in which writers deploy vocabulary and syntax to create a prose voice that is responsive to the demands of audience, purpose, and occasion. Student cannot receive credit for WRIT 55103 and WRIT 30263.

WRIT 55113 - Multimedia Authoring Image and Hypertext (3)

Investigates the relationship between new media, culture, and design, with particular emphasis on multimodal, interactive texts. Course emphasizes concepts in rhetoric, multimedia, and authorship in digital environments. Students design and compose a variety of multimedia products incorporating print, image, and other modes. Student cannot receive credit for WRIT 55113 and WRIT 40163.

WRIT 55123 - Language Rhetoric and Culture (3)

Prerequisites: ENGL 10803, 20803, and at least one 10000- or 20000-level ENGL/WRIT course. Explores the role of language in human communication and culture, with attention to the implications of language ideologies to various forms of communicative interaction. Review and critique of theories of language and communication as a social and political phenomena. Student cannot receive credit for WRIT 55123 and WRIT 40333.

WRIT 55133 - Multimedia Authoring: Image and Hypertext (3)

Investigates the relationship between new media, culture, and design, with particular emphasis on multimodal, interactive texts. Course emphasizes concepts in rhetoric, multimedia, and authorship in digital environments. Students design and compose a variety of multimedia products incorporating print, image, and other modes. Student cannot receive credit for WRIT 55133 and WRIT 40163.

WRIT 55143 - Multimedia Authoring: Sound & Podcasting (3)

Explores the complex relationship between new media, culture, and design, with particular emphasis on the production of sound and podcasting. Course emphasizes concepts in rhetoric, multimedia, and authorship in digital environments. Students design and compose a variety of multimedia products incorporating sound, print, image, and other modes. Student cannot receive credit for WRIT 55143 and WRIT 40563.

WRIT 55153 - Rhetoric of Social Media (3)

Prerequisites: ENGL 10803, 20803, and at least one 10000- or 20000-level ENGL/WRIT course. This course explores the characteristics, affordances, and effects of social media as rhetoric, with special attention to the ways in which the uniquely digital qualities of social media such as speed, interactivity, anonymity, remix, and networked circulation complicate the traditional rhetorical situation of rhetor, audience, text, and context. Student cannot receive credit for WRIT 55153 and WRIT 30603.

WRIT 55163 - Writing Cross-cultural Differences (3)

Prerequisites: ENGL 20803. Students will write their own texts in multiple genres and carry out rhetorical analysis of writing that addresses questions about cultural differences--across individual identities, within various communities, and in connection with social issues. Strategies writers use to engage with intersectional domains such as race, ethnicity, social class, gender, regionalism, national vision, and other social affiliations will be examined. Addresses the Rhetoric Culture category for Writing majors and the Writing category for English majors. Student cannot receive credit for WRIT 55163 and WRIT 30613.

WRIT 55173 - Intersections of Literacies, Pedagogies, and Black Feminisms (3)

Prerequisites: Admission to the graduate program in English. Offering a theoretical foundation in Black feminist thought alongside current literacy and educational texts related to race, gender, and sexuality, the course centers the unique contributions of Black Feminist thought and its transformative potential for classrooms, schools, and communities. Student cannot receive credit for WRIT 55173 and ENGL 80623.

WRIT 55223 - Advanced Technical Writing (3)

Prerequisites: ENGL 10803 and either ENGL 20803, or WRIT 20113. A course in practical communication with a concentration on topics in technical writing and information design, including oral presentations and use of visual materials and digital tools. Assignments are tailored to fit students' major fields and professional interests. Student cannot receive credit for WRIT 55223 and WRIT 30223.

WRIT 55233 - Writing for Publication (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one 10000- or 20000-level ENGL/WRIT course. A survey of the possibilities of writing for magazine publication and the construction of essays and articles for specific markets. Student cannot receive credit for WRIT 55233 and WRIT 40233.

WRIT 55243 - Seminar in Rhetoric (3)

A study of selected major figures and issues in the history of rhetoric. Student cannot receive credit for WRIT 55243 and ENGL 80703.

WRIT 55253 - Rhetorical Traditions (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one 10000- or 20000-level ENGL/WRIT course. An introduction to the ideas, issues and individuals that shaped rhetoric and its relationship to literature and poetics, including the relationship between orality and literacy, the impact of cultural and religious views on discourse, and the role of technology in communication. Student cannot receive credit for WRIT 55253 and WRIT 30253.

WRIT 55263 - Multimedia Authoring: Animation and Film (3)

Explores the complex relationship between new media, culture, and design, with particular emphasis on cinematic or time-based rhetoric. Course emphasizes concepts in rhetoric, multimedia, and authorship in digital environments. Students design and compose a variety of multimedia products incorporating print, image, and other modes. Student cannot receive credit for WRIT 55263 and WRIT 40263.

WRIT 55273 - Classical Rhetoric (3)

Prerequisite: Junior or senior standing, permission of instructor. This course examines the emergence of rhetoric in Antiquity and traces the impact of classical rhetoric up to the Middle Ages. A substantial amount of the course is devoted to learning about the relationship between oral and written discourse, the impact of literacy, and the adaptability of systems of communication to technology and society. The implications of such phenomena are examined in different periods in an effort to develop an historical perspective about the relationship between cognition and expression within cultural conditions. Student cannot receive credit for WRIT 55273 and ENGL 50253.

WRIT 55283 - Editing and Publishing (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one 10000- or 20000-level ENGL/WRIT course. Introduces students to the practice of editing manuscripts intended for publication. Topics include the editorial process (both academic and commercial), the ethics of editing, and the role of the editor in publishing. Students will engage in extensive editing practice of journal and book manuscripts. Student cannot receive credit for WRIT 55283 and WRIT 40283.

WRIT 55303 - Modern Rhetoric (3)

Major theories of rhetoric and important rhetoricians of the twentieth century. Student cannot receive credit for WRIT 55303 and 60713.

WRIT 55313 - Research Practices in Composition and Rhetoric (3)

History, practices, and methodological concerns; use of archives and information systems; publishing and disciplinary conventions; assessment; fieldwork; ethics, thesis and dissertation problems and procedures. Student cannot receive credit for WRIT 55313 and ENGL 60723.

WRIT 55353 - Introduction to Composition Studies (3)

A survey of the major contemporary theoretical statements about composing and the teaching of composition. Student cannot receive credit for WRIT 55353 and ENGL 60703.

WRIT 55363 - History of Rhetoric (3)

A study of the major authors and issues in the history of rhetoric from antiquity to the present day. Student cannot receive credit for WRIT 55363 and ENGL 70703.

WRIT 55473 - Non-Human Rhetoric and Representation (3)

Non-Human Rhetoric and Representation challenges students to reevaluate non-human actors by interrogating a variety of theoretical,

literary and filmic texts, including theory, fiction, documentary, and children's literature. Student cannot receive credit for ENGL 55473 and WRIT 30293.

WRIT 55483 - Anti-Racist Pedagogies in Writing Studies and Rhetorical Education (3)

Prerequisites: Admission to the graduate program in English. Drawing from scholarship that centers Black studies, critical composition/literacy studies, decolonization, queer of color critique, and feminisms of color, students will examine theories and examples of intersecting anti-racist pedagogies across multiple spaces in critical university settings. Student cannot receive credit for WRIT 55483 and ENGL 80753.

WRIT 55493 - Digital Inclusiveness (3)

Prerequisite: ENGL 20803. Critical examination of how digital authorship technologies impact and are changed by cultural identities, especially with inclusivity with regard to race, class, gender, sexual identity, and ability. Student cannot receive credit for WRIT 55493 and WRIT 30893.

WRIT 55503 - Propaganda Analysis (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one 10000- or 20000-level ENGL/WRIT course. A survey of the possibilities of writing for magazine publication and the construction of essays and articles for specific markets. Student cannot receive credit for ENGL 55503 and WRIT 40253.

WRIT 55613 - Women's Rhetorics (3)

This course examines the histories, theories, and practices of women's rhetorics from the classical era through the present. Students will examine primary texts of women rhetors - essays, ordinary writing such as letters and autobiographies, and speeches, to name only a few - as well as secondary sources of those texts, paying particular attention to the ways gender, race, class, religion, place, sexual orientation, and politics shape sense of audiences, methods of invention, arrangement, choices of style, form, tone, and genre. Student cannot receive credit for WRIT 55613 and ENGL 80613.

WRIT 55623 - Women's Rhetorics (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. Women's Rhetorics will explore the ways in which women use language to persuade in both public and private spheres. The course will use rhetorical theory to study a variety of primary texts by women representing a range of historical periods from Classical times to the present, with special attention to both traditional rhetorical genres (speeches, letters, sermons, editorials) and nontraditional texts (quilts, recipe books, blogs, performance art). Student cannot receive credit for WRIT 55623 and WRIT 30663.

WRIT 55633 - Rhetorical Practices in Culture (3)

Prerequisites: ENGL 10803, ENGL 20803, and at least one 10000- or 20000-level ENGL/WRIT/CRWT course. Appropriation of the vocabulary, taxonomies, and strategies of classical and modern rhetoric for the

purposes of critical inquiry into contemporary communication and behavior. Student cannot receive credit for WRIT 55663 and WRIT 30243.

WRIT 55733 - Writing Major Seminar (3)

Prerequisites: Writing majors and minors only; students must have junior or senior standing and must have completed one 30000-level ENGL/WRIT/CRWT course. Introduces Writing majors and minors to a sustained, long-format research project over the course of the semester. Students will examine and practice disciplinary conventions in the context of future career possibilities and/or graduate school by also preparing a professional portfolio designed for an external audience. Student cannot receive credit for WRIT 55733 and WRIT 38063.

WRIT 55743 - Multimedia Authoring: Mobile Apps and eBooks (3)

Explores the complex relationship between new media, culture, and design, with particular emphasis on the production of mobile applications and eBooks publications. Course emphasizes concepts in rhetoric, multimedia, and authorship in digital environments. Students design and compose a variety of multimedia products incorporating print, image, and other modes. Student cannot receive credit for WRIT 55743 and WRIT 40363.

WRIT 55753 - Multimedia Authoring: Comics Production (3)

Prerequisites: ENGL 20803. Explores the complex relationship between new media, culture, and design, with particular emphasis on comics and graphic narratives. Course emphasizes concepts in rhetoric, multimedia, and authorship in print and digital environments. Students design and compose a variety of multimedia projects incorporating image and text (drawn and digitally manipulated). Student cannot receive credit for WRIT 55753 and WRIT 40463.

WRIT 55763 - Language and Theory (3)

A study of the major authors and theories about language and its relationship to culture and technology from antiquity to the present day.

WRIT 55773 - Writing for the Professions (3)

A workshop for the student who wishes to learn how to write in a specific academic discipline or in a profession. Student cannot receive credit for WRIT 55773 and ENGL 60203.

WRIT 55783 - Seminar in Literacy (3)

Exploration of major issues in literacy history, theory, and research. Topics may vary. Student cannot receive credit for WRIT 55783 and ENGL 80713.

WRIT 55793 - Seminar in Composition (3)

WRIT 55973 - Directed Study in Writing (3)

Prerequisites: ENGL 10803, 20803, and at least one 10000- or 2000-level ENGL/WRIT/CRWT course. Directed Study in Writing.

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