

Texas Woman's University

Undergraduate Catalog 2011 - 2013

Denton/Dallas/Houston

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Degrees Offered at TWU

Dept/Program	Bachelor's	Master's	Doctoral	Dist. Ed
COLLEGE OF ARTS & SCIENCES				
General Studies	BGS			^
Biology				
Biology *	BS	MS		
Medical Technology	BS			
Molecular Biology			PhD	
Chemistry & Physics				
Biochemistry	BS			
Chemistry *	BS	MS		
English-Speech-Foreign Languages				
English *	BA	MA		
Rhetoric			PhD	
Fashion and Textiles				
Fashion Design	BA			
Fashion Merchandising	BS			
History and Government				
Government	BA, BS	MA		
History *	BA, BS	MA		
Mathematics & Computer Sciences				
Computer Science	BS			
Mathematics *	BA, BS	MA, MS		
School of the Arts				
Art *	BA, BFA	MA, MFA		
Dance *	BA	MA, MFA	PhD	
Drama *	BA	MA		^
Music *	BA	MA		
Psychology & Philosophy				
Psychology	BA, BS			
Counseling Psychology		MA	PhD	
School Psychology		SSP	PhD	
Sociology & Social Work				
Criminal Justice	BA, BS			^
Sociology	BA, BS	MA	PhD	
Social Work	BSW			
Women's Studies				
Women's Studies		MA	PhD	
School of Management				
Business *	BS			
Business Administration	BS, BBA, BAS	MBA		^
Executive MBA		MBA		^
Health Systems Management		MHSM		
Human Resource Management	BBA			^

^ Denotes Distance Learning degree available * Denotes Teacher Certification

4 Degrees Offered

Dept/Program	Bachelor's	Master's	Doctoral	Dist. Ed
COLLEGE OF PROFESSIONAL EDUCATION				
Family Sciences				
Child Development	BS	MS	PhD	
Counseling & Development		MS		
Early Childhood Education		MS, MA, MED		
Family and Consumer Sciences*	BS			
Family Studies	BS	MS	PhD	^
Family Therapy		MS	PhD	
School of Library & Information Studies				
Library Science		MA, MLS	PhD	^
Reading				
Reading Education *		MS, MA, MED	PhD, EDD	^
Teacher Education				
Interdisciplinary Studies*	BS			
Administration		MA, MED		
Teaching, Learning & Curriculum		MA, MED		
Special Education		MA, MED	PhD	
Teaching		MAT		
COLLEGE OF HEALTH SCIENCES				
Communication Sciences & Disorders				
Communication Sciences	BS			
Education of the Deaf*		MS		^
Speech/Language Pathology		MS		^
Dental Hygiene				
Dental Hygiene	BS			
Health Care Administration				
Health Care Administration		MHA		
Health Studies				
Health Studies*	BS, BAS	MS	PhD	^
Kinesiology				
Exercise & Sports Nutrition		MS		
Kinesiology*	BS	MS	PhD	^
Nutrition & Food Sciences				
Culinary Sci. & Food Ser. Mgmt.	BAS			
Food & Nutrition in Business & Industry	BS			
Food Science		MS		
Food Systems Administration		MS		^
Nutrition	BS	MS	PhD	

^ Denotes Distance Learning degree available * Denotes Teacher Certification

Dept/Program	Bachelor's	Master's	Doctoral	Dist. Ed
SCHOOL OF OCCUPATIONAL THERAPY				
Occupational Therapy		MOT	PhD	^
Pre-Occupational Therapy	BS			
Child Development				
Family Studies				
Health Studies				
Kinesiology				
Psychology				
SCHOOL OF PHYSICAL THERAPY				
Pre-Physical Therapy	BS			
Biology	BS			
Kinesiology	BS			
Psychology	BS			
Physical Therapy			DPT, PhD, +DPT	
COLLEGE OF NURSING				
Nursing	BS	MS		
RN	BS	MS		^
Nursing Science			PhD	^
Nursing Education		MS		^
Nursing Practice			DNP	
PRE-PROFESSIONAL PROGRAMS				
Pre-Law				
Pre-Medicine				
Pre-Dentistry				
Pre-Engineering				
Pre-Pharmacy				

^ Denotes Distance Learning degree available * Denotes Teacher Certification

Introduction

Catalog Effective Date

The provisions of this catalog apply to all students entering at the beginning of or after the first semester of the 2011-2012 long session. In general, a student can expect to follow guidelines in the catalog for up to six years. However, the catalog is subject to change as indicated below.

This catalog is a general information publication only. This catalog does not contain all university rules, regulations and other policies for which a student is responsible. Students also should consult other publications such as student handbooks, departmental degree guidelines, and other university publications.

The provisions of this catalog do not constitute a contract, express or implied, between any applicant, student or faculty member and Texas Woman's University.

Change of Catalog Information

Offerings in this catalog (including individual courses, major and minor subjects, groups of courses leading to degrees and other degree requirements) are subject to such changes as appropriations or enrollment may warrant or the University determines appropriate, from time to time and without prior notice, and to other deviations as may be authorized or required by law.

When changes are made, either in academic programs, policies, or other matters, the changes may first appear in the university's Academic Affairs website, the online policy manual, or the departmental/ unit web pages accompanied by the date designating when that the change becomes effective. When the next catalog is published, these changes are added to the print and online catalogs.

Print and Electronic Catalog

This print edition is the official version of the TWU General Catalog. An electronic edition of the General Catalog is available on the TWU website (located under the "C" Index) and in the Academics section of the website. Every effort is made to ensure that the content of the printed and online versions of the General Catalog are identical. Should an inconsistency occur between the two versions, the printed version of the General Catalog will be considered the official version.

Nondiscrimination Policy

The University strives to provide an educational environment that affirms the rights and dignity of each individual, fosters diversity, and encourages a respect for the differences among persons. Discrimination, harassment or retaliation of any kind is considered inappropriate.

The University does not discriminate against any person on the basis of race, age, color, religion, sex, sexual orientation, national or ethnic origin, veteran's status, or against qualified disabled persons.

It is the responsibility of the University's Associate Vice President for Human Resources to ensure that TWU and all its constituencies comply with the provisions of this policy and with all Federal and State laws, executive orders, and regulations regarding equal opportunity and affirmative action. The support, review, and supervision of equal employment efforts are the responsibility of each divisional vice president and the Campus Managers of the Dallas and Houston campuses. Ultimate responsibility for the University's equal employment opportunity efforts lies with the Chancellor and President of Texas Woman's University.

Inquiries concerning University complaint procedures related to discrimination may be directed to the following designated officials:

EEO/Affirmative Action Officer:

Associate Vice President of Human Resources
Texas Woman's University
P.O. Box 425739
Denton, TX 76204.

Title VI and Title IX Officer:

Vice President for Student Life
Texas Woman's University
P.O. Box 425379
Denton, TX 76204

Americans with Disabilities Act Compliance Officer:

Associate Vice President of Human Resources
Texas Woman's University
P.O. Box 425739
Denton, TX 76204

Board of Regents

P. MIKE McCULLOUGH, Chair/Presiding Officer, Dallas
SUE SCHRIER BANCROFT, Vice Chair/Assistant Presiding Officer, Argyle
SARAH ADAMS, Student Regent, Whitehouse
LOLA CHRISS, Rowlett
DEBBIE GIBSON, Houston
ANN SCANLON McGINITY, Ph.D., Pearland
CECILIA MAY MORENO, Ed.D., Laredo
GEORGE R. SCHRADER, Dallas
MELISSA D. TONN, M.D., Dallas
MARY PINCOFFS WILSON, Austin

Officers of the University

ANN STUART, Chancellor and President. B.A., University of Florida; M.A., University of Kentucky; Ph.D., Southern Illinois University.

ROBERT NEELY, Provost and Vice President for Academic Affairs. B.S., Southwest Baptist College; M.S., Baylor University; Ph.D., Iowa State University.

BRENDA FLOYD, Vice President for Finance and Administration. B.S., University of Texas; M.S., University of North Texas; Ed. D., Texas A&M University.

RICHARD NICHOLAS, Vice President for Student Life. B.S., University of Texas at Austin; M.S. Ed., Southern Illinois University; Ph.D., University of Texas at Austin.

BILL PALMERTREE, Vice President for Technology and Information Services and C.I.O. B.B.A., University of Mississippi; M.S in Management, Troy State University.

General Information

History of the University

Texas Woman's University is a teaching and research institution emphasizing the liberal arts and specialized or professional studies. Established in 1901 by an act of the 27th Legislature as the Girls Industrial College, the institution began classes in 1903. TWU is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097; Telephone: 404-679-4501) to award baccalaureate, master's and doctoral degrees. The University holds the Carnegie Classification of Doctoral/Research University. Our graduate programs are classified as Comprehensive doctoral (no medical/veterinary).

In 1905 the Legislature changed the name to the College of Industrial Arts. The college grew in academic excellence, in size and scope, and in reputation. The rising academic qualifications of the faculty, the building of a substantial library and research and instructional facilities, and the increasing demand for graduate education for women led to the establishment of graduate studies at the college in 1930.

In 1934 the name of the institution was changed to the Texas State College for Women to describe more accurately the scope of the school. Doctoral degrees were first awarded in 1953. Since 1957 the name has been Texas Woman's University, reflecting its status as a major institution of higher learning.

Mission of Texas Woman's University

Texas Woman's University builds on its long tradition as a public institution primarily for women by educating a diverse community of students to lead personally and professionally fulfilling lives. TWU prepares women and men for leadership and service through high quality undergraduate and professional programs on campus and at a distance. A TWU education ignites potential, purpose and a pioneering spirit.

(pending Board of Regents approval, June 2011)

Research Mission of Texas Woman's University

In the following text, the term “research” is used as it is used broadly in academic discussion, to include not only the diverse activities that comprise inquiry but also the forms of public statement of results of inquiry, such as publication, performance, or presentation.

It is the special research mission of the Texas Woman's University:

- to support faculty and student efforts to expand the domain of human knowledge, imagination, and forms of expression, particularly in those disciplines in which the University awards the doctoral degree;
- to contribute to improvements in professional practice through dissemination of knowledge and through research, particularly in those disciplines and professions in which the University awards graduate degrees;
- to serve as a resource and depository for information and knowledge about women, their cultural diversity, and their particular contributions to the history and progress of the State of Texas, the nation, and the world;
- to collaborate with public and private agencies and corporations in research directed toward improvements in the quality of their products and services.

Organization

Academically, the University includes College of Arts and Sciences (including the School of the Arts and the School of Management), College of Professional Education (including the School of Library and Information Studies), College of Health Sciences (including the Schools of Physical Therapy and Occupational Therapy), and the College of Nursing. The Graduate School administers graduate programs in each of these schools and colleges. Now in its eleventh decade, the University has become a major public university served by approximately 400 faculty members and attended by more than 14,000 students. The curriculum, which led to the award of baccalaureate degrees for the first time in 1915, now accommodates studies that lead to doctoral degrees in each of the colleges of the University.

The Board of Regents

The Texas Woman's University Board of Regents is composed of nine persons, at least four of whom shall be women, appointed by the governor with the advice and consent of the Senate. The governor also appoints a tenth non-voting student regent.

The regents hold office for staggered terms of six years, with the terms of three members expiring February 1 of odd-numbered years. The student regent serves a term of one year. The Board meets quarterly. The Board biennially elects a chair/presiding officer and a vice-chair/asst. presiding officer.

Accreditation and Approval

Texas Woman's University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097; Telephone: 404-679-4501) to award baccalaureate, master's and doctoral degrees. Selected academic programs also are accredited by appropriate state, regional and national agencies. The Graduate School is a member of the Council of Graduate Schools in the United States. This general accreditation, recognizing the quality of all of the work done by the components of the University, forms the basis for numerous memberships which the University holds in selective associations and societies that recognize and demand high standards in specific fields.

A list of other accrediting organizations is available in the Overview of the University in the online TWU Fact Book at <http://www.twu.edu/institutional-research/fact-book.asp>.

Campus and Centers

Denton Campus

The Texas Woman's University main campus is located in Denton, Texas, a city of more than 100,000 residents located 35 miles north of Dallas and Fort Worth, the nation's fourth largest metro center. The University's high-rise residence halls and academic and administration buildings dominate Denton's skyline. Blended with these are historic buildings, including Old Main (the University's first building) and the Little Chapel-in-the-Woods.

Other special features of the Denton campus are the "Texas Women's Hall of Fame" exhibit; the DAR Museum, which contains historic materials reflecting the culture and social life of Texas' First Ladies; and the TWU Woman's Collection, containing the University Archives. A special campus landmark is the statue of the Pioneer Woman, which was given to TWU in 1938 by the State of Texas in celebration of the Texas Centennial.

Campus recreational facilities include a fitness center, tennis courts, athletic fields, an 18-hole golf course and clubhouse, indoor and outdoor swimming pools, outdoor walking track, gymnasium, dance studios and a wellness center.

Dallas Center

As part of its Institute of Health Sciences program, the University maintains a Dallas Center which includes sites near Parkland and Presbyterian hospitals. The Center provides excellent clinical experience and educational resources for students enrolled in the programs of the Institute of Health Sciences.

TWU T. Boone Pickens Institute of Health Sciences – Dallas Center

Texas Woman's University opened its new Dallas Center in 2011 in the heart of Dallas' Southwestern Medical District. The eight-story, 190,000-square-foot facility combines TWU's nursing, occupational therapy and physical therapy programs and the TWU Stoke Center in one location.

Presbyterian Campus

Dedicated in 1977, the Presbyterian Hospital site in northeast Dallas is adjacent to Presbyterian Hospital on Walnut Hill Lane just east of North Central Expressway. Facilities include classrooms, library, laboratories, auditorium and offices.

Institute of Health Sciences - Houston

Texas Woman's University opened its new Institute of Health Sciences-Houston Center in August, 2006. Located at 6700 Fannin, at the southern gateway to Houston's world renowned Texas Medical Center, the new Houston Center is a 10-story, 202,000-square-foot "campus in one building." The Center was funded at no cost to the state through an innovative public/private partnership.

Currently, more than 1,300 students majoring in nursing, physical therapy, business, healthcare administration, occupational therapy and nutrition are enrolled at the TWU Houston Center.

TWU Libraries

The University Libraries support the teaching and research activities of Texas Woman's University faculty and students by providing a diverse collection of print and electronic resources and a wide array of services. These services include library instruction, research, archives, electronic reserves, and interlibrary loan. Important information about library services, new full text electronic databases, cultural events and help with research is available at the Libraries' website.

The Blagg-Huey Library, on the Denton campus, offers students a modern facility for accessing both printed and electronic information in a study and learning environment that provides comfort and inspirational beauty. The Library has study areas that include both individual learning carrels and group study rooms.

The Library has holdings of 580,000 print volumes and 105,000 e-book volumes, 35,030 e-journals, and 19,000 audio visual materials to support all major areas of study at TWU. Online access to full-text journals and books as well as indexes is provided within the library and over the internet. The online catalog provides information for items on order, on the shelf or checked out. Reserve items include links to electronic documents in the databases as well as printed items converted for access electronically.

The Woman's Collection, established in 1932, is the largest depository in the South and Southwest of research material about women and one of only three major collections of its kind in the United States. A book collection of more than 40,000 volumes, including the Gerritsen Collection of Women's History, and a manuscript collection of over 2,500 linear feet are augmented by more than 23,000 volumes in major microform collections including the History of Women, Women and the Law, the National Women's Party Papers, the League of Women Voters Papers and Herstory.

The Children's Collection, one of the largest in the United States, is located on the Garden Level of the Library and holds 21,000 volumes with a wide variety of fiction, nonfiction, reference and multimedia materials. The Collection also houses the Children's Historical Collection of some 3,000 volumes including rare, early-day children's books. Original book art from prominent children's book illustrators decorates the Children's Collection.

Satellite collections are available at the Dallas-TWU T. Boone Pickens Institute of Health Sciences site (the major nursing collection in the Dallas-Fort Worth area), and the Dallas-Presbyterian site. Houston students use the resources of the outstanding collection in the Houston Academy of Medicine-Texas Medical Center Library.

In addition to the multiple resources of the Texas Woman's University Library, students and faculty may use the libraries of area Universities including the University of North Texas; the libraries of more than 125 participants in Texshare; and interlibrary loan access to the collections of over 5,000 national and international members of OCLC. Instant telecommunication and daily courier services are used to locate and deliver books and other materials from libraries throughout Texas.

Technology and Information Services

The resources available through Technology and Information Services extend to each campus of TWU and include computer labs and technology classrooms, multimedia systems, Internet access, email, distance learning services, and training workshops. Students have a wide selection of software resources available to support their studies, including statistical analyses, word processing, and discipline specific courseware. The Denton, Dallas, and Houston campuses offer computer access through general use computer labs, classroom teaching computer labs, and department labs that directly support academic programs. Additionally, students have access to computers strategically located in common areas such as the campus Student Center, student lounges, the Library, and residence halls. The residence halls offer Internet access to students bringing their own computers. Wireless is also available throughout each campus. Student support services such as the Learning Assistance Center, Disability Support Services, Science Learning Resource Center, the Write Site, and others utilize computer and multimedia resources to enhance learning opportunities for students. Classrooms are equipped with data projection systems and other instructional technology tools. Video-conferencing facilities accentuate classroom connections between remote sites, enhancing collaboration and cross-disciplinary efforts between academic programs. Blackboard (on-line course development software) is used for Internet-based course instruction. For additional information regarding computing services and resources for students, please go to www.twu.edu/is/.

TWU Alumni House

The TWU Alumni House, located just off of University Avenue near Guinn Hall, is the central coordination point for alumni activities for Texas Woman's University. Located in the historic house are office space for the Office of Alumni Relations and the Former Students Association.

The Office of Alumni Relations

The Office of Alumni Relations serves all alumni from the campuses of TWU – Denton, Dallas and Houston. The Director and staff of the office provide a variety of services to alumni from assistance in finding a former classmate to securing an alumni decal. The total list of services can be viewed at the alumni website www.twu.edu/alumni.

In addition, the Director coordinates alumni communication, both print and electronic, for the 75,000 living graduates of the university. The alumni page of the TWU TIMES and the *TWU Alumni Connection* e-newsletter are benefits of staying connected to TWU. Working with alumni who want to be involved in the life of the university through volunteering or service, the Office of Alumni Relations connects alumni with their alma mater and with each other.

The Former Students Association

The TWU Former Students Association (FSA) was organized in 1905 by the first alumnae of the College of Industrial Arts (CIA). Its mission was and still is to support the university, its students and alumni. FSA is a membership-based non-profit organization and offers new graduates one free year to use its benefits and to network with other members. Card-carrying members receive privileges of free parking on the Denton and Dallas campuses, limited use of the Denton campus Library and Wellness Center, discounts to hotels and car rentals, Denton Campus bookstore and theater performances. Affinity programs with Bank of America and Liberty Mutual give financially to FSA each time TWU alumni take advantage of their services.

FSA organizes the annual Reunion Weekend events in April, to honor alumni from College of Industrial Arts, Texas State College for Women and TWU. FSA also offers many scholarships to current students. Check out the FSA website: www.TWU.edu/fsa for more details and applications. Other information on TWU exclusive memorabilia available for sale, TWU FSA's geographical and academic chapters, upcoming events and opportunities to get involved can be found on the website. FSA is located in the Alumni House or call 940-898-2586 for more information.

Institutional Development

All students, former students, and friends of TWU are invited to contribute to TWU scholarships to help meet the University's greatest needs and opportunities, which include: academic and other enrichment programs, equipment for classrooms and laboratories, student scholarships (including *Lead the Way* academic scholarships), library resources, faculty recruitment and retention, and achievement and recognition awards. Information about university development programs and specific giving opportunities is available from the Office of Institutional Development, Texas Woman's University, P.O. Box 425618, Denton, Texas 76204; phone 940-898-3863, or visit www.twu.edu/development.

TWU Foundation

The Texas Woman's University Foundation is a non-profit corporation chartered under the laws of Texas and established in 1952. Its purpose is to receive and administer gifts to enhance educational excellence at the University. The foundation board seeks to identify potential sources of private gifts, to enable donors to make appropriate contributions that match their interests and needs, to provide for the prudent management of gift resources, and to encourage the involvement of interested persons in the work of the foundation.

A person interested in giving opportunities through the TWU Foundation may request information by writing the TWU Foundation, P.O. Box 425618, Denton, Texas 76204-5618, or by calling 940-898-3878.

Admission Information

Admission to Texas Woman's University is based on a number of criteria including academic achievement, academic preparation and standardized test scores. An offer of admission from TWU is valid for one academic year (fall to summer, spring to fall, or summer to spring), if the applicant has not attended another institution of higher education. If students do not attend TWU within 12 months, they must re-apply, pay the application fee, and submit the appropriate credentials. Students wishing to change their application term should contact the Office of Student Records or visit the Student Records website and complete the Application Change form. Please refer to the admission categories below for specific admission requirements.

Contact Information

Office of Admissions
Texas Woman's University
P.O. Box 425589
Denton, TX 76204-5589
email: admissions@twu.edu
phone: (940) TWU-3188 or
1-866-809-6130; ext. 3188
web: <http://www.twu.edu>

Office of Student Records
Texas Woman's University
P. O. Box 425649
Denton, TX 76204-5649
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1-866-809-6130; ext. 3076
web: <http://www.twu.edu>

TWU Office of International
Education
P. O. Box 425827
Denton, TX 76204-5827
email: intloffice@twu.edu
phone: (940) TWU-3338
web: <http://www.twu.edu>

TWU defines a **domestic applicant** as an applicant who holds one of the following:

1. An American citizenship, permanent resident card, or naturalization document, or
2. INS form Notice of Action I-797 stating that Permanent residency application is approved, or
3. Permanent resident endorsement on passport.

These applicants should complete a domestic (Freshman, Transfer, Graduate, Readmit, or Transient) application via ApplyTexas,

For information specific to international applicants, please see below.

For admission purposes, Texas Woman's University defines an **international applicant** as a foreign national who is or will be studying at a U.S. institution on a non-immigrant visa. These applicants must complete the international application. This includes students who hold a non-immigrant visa/status and attend high school in the U.S.

International students admitted to Texas Woman's University usually do so in F-1 or J-1 visa status. It is, however, possible to enter the U.S. on other nonimmigrant visas. For questions regarding immigration status, please contact the Office of International Education at intloffice@twu.edu or (940) 898-3338.

Application Credentials

All new undergraduate students seeking admission to TWU must submit the following credentials.

1. Completed application form, (www.applytexas.org)
2. Application fee
3. Official transcript(s) from each previous institution attended
4. Standardized test scores, if required (i.e. SAT, ACT)
5. Copy of resident alien card, if applicable (permanent residents)
6. TOEFL or TOEFL exemption (permanent residents)

Please see further details about credential requirements below.

Application Form

Texas Woman's University accepts only the ApplyTexas Application for Freshman Admission or the ApplyTexas Application for Transfer Admission. This application is available on-line at www.applytexas.org. The ApplyTexas common application must be submitted on-line to the TWU Office of Student Records.

Application Fee

Application for undergraduate admissions must include an application fee of \$50.00. The application fee for international students is \$75.00. This is a nonrefundable fee and applies to all applicants, to include new and returning students. Payment may be made by check, money order, or credit card. Checks and money orders should be made payable to TWU and should include the applicant's name, the ApplyTexas application ID number or Social Security Number. Acceptable credit cards include Mastercard or VISA. Cash payments may only be made in person at the Bursar's Office. Application fee waivers are only granted to students submitting the official SAT or ACT fee waiver form.

Official Transcripts

TWU requires an official transcript of coursework from each institution previously attended. Official transcripts must be sent to TWU directly from the institution or delivered personally in a sealed envelope from the institution. The printed transcript must bear an official seal and/or signature. An official electronic transcript must be sent through a secured system directly to TWU from the sending institution. Any sign of tampering with the transcript information will render it unofficial and invalid. Submitted transcripts are the property of TWU and will not be returned to the applicant.

Standardized Test Scores

Standardized test scores include the SAT (Scholastic Aptitude Test) or ACT (American College Test). Please refer to specific admissions categories for test score requirements. Test scores may be submitted to TWU directly from the test agency, recorded on an official high school transcript, or by an official student test score report submitted to the Office of Admissions or the Office of Student Records.

NOTE: Although TSI tests or appropriate exemptions are not required for admission, scores are required before enrollment in any collegiate level coursework for credit. See the TSI section in Academic Records and Enrollment for more information.

University Admission Application Deadlines

Students should observe the following priority deadlines to ensure adequate application processing time and notification of the admission decision prior to the beginning of classes.

Priority deadlines are March 1 for Fall, November 1 for Spring, and one month prior to the first day of Summer session.

International students are advised to apply six months prior to the semester of entry.

Dates of the first day of class for each semester appear in the Academic Calendar on the University website at www.twu.edu/academics/.

NOTE: Admission to the University does not automatically guarantee admission to a particular college, school, or program.

College, School, or Program Admission and Deadlines

Students must be admitted to the University prior to applying to a specific college, school, or program major within TWU. For admission to a school, college, or program within the University, the student must satisfy all of the following and be accepted by the college or school:

1. Requirements of the University,
2. Requirements of the particular college or school,
3. Requirements of the program or major.

Applicants are urged to contact the specific college or school for their admissions information. Students may also refer to the applicable section of the catalog or the TWU website.

Individual TWU colleges, schools, or programs may have different application deadlines. Generally, the deadlines for the Institute of Health Sciences academic units are as follows:

Deadline for Admission in Fall Semester

Nursing (upper division): February 1
completed College of Nursing application

Dental Hygiene: January 10 (first round)

Deadline for Admission in Spring Semester

Nursing (upper division): September 1
completed College of Nursing application

Rolling Application Deadline:

Psychology: Allow eight weeks for processing

Health and Safety Requirements: Students in Health and Education Majors

Before they begin clinical practice or internships, students who are admitted to education or health-related programs that involve contact with patients are required to be immunized against measles, mumps, rubella, chicken pox, tetanus, hepatitis B, influenza, and to have an annual TB skin test. Proof of immunizations for nursing students will be required for admission to upper division coursework. Texas Woman's University does not require HIV testing of its students; however, some agencies with which the University affiliates for clinical training may require such testing. Texas law requires that if a health care worker who is HIV positive performs exposure-prone procedures, the health care worker must notify a prospective patient of the health care worker's seropositive status and receive the patient's consent to perform the procedure. Clinical facilities and school systems with which the University affiliates require that students be tested for drugs and have criminal background checks done. When this is required, students will have the screening done at their own expense. Departmental policy governs the procedures to be followed. Failure to meet the screening standards may result in the student being required to withdraw from the program. Clinical facilities may require that students have health insurance. When this is required, students must show proof of health insurance.

FRESHMAN STUDENT ADMISSION

Students who will graduate or have already graduated from high school, who will complete or have completed a home schooling program, who hold a GED certificate of completion, or who have attempted fewer than 12 credits of college-level course work are considered freshman applicants. Students who have earned college credits while in high school are considered freshman applicants with college credit. High school seniors accepted as freshman before graduation must submit a final transcript verifying graduation prior to enrolling in TWU coursework. Freshman may be admitted under one of the following three categories: Assured Admission, Regular Admission, or Provisional Admission. See www.twu.edu/admissions/freshmen.asp.

Assured Freshman Admission

Freshman applicants who meet both criteria below will be approved automatically for admission to Texas Woman's University:

1. graduation from a regionally accredited high school in Texas within the last two years and
2. class ranking in the top 25 percent of their high school graduating class

Class rank will be based on the end of the 11th grade, middle of the 12th grade, or at high school graduation, whichever is most recent when the application is reviewed.

NOTE: Although in the above instance admission to TWU is assured, ACT or SAT test scores are recommended to ensure proper advising and course placement. All new freshman applying for scholarships are required to submit an ACT or SAT test score.

Regular Freshman Admission

Freshman applicants who do not meet the requirements for Assured Admission will be considered for regular admission if they meet all of the following criteria:

1. Graduated from a regionally accredited high school, a home-school program, or hold a GED certificate of completion, and
2. Attained at least a 2.0 high school grade point average on a 4.0 scale, and
3. Have class ranking in the top 50 percent of their high school graduating class, and
4. Scored 1000 or above (critical reading and math combined) on the Scholastic Assessment Test (SAT) OR scored a 21 composite score or above on the ACT Assessment, and
- 5 a. Completed or enrolled in the Recommended or Distinguished Texas High School Curriculum*, or an International Baccalaureate Program,

OR

- 5b. If attending a private Texas high school or an out-of-state high school, completed or enrolled in a college-prep curriculum as outlined below:

English (4 units)
 Math (3 units, including Algebra II)
 Science (3 units)
 Social Studies (3 units)
 Academic Electives (3 units)

6. Students who are home-schooled or graduating from an unaccredited high school must meet the minimum required SAT or ACT score as specified for Regular Freshman Admission.

*Changes to the Recommended and/or Distinguished Curriculum adopted by the state will be followed by TWU.

Provisional Freshman Admission

Provisional Admission is for freshman applicants who do not meet all of the Assured Admission or Regular Admission requirements. Candidates for provisional admission are reviewed individually by an Admissions Committee to determine if an offer of admission will be made. Additional credentials or materials may be requested from applicants being considered for provisional admission.

Note: Students admitted under the provisional category are required to take University 1011, a one-credit course emphasizing college study skills; to limit coursework to between 12-14 credit hours (full-time) during first semester of attendance; and to work closely with an academic adviser during the first 30 hours of college work. Upon completion of the first 18 credit hours of coursework at TWU with a GPA of 2.0 or better, the provisional status will be removed.

Adult/Non-traditional Student Admission

An applicant may apply under adult student status if all of the following conditions are met.

The applicant must:

1. Have a high school diploma or GED, and
2. Have been out of high school for five years or more, or completed GED requirements at least five years ago. If the high school diploma or the GED was obtained less than five years ago, the applicant should apply as a traditional first time freshman.
3. Have not previously attempted more than 12 or more semester hours of college-level credit.

Applicants must submit an application, application fee, and official high school transcript or GED. The SAT or ACT test score is not required of eligible adult/

non-traditional applicants. An approved TSI test is required prior to enrollment in coursework.

If an applicant has completed GED requirements, the completion date of the GED serves as the applicant's high school graduation date. If the GED was obtained at least five years ago, SAT or ACT test scores are not required. However, if the GED was obtained less than five years ago, the applicant will be reviewed under provisional freshman admission criteria, which requires the submission of an SAT or ACT test score.

Transfer Student Admission

Students who have earned 12 or more semester hours of college-level credit at another college or university but who have not received a bachelor's degree are considered transfer students. Students who have earned more than 12 credits while in high school will be considered freshman based on high school graduation date. Transient students are those who take courses at TWU for transfer to another institution and are therefore nondegree applicants. Transfer students may be admitted under one of the two following categories: Assured Admission or Regular Admission.

Students applying to TWU are expected to disclose fully and honestly as stipulated on the ApplyTexas Application for Admission. Failure to make an accurate report of all colleges and/or universities attended will subject the student to disciplinary action and possible dismissal. Students on academic suspension will not be admitted to Texas Woman's University until the suspension period has elapsed.

Students who are not eligible to return to their previous institution(s) are not admissible to TWU.

Assured Transfer Admission

Transfer applicants who meet both of the criteria below will be automatically admitted to TWU. Transfer students will be granted assured admission if they:

1. Have earned an Associate of Arts degree or an Associate of Science degree from an accredited college in the State of Texas; and
2. Are in good standing at the previous institution(s).

NOTE: Students who have earned an Associate of Applied Science degree or the equivalent are not automatically admissible but may be admitted according to regular transfer admission criteria.

Regular Transfer Admission

Transfer students will be granted regular admission if they have all of these characteristics:

1. Have attended a recognized accredited academic institution,
2. Have a cumulative GPA of at least 2.00 on a 4.0 scale on all transferable college level coursework attempted,* and
3. Are in good standing at their previous institution.

Students may transfer up to 84 semester hours from junior or community colleges. All such credit is usually accepted as lower-level credit unless otherwise indicated in TWU Course Equivalencies. There is no maximum number of semester hours transferred from four-year institutions, and these credits will be accepted at level taken. Please see the Academic Information, Transfer of Credits for more information about transferring courses to TWU.

*NOTE: Several departments have higher grade point requirements which students must satisfy before they are permitted to advance to upper level course work. Students should check admission requirements of individual programs.

OTHER TYPES OF UNDERGRADUATE ADMISSION

High School Advantage Program (Dual Credit and Concurrent Enrollment)

The High School Advantage program allows students to earn college credit while still in high school. Current eligible high school students may apply for concurrent/dual enrollment in this program. Texas Administrative Code limits students to two dual credit courses each semester (science and lab would be considered as one). Exceptions to this rule require approval by both high school and university officers. In order to apply, a student must submit a High School Advantage permission form signed by the student, a parent/guardian, and the high school principal or guidance counselor; an ApplyTexas application; an official high school transcript; \$50.00 application fee, and official TSI scores showing a passing score on all three sections (or proof of exemption.) High School Advantage information can be found at www.twu.edu/admissions/dual-credit.asp. The Director of Admissions must approve the request for admission.

Undocumented Immigrant Students - TEC 54.057(J)(4) (formerly known as HB1403 – Senate Bill 1528)

Texas law allows certain students who are not U.S. citizens to qualify for Texas resident tuition rates at public universities. This law became effective with students applying for the Fall 2001 semester. This statute is a tuition residency classification, not an admissions policy. Students applying under it will be evaluated under the regular freshman and transfer admissions criteria.

A special residency status may be granted if a student meets all of the following criteria:

1. Has graduated or will graduate from a Texas high school or received a GED certificate, and
2. Has resided in Texas during the three years prior to graduation or receiving a GED, and

3. Has resided or will have resided in Texas 12 months prior to the census date of the semester enrolled at a college/university, and
4. Will provide a notarized affidavit stating that the student will file an application to become a permanent resident as soon as possible. The affidavit can be found at www.twu.edu/registrar/forms.asp

Non-degree Admission

Applicants who are not seeking a bachelor's degree but who wish to take credit courses must submit an application, an application fee and an official transcript from the last institution attended. First time in college applicants must meet the same secondary school requirements as degree seeking students. Transfer students must meet the same requirements as degree seeking students. Non-degree seeking students are not eligible for federal, state, or institutional financial assistance, other than emergency tuition loans.

Permanent Residents

Applicants who are permanent residents must submit a copy of their Permanent Resident card at the time that they apply for admission to TWU. Permanent residents are processed through the Office of Student Records. Applicants who have applied for permanent residency but have not yet received the INS form Notice of Action I-797 verifying approval will be considered international students and must meet all international requirements until a permanent resident card has been issued.

Post Baccalaureate Students Seeking a Second Degree

Applicants who are seeking a second undergraduate degree must submit a completed Apply Texas application for transfer admission, official transcript(s) from each institution attended (including verification of the bachelor degree awarded), and the application fee. Admission to the University does not imply admission to a specific college, program, or major. Students should contact the specific academic department for admission information.

Readmission

Students who have attended TWU in the past as an undergraduate student may be eligible for undergraduate re-admission. Readmission applicants are expected to meet the regular criteria for transfer admission. Applicants who do not meet the requirements will be evaluated by individual review.

Applicants accepted as freshmen that take 12 or more college-level credit hours at another institution prior to attending TWU, and former students, must submit an updated application for transfer admission available at www.applytexas.org and an official transcript from each additional institution attended since his/her last enrollment at TWU, if applicable, and pay the application fee.

Applications for readmission should be completed and submitted via Apply-Texas at least two weeks prior to registration to ensure adequate processing and

notification. Individual TWU schools, colleges, or programs may have additional readmission requirements. Students should contact the specific academic departments for readmission information.

Academic Fresh Start

Texas resident transfer students or re-admits may apply for admission under the Fresh Start program (Texas Education Code 51.929). This program allows applicants to discard all coursework ten years or older from the starting date of the semester in which the applicant seeks to enroll. Applicants who request the Fresh Start option must discard all coursework ten years or older and will not receive credit for any of those courses; however, any coursework earned since that time will still be a part of the student's transcript. Applicants must provide all official college transcripts, including the coursework that will be discarded, as it may still apply for TSI exemption. Applicants who wish to apply for Fresh Start must submit the Application for Academic Fresh Start or Restart form, located on the Student Records website, <http://www.twu.edu/student-records/sr-forms.asp> with the application for admission to TWU. The request must be sent to the Office of Student Records.

Note: This is an all or nothing option. Students are not able to pick and choose which courses to delete and which courses to count. This means that:

- Fresh Start Courses cannot be used to fulfill new prerequisite requirements
- Fresh Start Courses cannot be counted towards a new degree
- Fresh Start Courses will not be counted in the new GPA calculations
- Students who have earned a bachelor's degree are not eligible for Fresh Start at TWU

The final authority in determining eligibility for Academic Fresh Start rests with the Director of Admissions (or Student Records.)

The RESTART Program at TWU

The RESTART Program aids students who are returning to college with low grade point averages that may inhibit successful academic progress. Students may apply for the RESTART program only if their grade point average is less than 2.0 and they were not enrolled in any college or university during the previous seven-year period. Applicants who wish to apply for RESTART must submit the Application for Academic Fresh Start or RESTART form, located on the Student Records website, <http://www.twu.edu/student-records/sr-forms.asp> with the application for admission to TWU. The request must be sent to the Office of Student Records.

Under the RESTART program, previous academic course work will not count toward any degree requirements. The student's transcript will reflect all previous academic course work and the grades received, but will be excluded from the student's initial and subsequent TWU grade point average. A student's participation in the RESTART program will be noted on the transcript. RESTART students are not considered for honors designations upon graduation.

The standards expected for continuous enrollment and the penalties for sub-standard performance will be the same as for all regularly admitted students. A third suspension after participation in RESTART will be final.

Admission Appeal Process

Any undergraduate applicant denied admission to Texas Woman's University may appeal the decision. An Undergraduate Admissions Appeal form, which can be found at www.twu.edu/student-records/sr-forms.asp, and additional academic information (such as an updated transcript or new test scores) need to be submitted to the Office of Student Records. An applicant may appeal a decision of denial once per term. All Undergraduate admission appeals are reviewed by the Admission Review Committee. A written response will be provided to each appeal.

Undergraduate Admission Decision Appeal

Any undergraduate applicant denied admission to Texas Woman's University may appeal the decision in writing. Please use the form above to appeal the decision. Graduate applicants who wish to make an appeal must contact the academic department to which they applied. The Office of Student Records does not handle graduate level admissions appeals.

International Student Admission

For admission purposes, Texas Woman's University defines an "international applicant" as a foreign national who is or will be studying at a U.S. institution on a non-immigrant visa. These applicants must complete the international application. This includes students who hold a non-immigrant visa/status and attend high school in the U.S.

International students admitted to Texas Woman's University usually do so in F-1 or J-1 visa status. It is, however, possible to enter the U.S. on other nonimmigrant visas. For questions regarding immigration status, please contact the Office of International Education at intloffice@twu.edu or (940) 898-3338.

International Application Credentials

International students should submit all of the following to: TWU Office of International Education, P. O. Box 425827, Denton, TX 76204-5827:

1. A completed International Undergraduate Application for Admission. The application can be found at www.applytexas.org.
2. A \$75 international application fee. This non-refundable fee must be paid by check, money order, or credit card in American currency. Checks and money orders should be made payable to TWU and drawn on a U.S. Bank. Acceptable credit cards include Mastercard or Visa. Cash payments may only be made in person at the Bursar's Office.
3. Official copies of all transcripts/marksheets of previous college or university course work, or secondary school credits, diplomas, certificates, and/or national examination scores as given in student's country.

Please see below for specific requirements. Note: all transcripts must be sent in a sealed, unopened envelope. Faxed copies or unofficial copies are not acceptable. Transcripts from foreign institutions may be returned to the student if a written request and a self-addressed stamped envelope is submitted with the documents.

4. TOEFL test scores, IELTS test scores, or proof of exemption.

Criteria for Undergraduate International Students Admission

Undergraduate students may be admitted if the following criteria are met:

1. All international freshman applicants must possess the equivalent of a U.S. high school diploma based upon a combined elementary and secondary pattern of 12 years with the equivalent of a 2.0 GPA based on a 4.0 grading scale (“C” average). Freshman students who have the General Secondary Education Certificate, the West African School Certificate, or the Kenya Certificate of Education must present a minimum of 5 passes at grade “C” or higher. If a student has completed the GCE ‘A’ Levels, the student must submit official score reports. The table below (p. 29-30) presents minimum equivalents to a U.S. high school education. Transcripts or other academic records must be presented according to the following criteria:
 - Official transcripts or original mark sheets must bear the official seal and/or original signatures of school registrar from the issuing school. Transcripts must show a current issue date and be sent directly from the school. Photocopies or copies attested by non-school authorities will not be accepted.
 - Certificates issued by regional or national examining boards (GCE, GCSE, SSC, HSSC, WASC, KCSE, CXC, HKCE, School Leaving or other appropriate matriculation certificates) must be official certificates.
 - Official English translations must accompany official transcripts not prepared in English. When an original document cannot be duplicated according to the secondary school, university or examining board policy, attested copies may be substituted. Attestations must be made by the examining board/officer or designated school officials of the school attended. Copies attested by notary officials, translators, or other government posts are not acceptable substitutes.
2. International transfer students seeking admission to TWU must submit official transcripts/mark sheets from all colleges/universities attended in the U.S. and abroad. Transfer applicants with fewer than 12 semester hours of college level work must also submit secondary school (high school) records. The minimum grade point average for admission to TWU is 2.00 on a 4.00 scale, a “C” average.

- The International Transcript Evaluator will transfer all eligible courses; the TWU academic advisor will determine how these courses will be applied to the TWU degree.
 - F-1 students transferring from U.S. colleges or universities must submit a Transfer form from the Office of International Education or online.
3. All international undergraduate students (freshman transfer, post baccalaureate second degree) must present an acceptable Test of English as a Foreign Language (TOEFL) score of 79 or higher on the internet-based test, 550 or higher on the paper-based test, a 213 minimum score on the computer-based TOEFL test, or a 6.5 overall band score on the International English Language Testing System (IELTS) test. Test scores must be within two years of submission date.
- The following exceptions apply to the TOEFL requirements for undergraduate applicants:
 1. Students who have earned a diploma from an accredited U.S. high school or a degree from an accredited U.S. college or university.
 2. Students who have completed at least English 1013 or 1023 (Freshman Composition) with a grade of “C” or better from an accredited U.S. college or university.
 3. Students who have successfully completed Texas International Education Consortium (TIEC’s) advanced-level program as defined in the information provided by TIEP.
 4. Students who have completed Level 6 of an intensive English program at the University of North Texas or the University of Houston.
 5. Students who are citizens of Anguilla, Antigua, Australia, The Bahamas, Barbados, Belize, Bermuda British Virgin Islands, Canada (except Quebec), Cayman Islands, Dominica, Grenada, Guyana, British Guyana, Ireland, Jamaica, Liberia, Montserrat, New Zealand, St Kitts, and Nevis, St. Lucia, Sierra Leone, South Africa, St. Vincent, Trinidad and Tobago, Turks and Caicos Islands, United Kingdom (England, Northern Ireland, Scotland, Wales).
 6. Students who have the following test and scores:
 - Tests Score
 - APEIL 4 or Higher
 - CAE B or Higher
 - CPE C or Higher
 - SAT II E 968 or Higher
 - SAT Verbal 500 or Higher
 - ACT Verbal 19 or Higher
 - TAAS Reading Scaled score - TLI 4X-89
 - TAAS Writing Scaled score 1770

Students who have obtained the following foreign high school diploma/test/scores

GCE, GCSE, IGCSE: C or higher in English language
WASC, KCSE, SSCE or equivalent national exams: C or higher in English language

Applicants applying for an F-1 student visa will be issued an I-20 (form required to obtain a visa) after the student has been admitted to TWU. Documents required for immigration (financial statement, passport, etc.) must be submitted and approved by the Office of International Education before an I-20 will be issued. For more information, go to www.twu.edu/admissions/international.asp.

International Diploma Equivalencies

Country	Secondary Certificate or Diploma
Australia	Higher School Certificate, Senior Certificate, Senior Secondary Studies Certificate, Victorian Certificate of Education plus Statement of Results A and B, School Leaver Statement and Year 12 Certificate of Achievement
Bahrain	General Secondary Education Certificate (minimum of 5 "C" grades or higher)
Bangladesh	Intermediate Certificate or Higher Secondary Certificate
Canada	Manitoba High School Diploma Ontario Secondary School Graduation Diploma, Honours Graduate Diploma, Secondary School Diploma Quebec Senior High School Leaving Certificate Grade 12, Certificate of Graduation
Caribbean	General Certificate of Education "O" Level, Caribbean Examination Council (CXC) Secondary Examination Certificate
China	Senior Middle School Diploma
Colombia	Bachillerato
Egypt	General Secondary Education Certification
Ethiopia	Ethiopian School Leaving Certificate, Ethiopian Higher Education Entrance Exam
France	Diploma de Bachelier de l'Enseignement du Second Degre (Baccalaureat)
Germany	Reifezeugnis or Zeugnis der Reife (Abitur)
Ghana	West African School Certificate
Greece	Apolytirio Eniaiou Lykeiou (Upper Secondary School Certificate)
Guatemala	Bachiller, Certificado General de Estudios
Hong Kong	Hong Kong Certificate of Education
India	Higher Secondary Certificate (HSC), Higher Secondary School Certificate (HSSC), Senior Secondary Certificate, Pre-University Certificate, Pre-Degree Certificate
Indonesia	Surat Tanda Tanat Belajar (STTB) or Sekolah Menengah Unum Tingkat Atas (SMA)

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Iran	Sixth Year Secondary Certificate
Italy	Diploma di Maturita
Ivory Coast	Diplome de Bachelier de l'Enseignement du Second Degré
Japan	Upper Secondary School Leaving Certificate – academic or vocational (Kotogakko Sotsugyo Shomeisho)
Jordan	General Secondary Education Certificate
Kenya	Kenya Certificate of Education (KCSE)
Korea	Graduation Certificate from Secondary/Senior Middle School
Kuwait	General Secondary Education Certificate
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Latin America	Bachillerato or bachiller
Lebanon	Baccalauréat Part II (awarded until 1987), Baccalauréat Libanaise (Lebanese Baccalaureate) (awarded since 1990)
Malaysia	Malaysian Certificate of Education
Mexico	Certificado de Bachillerato (Baccalaureate Certificate), Certificado de Bachillerato Tecnológico (Technological Baccalaureate Certificate), Título de Bachiller (Title of Baccalaureate), Certificado de Preparatoria. Awarded upon completion of 3 years of upper secondary.
Nigeria	West African School Certificate
Norway	Examen Artium Certificate
Pakistan	Intermediate or Higher Secondary Certificate
Peru	Certificado de Educación Secundaria Completa (plus 1-2 years curso Preparatorio)
Philippines	High School Graduation Diploma (10 years), plus Associate Degree (2 years at university-level)
Russia	Certificate of Secondary Education (attestat zrelosti) (11 year minimum)
Saudi Arabia	General Secondary Education Certificate
Singapore	Singapore-Cambridge General Certificate of Education “A” Levels (GCE “O” Levels must also be submitted)
Spain	Titulo de Bachiller
Sri Lanka	Sri Lanka General Certificate of Education “A” Level
Sweden	Matriculation Certificate (Avgansbetyg)
Taiwan	Senior High School Diploma, or Junior Middle School Diploma with 5 year Junior College Diploma
Thailand	Certificate of Secondary Education (Matayom VI)
Turkey	Lise Diploması, {General Secondary School (Lycum Diploma)}
United Kingdom	General Certificate of Education “O” Levels, General Certificate of Secondary Education “O” Level
Venezuela	Bachillerato en Ciencias or en Humanidades
Vietnam	Bằng Tốt Nghiệp Trung Học Phổ Thông (Senior high school certificate)
Yugoslavia	Prior to 1980 — Matura. Since 1980 — Secondary School Leaving Diploma
Zimbabwe	Advanced and Ordinary level General Certificate of Education Examining Board Certificates

Credit By Examination, AP, CLEP

Students entering Texas Woman's University may be able to gain University credit for examinations. There are several types of examinations that may earn college credit with a minimum score requirement. They include:

1. The Advanced Placement Program (AP)
2. The College-Level Examination Program (CLEP)
3. The International Baccalaureate Program (IB)
4. Professional society tests in specific disciplines *
5. Departmental examination and/or reviews *

*Academic Departments will determine if credit is to be awarded for these exams.

Credit will be placed on the student's permanent record at the conclusion of the first semester of enrollment at the University. Credit received at another college or university for these tests will be accepted to TWU as transfer credits where applicable upon receipt of an official transcript. A student may not receive credit by examination for a TWU course in which she or he has enrolled. No more than 30 hours can be received as credit by examination. Official score reports may be submitted to the Office of Student Records directly from the test agency, recorded on an official high school transcript, or by an official student test score report submitted to the Office of Admissions or the Office of Student Records.

Satisfactory Scores Required to Earn College Credit Hours

CLEP Subject Examinations

Clep Subject Test	Clep Score	Credit Granted	TWU Equivalent Course
Composition & Literature			
American Literature	50	3 hrs	ENG 2033
Analyzing & Interpreting Literature	50	3 hrs	ENG TITLE*
English Composition with or without Essay (Tests taken through June 2010)	50 80	3 hrs 6 hrs	ENG 1013 ENG 1013, 1023
English Literature	50 80	3 hrs 6 hrs	ENG 2013 ENG 2013, 2023
Freshman College Composition (Tests taken through June 2010)	60-79 80	3 hrs 6 hrs	ENG 1013 ENG 1013, 1023
College Composition (Taken July 2010 forward) TWU does not accept the CLEP College Composition Modular Test	50	3 hrs	ENG 1013

Clep Subject Test	Clep Score	Credit Granted	TWU Equivalent Course
Foreign Languages			
French - Level 1	50	3 hrs	FR 1013
French - Level 2	59-79 80	6 hrs 9 hrs	FR 1013, 1023 FR 1013, 1023, 1033
Spanish - Level 1	50-57 58-65	3 hrs 6 hrs.	SPAN 1013 SPAN 1013, 1023
Spanish - Level 2	66-73 74-80	9 hrs 12 hrs	SPAN 1013, 1023, 1033 SPAN 1013, 1023, 1033, 1043
German - Level 1	50	3 hrs	FL TITLE *
German - Level 2	59-79 80	6 hrs 9 hrs	FL TITLE * FL TITLE *
Social Sciences & History			
American Government	50	3 hrs	GOV 2013
History of US - I	50	3 hrs	HIST 1013
History of US - II	50	3 hrs	HIST 1023
Human Growth & Development	50	3 hrs	PSY 1603
Humanities	50	3 hrs	TITLE*
Intro. To Educational Psychology	50	3 hrs	PSY TITLE*
Prin. Of Macroeconomics	50	3 hrs	ECO 1023
Prin. Of Microeconomics	50	3 hrs	ECO 1013
Intro. To Psychology	50	3 hrs	PSY 1013
Social Sciences & History	50	3 hrs	TITLE*
Intro. To Sociology	50	3 hrs	SOCI 1013
Western Civilization - I	50	3 hrs	HIST 2013
Western Civilization - II	50	3 hrs	HIST 2023
Science & Mathematics			
Biology	50	8 hrs	BIO 1111, 1113, 1121, 1123
Precalculus	50	3 hrs	MATH 1313
Calculus	50	8 hrs	MATH 2014, 2024
Chemistry	50	12 hrs	CHEM 1111, 1113, 1121, 1123

Clep Subject Test	Clep Score	Credit Granted	TWU Equivalent Course
Science & Mathematics			
College Algebra	50	3 hrs	MATH 1303
College Algebra - Trig.	50	3 hrs	MATH 1313
College Mathematics	50	3 hrs	MATH 1013
Natural Science	50	4 hrs	SCI 1114
Trigonometry	50	3 hrs	MATH 1313
Information Systems & Computer Applications	50	3 hrs	CSCI 1403
Business			
Prin. Of Accounting	50	6 hrs	BUS 2043, 2053
Intro. Business Law	50	3 hrs	BUS 3013
Prin. Of Marketing	50	3 hrs	BUS 3113
Prin. Of Management	50	3 hrs	BUS 3003

(*) Credit granted by title

AP Scores Required to Earn College Credit Hours

AP Exam	Score Required	TWU Course Awarded
ART HISTORY	3 or higher	ART 2503, 2513
STUDIO ART DRAWING	3 or higher	ART 1303, 1313
STUDIO ART – 2-D Design	3 or higher	ART 1203
STUDIO ART – 3-D Design	3 or higher	ART 1213
BIOLOGY	3 4 or 5	BIOL 1111, 1113 BIOL 1111, 1113, 1121, 1123
ENVIRONMENTAL SCIENCE	3 or higher	BIOL 1021, 1022
WORLD HISTORY	3 or higher	HIST 2013, 2023
CHEMISTRY	3 or higher	CHEM 1011, 1013, 1111, 1113, 1121, 1123
COMPUTER SCIENCE A	3 or higher	CSCI 1403
COMPUTER SCIENCE AB	3 or higher	CSCI 1411, 1413
MACROECONOMICS	3 or higher	ECO 1023
MICROECONOMICS	3 or higher	ECO 1013

AP Exam	Score Required	TWU Course Awarded
ENGLISH LANG & COMP	4 5	ENG 1013 ENG 1013, 1023
ENGLISH LIT & COMP	4 or 5	ENG 2143
FRENCH LANGUAGE	4 5	FR 1011, 1013 FR 1011, 1013, 1021, 1023
FRENCH LITERATURE	4 5	FR 1013 FR 1013, 1023
GOV & POL COMP	3 or higher	GOV 3723
U.S. GOV & POL	3 or higher	GOV 2013
EUROPEAN HISTORY	3 or higher	HIST 4513, 4663
U.S. HISTORY	3 or higher	HIST 1013, 1023
CALCULUS AB	3 or higher	MATH 2014
CALCULUS BC	3 or higher	MATH 2014, 2024
STATISTICS	3 or higher	MATH 1703
MUSIC THEORY	3 or higher	MU 1521, 1523
PHYSICS B	3 or higher	PHYS 1131, 1133, 1141, 1143
PHYSICS C/ ELEC & MAGNT	3 or higher	PHYS 2161, 2163
PHYSICS C/ MECHANICS	3 or higher	PHYS 2151, 2153
PSYCHOLOGY	3 or higher	PSY 1013
HUMAN GEOGRAPHY	3 or higher	SOCI 3283
SPANISH LANGUAGE	4 5	SPAN 1011, 1013 SPAN 1011, 1013, 1021, 1023
SPANISH LITERATURE	4 5	SPAN 1013 SPAN 1013, 1023
GERMAN LANGUAGE	4 5	*FL 1011, 1013 *FL 1011, 1013, 1021, 1023
LATIN LITERATURE	4 5	*FL 1011, 1013 *FL 1011, 1013, 1021, 1023
LATIN – VERGIL	4 5	*FL 1011, 1013 *FL 1011, 1013, 1021, 1023

* NOTE: These courses should be accepted as “N” Block courses.

International Baccalaureate (IB) Equivalency Chart

Texas Woman's University recognizes the strength of the International Baccalaureate (IB) program and has approved the granting of course credit for a 4 or higher on the Standard and Higher Level (HL) exams. Any entering freshman who holds an IB diploma with a score of 4 or higher on all subject exams will be granted a minimum of 24 college credit hours. Students from high schools that offer IB courses, but not the diploma, may receive credit. The exam level and scores detailed below will determine the amount of course credit awarded.

IB Exam	Score	TWU Course	Credit Hours	Meets Core
Biology (SL) Biology (HL)	4,5,6,7 4,5,6,7	BIOL 1111, 1113 BIOL 1111, 1113, 1121, 1123	4 8	✓
Business & Management	4,5,6,7	BUS 3183	3	✓
Chemistry (SL) Chemistry (HL)	4,5,6,7 4,5,6,7	CHEM 1011,1013 CHEM1011, 1013,1111, 1113, 1121,1123	4 12	✓
Computer Science	4,5,6,7	CSCI TITLE	4	✓
Economics (SL) Economics (HL)	4,5,6,7 4,5,6,7	ECO 1023 ECO 1013,1023	3 6	✓
English (SL) Language A1 or A2 English (HL) Language A1 of A2 Extended Essay	4,5,6,7 4,5,6,7 A,B,C	ENG 1013 ENG 1013,2043 ENG 1023	3 6 3	✓
Environmental Syst.	4,5,6,7	SCI 2113	3	✓
Geography	4,5,6,7	SOCI 3273	3	
Greek, Classical	4,5,6,7	TITLE	3	
History Americas Europe Africa E & SE Asia & Oceania S. Asia & Middle East Islamic History	4,5,6,7 4,5,6,7 4,5,6,7 4,5,6,7 4,5,6,7 4,5,6,7	HIST 1013,1023 HIST TITLE HIST TITLE HIST TITLE HIST TITLE HIST TITLE	6 6 6 6 6 6	✓
Information Technology in a Global Society	4,5,6,7	CSCI 1403	3	✓

IB Exam	Score	TWU Course	Credit Hours	Meets Core
Latin (SL)	4,5,6,7	FL TITLE	3	
Latin (HL)	4,5,6,7	FL TITLE	6	
Mathematics				
Mathematics (HL) w/ Further Mathematics	4,5,6,7	MATH 2014	4	✓
Mathematical Methods	4,5,6,7	MATH 1313	3	✓
Mathematical Studies	4,5,6,7	MATH 2203	3	
Modern Languages				
Language A1 or A2 (SL)				
French	4,5,6,7	FR 1013	3	
German	4,5,6,7	FL TITLE	3	
Portuguese	4,5,6,7	FL TITLE	3	
Russian	4,5,6,7	FL TITLE	3	
Spanish	4,5,6,7	SPAN 1013	3	
Other Languages	4,5,6,7	FL TITLE	3	
Language A1 or A2 (HL)				
French	4,5,6,7	FR 1013,1023	6	
German	4,5,6,7	FL TITLE	6	
Portuguese	4,5,6,7	FL TITLE	6	
Russian	4,5,6,7	FL TITLE	6	
Spanish	4,5,6,7	SPAN 1013,1023	6	✓
Other Languages	4,5,6,7	FL TITLE	6	
Language B (SL)				
French	4,5,6,7	FR 1013	3	
German	4,5,6,7	FL TITLE	3	
Portuguese	4,5,6,7	FL TITLE	3	
Russian	4,5,6,7	FL TITLE	3	
Spanish	4,5,6,7	SPAN 1013	3	✓
Other Languages	4,5,6,7	FL TITLE	3	
Language B (HL)				
French	4,5,6,7	FR 1013,1023	6	
German	4,5,6,7	FL TITLE	6	
Portuguese	4,5,6,7	FL TITLE	6	
Russian	4,5,6,7	FL TITLE	6	
Spanish	4,5,6,7	SPAN 1013,1023	6	✓
Other Languages	4,5,6,7	FL TITLE	6	
Language AB				
French	4,5,6,7	FR 1013	3	
German	4,5,6,7	FL TITLE	3	
Portuguese	4,5,6,7	FL TITLE	3	
Russian	4,5,6,7	FL TITLE	3	
Spanish	4,5,6,7	SPAN 1013	3	✓
Other Languages	4,5,6,7	FL TITLE	3	

IB Exam	Score	TWU Course	Credit Hours	Meets Core
Music	4,5,6,7	MU 2713	3	✓
Philosophy	4,5,6,7	PHIL 1023	3	✓
Physics (SL)	4,5,6,7	PHYS 1131, 1133	4	✓
Physics (HL)	4,5,6,7	PHYS 1131, 1133, 1141, 1143	8	✓
Psychology	4,5,6,7	PSY 1013	3	✓
Theatre Arts	4,5,6,7	DRAM 2493	3	✓
Visual Arts	4,5,6,7	ART 2713	3	✓

International Baccalaureate transcripts should be sent to:

Texas Woman's University
Office of Student Records Processing
P.O. Box 425649
Denton, TX 76204-5649

Financial Information

Cost Of Attendance

Tuition rates and all fees are subject to change at any time without prior notice by action by the Board of Regents or of the Texas Legislature. Payments for tuition, fees, and room and board should be made to Texas Woman’s University and should be addressed to the Office of the Bursar, Box 425439, Texas Woman’s University, Denton, Texas 76204. When students register online, they may make payments via the PayOnline feature on the Portal by credit card or electronic check.

Refer to the TWU Bursar’s website at www.twu.edu/bursar/ for details related to tuition, fees, payments and financial obligation to the University.

Tuition (Subject to Change)

The payment of tuition entitles the student to instruction in the various non-laboratory classes and use of the University Library.

Undergraduate	
Resident (in-state) students, 2011	\$168.00 per semester hour
Nonresident (out-of-state and foreign) students	\$478.00 per semester hour
Qualifying Oklahoma resident students.....	\$198.00 per semester hour
Graduate	
Resident (in-state) students, 2011	\$213.00 per semester hour
Nonresident (out-of-state and foreign) students	\$523.00 per semester hour

Updated tuition and fee rates and additional information can be found on the Bursar’s website at <http://www.twu.edu/bursar/>.

Concurrent Enrollment Tuition. Students who concurrently will enroll at both Texas Woman’s University and another state university or junior college should consult with the Registrar prior to enrollment at either institution.

Nonresident Classification for Tuition. Title 3 of the Texas Education Code specifies that out-of-state residents who come to Texas for the primary purpose of furthering their education will be classified as nonresident students. Persons enrolled for more than six semester hours during any long semester are considered nonresident students. Persons classified as nonresident students upon first enrollment at Texas Woman’s University are presumed to be

nonresidents for the period during which they continue as students. To petition for residency reclassification, the student must complete the Residency Questionnaire and submit it to the Office of the Registrar with appropriate documentation prior to the beginning of the semester.

Tuition Exceptions for Nonresidents. Non-resident or international students receiving competitive scholarships in the amount of \$1,000 or more awarded by Texas Woman's University may pay the in-state tuition rate. Non-resident students who hold appointment as graduate teaching assistants or graduate research assistants may pay the in-state tuition rate provided they are employed at least one-half time in a position which relates to their degree program.

Oklahoma Residents. Qualifying Oklahoma residents may be eligible for reduced tuition from other non-residents as authorized by action of the Texas Woman's University Board of Regents. This action applies only to Oklahoma undergraduate students. Eligible students must provide two (2) different documents showing physical location of residency to the Registrar's Office to qualify for this reduced rate.

Veterans Administration Benefits. Texas Woman's University honors the Montgomery G.I. Bill, the Hazlewood Act and dependent benefits. Benefit recipients are expected to remain in Academic Good Standing as defined in this catalog to be eligible for benefits. Students should contact the Registrar's Office for applications and other forms.

Undocumented Immigrant Students - (HB1403.) TEC 54.057(J)(4)

Texas law allows certain students who are not U.S. citizens to qualify for Texas resident tuition rates at public universities. This bill became effective with students applying for the Fall 2001 semester. HB1403 is a tuition residency classification, not an admissions policy. Students applying under HB1403 will be evaluated under the regular freshman and transfer admissions criteria.

Eligibility for HB1403 status may be granted if a student meets all of the following criteria:

1. Has graduated or will graduate from a Texas high school (this includes earning a GED), and
2. Has resided in Texas with parents or a court appointed legal guardian during the three years prior to graduation or receiving a GED, and
3. Has not taken any college credit hours prior to Fall 2001, and
4. Will provide a notarized affidavit stating that the student will file an application to become a permanent resident as soon as possible.

Excess Credit Hours and Extra Tuition for Resident Students. A higher tuition rate will be charged to any resident undergraduate student enrolled before fall 2006 who, before the academic session begins, has previously attempted a number of semester credit hours taken at any institution of higher education while classified as a resident student for tuition purposes that exceeds by at least 45 hours the number of semester credit hours required for completion of the degree program in

which the student is enrolled, except for those who fall within the exceptions set out in Section 61.059(b), (c), and (d) of the Texas Education Code (shown below). For this purpose, an undergraduate student who is not enrolled in a TWU degree program is considered to be enrolled in a degree program requiring a minimum of 120 semester credit hours. For students who began higher education in fall 2006, excess hours tuition applies when the student has exceeded the number of hours required for the degree by at least 30 credit hours.

Exceptions:

1. This regulation does NOT apply to semester credit hours earned before the 1999 fall semester.
2. For a student enrolled in a baccalaureate program under Section 51.931, semester credit hours earned by the student 10 or more years before the date the student begins the new degree program under Section 51.931 are not counted for purposes of determining whether the student has previously earned excess undergraduate semester credit hours.
3. The following are not counted for purposes of determining whether the undergraduate student has previously earned excess semester credit hours:
 - a. Semester credit hours earned by the student before receiving a baccalaureate degree that has previously been awarded to the student;
 - b. Semester credit hours earned by the student by examination or under any other procedure by which credit is earned without registering for a course for which tuition is charged;
 - c. Credit for a developmental education course or another course that does not count toward a degree program at the institution; and
 - d. Semester credit hours earned by the student at a private institution or an out-of-state institution.

Tuition for Courses Attempted More Than Twice

In implementing the General Appropriations Act of 2003, the Texas Higher Education Coordinating Board had established the following policy: “Public institutions of higher education may not submit for formula funding credit or contact hours attempted by students who have enrolled in courses containing the same content for a third or more times at institutions since September 1, 2001.”

Effective with Summer 2004 registration, and subject to approval by the TWU Board of Regents, a student who attempts a course with the same content more than twice will pay tuition for that course at the out-of-state rate.

Note: There are exceptions to this policy as designated by law. For example, exceptions include the following types of courses: thesis and dissertation courses; those music and art courses which involve more advanced content; independent study courses that are not substitutes for regular courses; special topics courses when topics vary; some developmental education courses; and continuing education courses required for professional certification.

Excess Hours Rule for Graduate Students. Doctoral resident students will be charged at the out-of-state rate for all doctoral work in excess of 99 semester

credit hours. (Note: Students in Counseling Psychology, School Psychology, and Nursing are charged at the out-of-state rate for all doctoral work in excess of 130 doctoral hours).

Required Fees (Subject to Change)

Computer Use Fee. A \$16.00 per credit hour computer use fee will be charged to all students who register for any semester. The computer use fee is assessed to help to cover the cost of computer operations used for admissions, registration, student financial aid, computer labs, student work stations, and other student computer services.

Course Fees. All courses will be assessed a minimum \$4.00 per semester credit hour fee for course related costs. If expenses for a course are determined by the university to exceed \$4.00, an additional amount will be assessed. The course fee may range from \$4.00 to \$200.00 per course.

Fitness and Recreation Fee. A fitness and recreation fee of \$75 per semester will be assessed to all students who enroll for the fall, spring or summer long semesters; \$37.50 for the summer terms, or \$18.75 for mini terms.

Graduate School Application Fee. A \$50.00 non-refundable application fee will be assessed all students who apply for admission to the Graduate School.

International Application Fee. A \$75.00 non-refundable application fee will be assessed all international students who apply for admission .

International Education Fee. A \$3.00 international education fee will be charged to all students who enroll. Funds collected under this fee will be used in assisting students participating in TWU international or exchange programs.

Late Registration Fee. Students will be assessed a \$50.00 non-refundable late registration fee if they register and/or pay beginning the first day of class for a semester. Students enrolling in an off-campus course or workshop which has its first meeting after the last day of late registration will be allowed to register without penalty at that class meeting time, but they may not enroll at a later time without being assessed the late registration fee.

Library Access Fee. A library access fee of \$9.00 per credit hour will be assessed.

Medical Services Fee. A medical services fee of \$43.00 per semester will be assessed all students who enroll for the long fall, spring, or summer terms; \$21.50 for summer terms, \$10.75 for mini terms; and \$14.34 for fall or spring short terms with special programs. The medical services fee is used to provide medical services to students at the University.

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Publication Fee. A \$2.00 publication fee will be charged to all students who register for any term. The publication fee is used to defray the cost of publishing the University catalogs, and other student-oriented University publications

Student Center Fee. A student center fee of \$32.00 will be charged to all students who register during the long fall, spring, or summer semesters; a \$16.00 fee will be charged to all students who register during a summer term; \$8.00 for a mini term; or \$10.67 for fall or spring short terms for special programs. The student center fee finances the Office of the Director of the Student Center and the maintenance of the student center areas on each campus.

Student Identification Card. An \$11.00 non-refundable fee to cover the cost of the student identification card is required of all students who register for each long fall, spring, and summer term. Fall or spring short terms for special programs will be \$3.67.

Student Services Fee. The student services fee is charged based on semester credit hours. For all semesters the fee is charged at a rate of \$29.04 per semester credit hour not to exceed the following maximums:

\$232.32 per semester during the fall, spring or summer long terms

\$116.16 for summer terms

\$58.08 for mini terms

The student service fee entitles students to a variety of services provided by University components or via contract from an outside provider. Components funded at least partially by student service fees are Career and Employment Services, Student Development, the Counseling Service, Disability Support Services, Intercollegiate Athletics, and the Wellness Center. The student service fee also enables students to attend special lectures, concerts, and dramatic presentations; to receive the university newspaper, the Lasso; to participate as members of the United Student Association; and to use a variety of recreational facilities.

Undergraduate Application Fee. A \$50.00 non-refundable application fee will be assessed all students who apply for admission.

Course Related Costs

Distance Learning Fees. A variable distance learning fee of up to \$300.00 per three-hour course may be assessed to students enrolled in distance learning courses.

Drop/Add Fee (Subject to Change). A \$10.00 fee will be charged for dropping or adding a course when the drop/add is initiated by the student. A charge will be made for each class dropped and/or each class added.

Malpractice Liability Insurance. Students enrolled in the Institute of Health Sciences or in other programs requiring clinical experience will be automatically charged a course related malpractice liability insurance fee.

Textbooks and Supplies. Students and faculty members may purchase textbooks and all school supplies at the University Bookstore. It is difficult to estimate the per-student cost of textbooks and supplies, since the figures vary considerably by level and subject matter area. The cost total will be affected by the proportion of used versus new textbooks purchased by students.

Other Costs and Fees

Returned Checks or Electronic Payments (Subject to Change). A service fee of \$30.00 will be levied on all returned checks or electronic payments if the bank is not at fault. Students giving TWU a bad check are subject to being dropped from the University unless they make such a check good within five working days after official notification by the Bursar's Office. It is the policy of Texas Woman's University to submit all bad checks to the Denton County District Attorney for collection.

Diploma and Graduation Fees. A candidate for graduation must pay fees for the diploma, academic regalia, and, if necessary, mailing of diploma. These costs may vary. To replace a previously issued diploma, an additional charge must be paid. Additional information may be obtained from the Registrar's office.

Housing and Meal Services. See separate bulletin available through the University Housing Director's office.

Replacement of Lost Meal Plan/I. D. Card (Subject to Change). A \$10.00 fee is required of all students who apply for the replacement of a lost meal plan or I. D. card.

Transcript Fee. A \$10.00 fee will be charged per request for an official TWU transcript by a student.

Payment and Refunds of Tuition and Fees

Tuition and Fees Payment Option. Each student is to select one of the following alternatives for the payment of tuition and fees during the fall and spring semesters:

1. Full payment of tuition and fees in advance of the beginning of the semester;
- or

- 2. One-fourth payment of tuition and fees in advance of the beginning of a fall or spring semester and separate, one-quarter payments due on assigned dates during the course of the semester. An incidental fee of \$15.00 payable at the same time of registration will be charged if this payment option is selected (subject to change).

Delinquent Payment Penalty (Subject to Change). As provided by law, any student who fails to make full payment of tuition and all fees by the due date may be prohibited from registering for classes until full payment is made. In addition, the following charges apply:

- A charge of \$15.00 for delinquent payment. Any student who does not make installment payments by the assigned due dates will be charged a delinquent fee of \$15.00 for each payment that is delinquent.
- The student will not receive course credit if full payment is not made prior to the end of the semester.

Refunds for Classes Dropped. Charges for tuition and fees are based on the total semester credit hours for which the student is registered as of the twelfth class day during the fall and spring semesters and the total semester credit hours for which the student is registered as of the fourth class day during each summer term. Refunds will not be made for any class dropped after the twelfth class day during the fall and spring semesters or after the fourth class day during each summer term. Full refunds will be given for classes dropped prior to these days provided the student remains enrolled in other credit hours.

Refunds for Withdrawal. Withdrawal from the University means officially dropping all classes through forms filed with the Office of Student Life. Refunds are prorated based on the day on which the student withdraws in relation to the Academic Calendar.* The following schedule determines the refunds for tuition and fees for long summer, fall or spring semester withdrawal:

Prior to the first class day: A non-refundable \$15.00 matriculation fee will be assessed.

Prior to the first class day of the semester	100%*
During the first five class days of the semester	80%
During the second five class days of the semester	70%
During the third five class days of the semester	50%
During the fourth five class days of the semester	25%
After the fourth five class days of the semester	None

No part of tuition or fees is returned after the 20th class day of the semester.

The following schedule determines the summer session or mini term refunds for tuition and fees upon withdrawal from the University (Education Code Section 54.006 (b2) Texas School Law Bulletin):

Prior to the first class day: A non-refundable \$15.00 matriculation fee will be assessed.

Prior to the 1st class day of the session	100%*
During the 1st class day of the session	80%
During the 2nd class day of the session	50%
3rd day of class of the session and thereafter	None

*The first class day is the date on which the semester actually begins according to the Academic Calendar and not the date of the individual's first class day. See the Academic Calendar in the front of this catalog and in all Schedule of Classes publications, and on the website.

Students withdrawing from the University who are enrolled for classes that begin after the last day for refunds will receive no refund of tuition and fees for those classes.

Information regarding tuition, fees, payment processes and options, financial obligation and responsibility can be found on the Bursar's website at www.twu.edu/bursar/.

Scholarships For Undergraduates

TWU is able to offer a variety of scholarships due to the generous contributions and support of the individuals and foundations listed in this section. The scholarships below are open to undergraduate students; some are available to all students, while others are available to students in the disciplines or activities shown. Applications for general scholarships open to all students should be submitted to the Financial Aid Office. Application for other scholarships should be made to the offices under which they are listed. Scholarships for graduate students are listed in the Graduate Catalog.

Application Deadline: Students who wish to apply for general scholarships must submit a completed TWU Scholarship Application to the TWU Financial Aid Office by March 15 prior to the academic year for which they are applying for scholarships. Students should also contact the academic department of their major in order to apply for scholarships that are awarded by the academic components.

General Eligibility Scholarships (Undergraduate Students)

(Apply to Office of Student Financial Aid)

NEW OR CONTINUING STUDENTS

Ann Stuart, Ph.D. and Ray R. Poliakoff Endowed Scholarship
 Bart and Ruth Hodges Endowed Scholarship
 Bertha A. Hubbard Endowed Memorial Scholarship
 Bowen and Leslie S. Pope Endowed Memorial Scholarship
 Carol Lee Jones Scholarship
 Chancellor's Endowed Scholarship
 Class of 1945-Frances Matsler Gordon Endowed Scholarship
 Class of 1952 Endowed Scholarship Fund
 Class of 1953 Endowed Scholarship Fund
 Class of 1954 Endowed Scholarship Fund
 Curry Endowment Fund
 Dorothy and Wendell Mayes Endowed Scholarship
 Ed and Nancy Millichamp Endowed Scholarship
 Eunice and Josie Maye McKinney Endowed Scholarship
 Fasken Foundation Scholarship
 George and Fay Young Endowed Scholarship
 George L. and Sarah White Button Memorial Endowed Scholarship
 Gertrude Gibson Endowed Scholarship
 Grace, Mary, Viola and Ruth Jackson Loveless Endowed Scholarship
 Hermes Endowed Scholarship
 J. Newton Rayzor Endowed Scholarship
 John A. Guinn Endowed Scholarship
 Dr. Johnnie Christian Endowed Scholarship
 Josephine Henry Cox Endowed Scholarship
 Kate Adele Hill Endowed Scholarship
 Ludie Clark Thompson Endowed Scholarship

Lillian Gray Williams Endowed Memorial Scholarship
 Malone H. Love Scholarship
 Marna and John Briggs Todd Scholarship
 Mary Bryan and Tom C. Reitch Scholarship
 Millie Hughes Fulford in Memory of Charlie Hughes Endowed Scholarship
 North American Aviation Scholarship
 Pauline E. Terrell Endowed Scholarship
 Ray and Bertha Lakey Endowed Scholarship
 Robinson-Hendricks Endowed Memorial Scholarship
 Ruth Ashcroft Stirling Endowed Memorial Scholarship
 Ruth Martin Crary Endowed Scholarship
 Shaun Burns Memorial Scholarship
 Thelma Van Trease Hook Endowed Scholarship
 W.E. & Marvin Loveless Endowed Memorial Scholarship

TRANSFER STUDENTS

Floy Agnew Endowed Scholarship

ENTERING FRESHMAN OR CONTINUING STUDENTS

Class of 1941 Endowed Scholarship
 Galvan Endowed Scholarship
 Kathleen May Gonzalez Endowed Scholarship
 Pacesetters of Greater Lewisville Scholarship
 Bart and Ruth Hodges Endowed Scholarship

Special Interest Scholarships

(Apply to the office under which the scholarship is listed in alphabetical order)

Alumni/ Former Student Association Scholarships

NEW OR CONTINUING STUDENTS

Alumnae Emerson Work Scholarship
 Gretna Cobbs Bedford Davis Endowed Scholarship

For a list of additional scholarships provided by Former Students Association visit www.twu.edu/alumni

Athletics Undergraduate Scholarships

NEW OR CONTINUING STUDENTS

Donna Terry Softball Endowed Scholarship
 Dr. Boots Cooper Athletic Endowed Scholarship
 Dr. Norman Chater Memorial Endowed Scholarship
 Giles-Galloway Athletic Scholarship
 Jo Kuhn Endowed Scholarship for Women's Athletics
 Katherine Winter Magee Athletic Endowed Scholarship
 LeBlanc Athletic Scholarship
 Lillian H. and C. W. Duncan Foundation Scholarship

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Norma M. Kudiesy Endowed Athletic Scholarship
Pioneer Athletic Scholarships
Sandra Souza Endowed Memorial Scholarship

Housing Undergraduate Scholarships

NEW OR CONTINUING STUDENTS

MacGray Residence Hall Scholarship

SINGLE PARENT STUDENTS

Curry Endowment

Dawson Endowed Scholarship

William Randolph Hearst Endowed Scholarships for Student/Parents

Houston Undergraduate Scholarships

NEW OR CONTINUING STUDENTS

Helene Fuld Health Trust Scholarship Fund for Baccalaureate
Nursing Students

Mary Alice Harris Metcalf Endowed Scholarship

Parry Endowed Nursing Scholarship

Sadler Bible Class Scholarship

Sam Houston Memorial Hospital Auxiliary Endowed Scholarship

University Area Women of Rotary Endowed Scholarship

Visiting Nurses Association Scholarship

CONTINUING STUDENTS

John Winston Carter Endowed Scholarship

Judith Buchanan Davis Endowed Memorial Scholarship

Mary Joyce Newsom Endowed Scholarship

Michael B. Duchin Endowed Memorial Scholarship

Staff

The J. Wilkes Berry, Ph.D. Memorial Endowment Fund

Academic Major Scholarships

Arts, School of

Dance Undergraduate Scholarships

NEW OR CONTINUING STUDENTS

Anne Schley Duggan Endowed Scholarship

Dance Scholarship

Frankie B. Clark Endowed Memorial Scholarship

Drama Undergraduate Scholarships

NEW OR CONTINUING STUDENTS

Ann Bradshaw Stokes Foundation Scholarship

Bill and Ann Stokes Scholarship Endowment

JoAn Rutledge McDaniel Endowed Scholarship

Betty King Endowed Scholarship in Dramatic Arts

Music Undergraduate Scholarships

NEW OR CONTINUING STUDENTS

Betty King Music Endowed Scholarship
 Caroline Barbee Bellamy Endowed Music Scholarship
 Hufford Endowed Scholarship
 Marion Elizabeth Jones Snowden Endowed Memorial Scholarship
 Mary Beth Glover Endowed Scholarship
 Nora Edna Manning Scholarship Endowment
 Richard Rodean Music Scholarship Endowment
 Rosabelle Ragin Pridmore Endowed Memorial Scholarship
 Rudd Scholarship and Loan Fund
 Sarah Verna Cox Coffey Endowed Scholarship
 Stella Owsley Endowed Memorial Scholarship

CONTINUING STUDENTS

Lee R. and Virgie McDonald Memorial Music Scholarship
 Lily Mildred Hodges Endowed Scholarship
 Presser Foundation Scholarship
 Richard and Marji Bentley Endowed Music Scholarship

Performing Arts Undergraduate Scholarships

NEW OR CONTINUING STUDENTS

Jan Lowrie Memorial Scholarship
 Mary Beth Glover Endowed Scholarship

Visual Arts Undergraduate Scholarships

NEW OR CONTINUING STUDENTS

Hazle Ruth Nelson Snodgrass Endowed Scholarship
 Mabel E. Maxcy Endowed Scholarship
 Marie Delleney Endowed Memorial Scholarship in Art
 Mary Beth Glover Endowed Scholarship
 Nora Edna Manning Scholarship Endowment
 Rowena Caldwell Elkin Endowed Scholarship
 Sue E. Comer Endowed Art Scholarship
 Catherine Cloud Edwards and Code Errol Edwards Endowed Scholarship
 Coreen Mary Spellman Delta Phi Delta Scholarship in Art
 Dorothy Antoinette LaSelle Memorial Scholarship in Art
 Helen Thomas Perry Endowed Scholarship
 J. Brough Miller Endowed Scholarship
 Norine Kitsinger Memorial Scholarship
 Thelma Merrifield Painter and Clarence Painter Endowed Scholarship

Biology Undergraduate Scholarships

NEW OR CONTINUING STUDENTS

Alan W. Cockerline Scholarship Endowment Fund
 Jessie Louise Herrick, M.D., Pre-Medical Endowed Scholarship
 Marguerite Dickson Barber Science Endowed Scholarship

Elizabeth A. Crisp Pre-Med Scholarship for Women
Dr. Robert Fuerst Endowed Scholarship
Peggy and L.M. Waddell Endowed Scholarship

Chemistry Undergraduate Scholarships

NEW STUDENTS (FIRST TIME FRESHMEN)

Elizabeth A. Crisp Pre-Med Scholarship for Women
Curie Scholarship in Chemistry

NEW & CONTINUING STUDENTS

Dr. Helen A. Ludeman Endowed Scholarship
Jessie Louise Herrick, M.D., Pre-Medical Endowed Scholarship
Marguerite Dickson Barber Science Endowed Scholarship
Peggy and L.M. Waddell Endowed Scholarship
Willis Clark Endowed Research Scholarship and Fellowship in Chemistry
George H. Stewart Chemistry Scholarship
Patricia George Sparks Endowed Scholarship

Communication Sciences Graduate Scholarships

NEW OR CONTINUING STUDENTS

Amanda Fleming Endowed Scholarship
Communication Sciences Student Fund
Earl C. Bryan Scholarship
M. Don Ryan Endowed Scholarship for Speech Pathology and
Education of the Deaf
Sadie Jones Ragsdale Endowed Scholarship

Dental Hygiene Undergraduate Scholarships

NEW OR CONTINUING STUDENTS

Bettee Andrews Dental Hygiene Endowed Scholarship
Nancy Glick Endowed Scholarship

English, Speech, and Foreign Languages Undergraduate Scholarships

NEW OR CONTINUING STUDENTS

Ada Cade McCurry and Martha Faye McCurry Savage
Endowed Scholarship
Autrey Nell Wiley Endowed Memorial Scholarship
Clarice Mixson Turner Endowed Scholarship
Edith and Edgar Deen Endowed Communications Scholarship
English and Speech Endowed Scholarship
Henry H. and Evelyn M. Blagg Endowed Scholarship
Ila Bost Roebuck Endowed Scholarship
Joyce Thompson Endowed Memorial Scholarship
Language and Literature Scholarship
Lavon B. Fulwiler Endowed Scholarship
Mabel F. Arbuthnot Endowed Scholarship in Foreign Languages

Roberta Clay TWU English Fund
Rod and Louise Kelly Lowery English Scholarship

CONTINUING STUDENTS

JoAn Rutledge McDaniel Endowed Scholarship
Joyce C. Palmer Scholarship
Maurine Faulkner Endowed Scholarship
Sigma Tau Delta Scholarship

Family Sciences Undergraduate Scholarships

NEW OR CONTINUING STUDENTS

Dury Lane Helm and Ardella R. Helm Endowed Scholarship
Dora Tyer Memorial Scholarship
Flora Nell Roebuck Endowed Scholarship
Grace Fewell Carothers Endowed Scholarship
Jacque E. Ramsey Endowed Scholarship
Jessie Bateman-Barns Narsutis Endowed Scholarship
Joan Mansfield Henkhaus Endowed Scholarship
Julia Hunter Endowed Scholarship
Ruth Adkisson Hare Endowed Scholarship
Ruth Ramey Sweeney Endowed Scholarship
Sarah Lucretia Cowen Endowed Scholarship
Susie G. Carlisle Endowed Scholarship

CONTINUING STUDENTS

Kathryn and Alex Williams Endowed Scholarship
Mabel Williams Sowell Endowed Scholarship
Veneta Onley Young Endowed Scholarship

Fashion & Textiles Undergraduate Scholarships

NEW OR CONTINUING STUDENTS

Dury Lane Helm and Ardella R. Helm Endowed Scholarship
Joan Mansfield Henkhaus Endowed Scholarship
Julia Hunter Endowed Scholarship
Myrtle Budd Richardson Endowed Scholarship
Richard Brooks Scholarship
Ruth Adkisson Hare Endowed Scholarship
Sarah Lucretia Cowan Endowed Scholarship
Susie G. Carlisle Endowed Scholarship

CONTINUING STUDENTS

Ann Talbot McLemore Endowed Scholarship
Myrtle Budd Richardson Endowed Memorial Award

Health Sciences, College of, Undergraduate Scholarships

NEW OR CONTINUING STUDENTS

Joyce M. Cronk, Ph.D. Endowed Scholarship
Mrs. Tilford (Audrey) Jones Scholarship

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Health Studies Undergraduate Scholarships

NEW OR CONTINUING STUDENTS

P.C. and Josephine Del Barto Endowed Scholarship
Jacinda Simone Kennedy Endowed Memorial Scholarship

History & Government Undergraduate Scholarships

NEW OR CONTINUING STUDENTS

Ada Cade McCurry and Martha Faye McCurry Savage
Endowed Scholarship
Mary Cartwright Brown Merrick and Helen Baldwin Bauer Smith
Endowment Fund
Dorothy D. DeMoss Memorial Scholarship Endowment
Paul P. and Arlee N. Young Endowed Scholarship
Professor and Mrs. John L. Dawson, Sr., and Dr. and
Mrs. Hubert G. Driggs Endowed Scholarship
Sarah Weddington Endowed Scholarship

CONTINUING STUDENTS

Eleanor Roosevelt Scholarship for Outstanding Public Service
Francis W. Emerson Scholarship in History and Government

Kinesiology Undergraduate Scholarships

NEW OR CONTINUING STUDENTS

Beverly Enterprises Scholarship
Anne Schley Duggan Endowed Scholarship
Herb and Della French Endowed Scholarship
Jean Pyfer Scholarship
Margot Purdy Memorial Scholarship
Marguerite Ann Murphy and Mary Agnes Murphy Memorial
Scholarship in Kinesiology
P.C. and Josephine Del Barto Endowed Scholarship

CONTINUING STUDENTS

E. Anne Sugars Endowed Scholarship
Ivalene & Robert Sherrill Physical Education Scholarship
Joyce M. Cronk, Ph.D. Endowed Scholarship
Patrick Griffin Memorial Scholarship
The Sanborn Scholarship

Management, School of, Undergraduate Scholarships

NEW OR CONTINUING STUDENTS

Arlyne Hagaard Daly Endowed Scholarship
Business and Economics Endowed Scholarship
Dr. Derrell Bulls Endowed Scholarship
Hoy Casey Gatlin Endowed Scholarship
Jackie Greer Endowed Enrichment Fund

LaVerne Collins Chatfield Endowed Scholarship
 Mabel Pearson and Charles H. Saunders Endowed Scholarship
 Mary Beth Glover Endowed Scholarship
 Maude Hemperley Pettit Endowed Scholarship
 Eliseo and Berta T. Garcia Endowed Scholarship

Mathematics and Computer Science Undergraduate Scholarships

NEW OR CONTINUING STUDENT

Dr. Ben Goldbeck Endowed Scholarship
 Harlan C. Miller Endowed Memorial Scholarship
 Maurine Faulkner Endowed Scholarship
 NSF CSEM Scholarship
 Texas Instruments Women in Engineering (WIN) Scholarship

CONTINUING STUDENT

Rose Marie Smith Endowed Scholarship for Student Teachers
 in Mathematics and Computer Science.

Nursing Undergraduate Scholarships

NEW STUDENTS

Angela Denise Crockett, Officer Candidate Seaman U.S. Navy TWU
 Class of 1992 Endowed Memorial Scholarship
 Antoinette M. Nagengast Endowed Scholarship

NEW OR CONTINUING STUDENTS

Carolyn S. Gunning Endowed Scholarship
 John Winston Carter Endowed Scholarship
 J.R.B. "Bob" Moore Scholarship Endowment
 Judith Buchanan Davis Endowed Memorial Scholarship
 Mary Alice Harris Metcalf Endowed Scholarship
 Mary Ann Mathews Baker Endowed Scholarship
 Mary Ethel McCulley Sowers Endowed Scholarship
 Mary Gibbs Jones Endowed Scholarship in Nursing
 Michael B. Duchin Endowed Scholarship
 P. C. and Josephine Del Barto Endowed Scholarship
 Parry Endowed Scholarship
 Fannie C. Potter Endowed Scholarship

CONTINUING STUDENTS

Betty Rudnick Endowed Scholarship in Nursing
 DAR Nursing Endowed Scholarship
 Dr. Deborah Tapler Endowed Scholarship in Nursing
 Faye Pannell Endowed Memorial Scholarship
 Henry and Billie Thompson Endowed Memorial Scholarship Fund
 Marvin T. MacDonald Endowed Nursing Scholarship
 Dallas/TWU Nurses Endowed Scholarship in Memory
 of Louise E. Haynes

Soraya and Joseph Fletcher and Carolyn S. Gunning Nursing Endowed
Scholarship
Terry L. Hodges Endowed Memorial Scholarship
Texas Federation of Women's Clubs, Mae Wadley Boyd Professional
Nursing Endowed Scholarship

Nutrition and Food Sciences Undergraduate Scholarships

NEW STUDENTS

Antoinette M. Nagengast Endowed Scholarship

NEW OR CONTINUING STUDENTS

Betty Igo Duncan and Diane Elizabeth Duncan Endowed Scholarship
Claude and Isla Castleberry Scholarship
Claudia G. Williams Endowed Memorial Scholarship
Doris McCarter Brownell Endowed Scholarship
Dury Lane Helm and Ardella R. Helm Endowed Scholarship
Ima Jean Boenker Scholarship
Joan Mansfield Henkhaus Endowed Scholarship
John Bascom and Kathryn Morris Endowed Scholarship
Julia Hunter Endowed Scholarship
Kennon S. Moffitt Scholarship
Langford-Brown Endowed Scholarship
Maurine Faulkner Endowed Scholarship
Nutrition and Food Sciences Scholarship
Ruth Adkisson Hare Endowed Scholarship
Susie G. Carlisle Endowed Scholarship
Mary Anne Carter Duke Ebert Endowed Scholarship

Teacher Education Undergraduate Scholarships

NEW OR CONTINUING STUDENTS

The Alvin A. Smith, Dora Mae Smith, and Bettye Smith Mischen Dunbar
Memorial Education Scholarship Endowment
Clifton Tinsley Sparks Memorial Scholarship
Dr. Ethel M. Leach Special Education Scholarship
Ermance Rejebian Scholarship
Gabrielle and Joseph Crighton Endowed Scholarship
Grace Fewell Carothers Endowed Scholarship
Joyce Phillips Rinehart Endowment Fund
Kathryn and Alex Williams Endowed Scholarship
Mary Evelyn Dunn Hayes Endowed Scholarship
Mildred Dulaney Endowed Scholarship
Nita Parker Brodgon Endowed Memorial Scholarship
P. C. and Josephine Del Barto Endowed Scholarship
Ralph and Kay West Scholarship Endowment in Honor of
Frances Myers deCordova

Fora Nell Roebuck Endowed Scholarship
Natalie Forsyth Hermann Endowed Memorial Scholarship
Rose Anne Lerma Memorial Scholarship
Robert O. Benfield Endowed Memorial Scholarship
Maria Alicia Travelle Memorial Scholarship
Ruth Tompkins Scholarship
Melvin E. Rust Endowed Memorial Scholarship
Natha Elizabeth Howell Scholarship
John E. Riley Memorial Scholarship
Sondra Bonnington Endowed Special Education Scholarship
Nina Scott Hulsey Endowed Memorial Scholarship

Psychology & Philosophy Undergraduate Scholarships

NEW OR CONTINUING STUDENTS

Undergraduate Scholarship Endowment
Dr. Karen A. Jackson Psychology Endowed Scholarship

Sociology and Social Work Undergraduate Scholarships

NEW OR CONTINUING STUDENTS

Albert Barstis Endowed Scholarship
Anita Cowan Endowed Scholarship
Ann Lindemann Starnater Endowed Scholarship
Bertha and Morris Levy Endowed Scholarship
Charles Rodney Albert Endowed Memorial Scholarship
Jeanne Powell Scholarship
Jessie H. Humphries Endowed Scholarship
Mary Cartwright Brown Merrick and Helen Baldwin Bauer Smith
Endowment Fund

CONTINUING STUDENTS

Daniel Forrister, Ph.D., Endowed Scholarship
Maureen Gallagher Memorial Scholarship
Reba Bucklew Sociology and Social Work Endowed Fund

FINANCIAL AID

The TWU Office of Student Financial Aid provides financial assistance to qualified students. Aid may be awarded in the form of work, grants, loans, assistantships, scholarships or some combination of these. The applicant's financial need, academic achievement, community and school service, and potential achievement may be considered in determining eligibility for different programs.

Application Process

To apply for grants, loans and/or college work-study, a student must complete the TWU Financial Aid Certificatoin and Information Form and the Free Application for Federal Student Aid (FAFSA) for the appropriate years. These forms are available in hard copy by contacting the TWU Office of Student Financial Aid or on-line at www.twu.edu/finaid/.

Financial aid applications are processed by the Office of Student Financial Aid in the order in which files become complete.

Deadlines for Financial Aid Applications:

Academic Scholarships:	March 15
*Summer Financial Aid:	March 15
*Fall/Spring Financial Aid:	March 15
*Spring Only Financial Aid:	September 1

*Priority Deadlines: Applications received after these dates will be processed on a funds-available basis. Late applicants should be aware that funds may not be available as early as they are needed for payment of tuition, fees, and related educational expenses.

Applications and additional information may be accessed at www.twu.edu/finaid/ or by contacting the TWU Office of Student Financial Aid, P.O. Box 425408, Denton, Texas 76204-5408, (940) 898-3064.

General Eligibility Requirements

Students with a non-degree admission status are not eligible for financial aid. To receive financial aid including grants, loans, and college work-study, a student must:

1. Have a high school diploma or GED,
2. Be enrolled for at least six credit hours each semester, (*See "Enrollment Requirements for Financial Aid" on the following page.)
3. Be maintaining satisfactory academic progress in her or his course of study,
4. Be accepted into a degree or certificate program,

5. Be working toward a degree or certification program,
6. Use all funds received through financial aid programs to meet educational cost directly related to attendance at the University,
7. Be properly registered with Selective Service or exempt from such registration,
8. Be a U.S. citizen, eligible permanent resident or eligible non-citizen,
9. Not be in default on any federal student loan at any institution, and
10. Not owe a refund on a federal student grant.
11. Not have been convicted for possession or sale of illegal drugs for an offense that occurred while receiving federal or state student financial aid.

International Students Financial Aid Eligibility. Students who are not citizens or permanent residents of the United States may apply for scholarships, Emergency Loans, and Texas Public Education Grant (TPEG). Students should contact the Office of Student Financial Aid for the appropriate application forms to apply for TPEG. International students may contact the Office of International Education to determine eligibility for on-campus employment.

Enrollment Requirement for Financial Aid. To be eligible for most financial aid awards, students must be enrolled at least half-time in a degree or certificate program at Texas Woman's University. Six credit hours constitutes half-time enrollment at both the undergraduate and graduate level. Hours of enrollment at other colleges or universities cannot be considered to meet this enrollment requirement. Also, developmental courses count as enrolled hours for financial aid purposes only for freshmen students (29 or fewer credit hours). Developmental courses include: Math 1113, Math 1123, English 1003, and Reading 1003.

Academic Scholarships require full-time enrollment. Twelve credit hours constitutes full-time enrollment for undergraduate students. Nine credit hours constitutes full-time enrollment for graduate students. Graduating students who lack fewer than the number of hours to constitute full-time enrollment (twelve or nine respectively) may contact the Office of Student Financial Aid to request an exception to the full-time enrollment requirement for their final semester.

Summer school applicants who plan to attend only one summer session must enroll for at least six credit hours during that session to receive grant, loan, or college work-study funds. Applicants enrolling in two five-week summer sessions must enroll for at least six credit hours in the first session to receive grant, loan, or college work-study funds during the first session.

Satisfactory Academic Progress Requirements

Federal regulations require financial aid applicants to make satisfactory academic progress toward their degree or certification in order to qualify for financial aid. Applicants are evaluated each semester and must meet certain

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minimum academic standards relating to cumulative grade point average and the number of hours attempted and completed.

Minimum Cumulative Grade Point Average. The chart below indicates the minimum grade point average requirements based on credit hours attempted.

<u>Total Hours Attempted</u>	<u>Minimum Cumulative Grade Point Average</u>
0-29	1.8
30 or more undergraduate hours	2.0
Graduate Students	3.0

Minimum Hours of Completion. The following chart indicates the minimum hours per semester that must be successfully completed based on hours attempted for the semester:

<u>Undergraduate Students Enrolling in:</u>	<u>Must successfully complete:</u>
12 or more	9
6-11 hours	6
1-5 hours	all hours attempted

Grades of F, I, W, WP, X, ##, WF do not represent successful completion.

<u>Graduate Students Enrolling in:</u>	<u>Must successfully complete:</u>
6 or more hours	6 hours
1-5 hours	all hours attempted

Grades of F, I, W, WP, X, ##, WF do not represent successful completion.

Maximum Attempted Hours. Satisfactory Academic Progress requirements also limit to the number of hours that a student can attempt or earn toward each degree and continue to receive financial aid. The credit hour limits indicated below include hours transferred from other colleges and all hours attempted and/or earned at TWU whether or not the student received financial assistance for the hours.

<u>Degree:</u>	<u>Maximum Credit Hours of Eligibility:</u>
First Bachelors Degree * (see exception)	186 credit hours
*Exception: Occupational Therapy Bachelors	276 credit hours
Second Bachelors Degree	93 additional credit hours
Masters Degree	54 credit hours
Doctoral Degree	90 credit hours

If an applicant's curriculum requires more course work than the allowable maximum, a letter from the department chair specifying the total hours required may be submitted to the Office of Student Financial Aid for re-evaluation.

Satisfactory Academic Progress Appeals. Students with mitigating circumstances such as divorce of a parent or spouse, death of an immediate family member, or severe medical problems may appeal their status to the Director of Student Financial Aid. Written documentation is required for an appeal. Additional requirements are listed in individual program descriptions in this document.

Grants

Grants are awards of funds which do not require repayment and are usually awarded based on documented financial need.

Federal Pell Grant. Federal Pell Grant Awards range from \$400 to \$5,550 annually depending upon the student's eligibility. Awards are reduced for enrollment of less than 12 credit hours. To be eligible, applicants must not have received a baccalaureate degree. The Federal Pell Grant Processing Center will calculate the student's eligibility from the Free Application for Federal Student Aid (FAFSA) and report this information to the student and to the financial aid office.

Federal Supplemental Educational Opportunity Grant. This grant is awarded on the basis of exceptional financial need to undergraduate students who have not received a baccalaureate degree. Awards range from \$200 to \$4,000 per year.

TEACH Grant. This grant is awarded to eligible students who enroll in coursework necessary to begin a career in teaching or plan to complete such coursework. Awards provide up to \$4,000 per year (\$16,000 total for four-year programs) in grants to students who intend to teach full-time in high-need subject areas for at least four years at schools that serve students from low-income families. Graduate students are also eligible for \$4,000 per year (\$8,000 total). For students who receive the TEACH Grant, but fail to teach at least four years in an eligible curriculum, the grant becomes an interest bearing loan. Eligible applicants must have scored above the 75th percentile on the SAT, ACT, or GRE, or have graduated from high school with a cumulative grade point average of at least 3.25 on a 4.0 scale and earn a cumulative grade point average of at least 3.25 throughout the academic program for which the TEACH Grant is issued.

To avoid repaying the TEACH Grant as a loan with interest, a recipient must be a highly-qualified, full-time teacher in a high-need subject area, for at least four years within eight years of graduation, at a school serving low-income students.

Texas Public Education Grant. This Texas grant is awarded to eligible Texas resident, non-Texas resident, and international students both at the graduate and

undergraduate levels. It is awarded on the basis of financial need. Awards vary in size depending on the student's eligibility.

Leveraging Educational Assistance Partnership Program (LEAP). This grant is awarded on the basis of financial need to undergraduate Texas resident students. Awards range from \$100 to \$2,000 per year depending on the student's eligibility.

Special Leveraging Educational Assistance Partnership Program (SLEAP). This grant is awarded on the basis of financial need to undergraduate Texas resident students. Awards range from \$100 to \$1,250 per year depending upon the student's eligibility.

Toward Excellence, Access and Success Grant (TEXAS Grant). TEXAS Grant awards pay \$6,780 annually. Applicants must be Texas residents who have exceptional documented financial need, enroll at least full-time (twelve hours per semester) unless granted a hardship provision, have not been granted a baccalaureate degree, have not been convicted of a felony or any drug related offense unless they have been pardoned or have received a certificate of discharge by the Texas Department of Criminal Justice, and meet one of the following conditions:

1. Are graduates of a public or accredited private school in Texas not earlier than the 1998-99 school year having completed the recommended or advanced high school curriculum or its equivalent, and enroll as an entering undergraduate student not later than the end of the 16th month after the month of high school graduation (Graduates from school districts certified not to offer all college preparatory programs, but who have completed all courses at the high school offered toward a college preparatory program, may be considered); or
2. Have received an associate degree from an eligible institution no earlier than May 1, 2001, and re-enrolled not later than the end of the 12th month after the month the person receives an associate degree.

Students may be considered for continuation of the TEXAS Grant for undergraduate study up to 150 hours or six years, which ever comes first, as long as the following requirements are met:

- Minimum of full-time enrollment (twelve hours per semester),
- Minimum 2.5 cumulative grade point average,
- Completion of at least 75% of all courses attempted, and
- Documented financial need.

In the event of a hardship or for other good cause, an otherwise eligible person may receive a TEXAS grant while enrolled for an equivalent of less than full-time. Such conditions include, but are not limited to:

1. A showing of a severe illness or other debilitating condition that may affect the student's academic performance,
2. An indication that the student is responsible for the care of a sick,

injured, or needy person and that the student's provision of care may affect his or her academic performance; or

3. The requirement of fewer than nine hours to complete one's degree plan.

Under no circumstance, other than fewer hours required for graduation, may a person enrolled less than half time receive a TEXAS grant.

Employment

Students who are eligible to work in the United States may apply for employment as part of a financial aid package or in addition to the financial package, depending on the limits of the programs described in this section. In compliance with the Immigration Reform and Control Act of 1986, all employees hired after November 6, 1986, will be required to supply documents which provide proof of identity and eligibility for employment in the United States.

Examples of Employment Eligibility Documents:

Valid driver's license and valid social security card.

*Certificate of United States Citizenship (INS Form N-456 or N-561).

*Certificate of Naturalization (INS Form N-550 or N-570).

*Alien Registration receipt card.

*United States passport.

*For students who applied for residency or citizenship through the U.S. Immigration and Naturalization Service.

College Work Study Programs. College Work Study programs permit undergraduate and graduate students to earn from \$700 to \$7,250 annually. Awards are based on financial need and are part of the student's financial aid package. Jobs include work in dining services, offices, laboratories, library, and maintenance, etc.

TWU Student Employment. Both financial aid and non-financial aid recipients may work on campus as student assistants under the Student Employment Program. This program is not part of the financial aid package. Participants must be enrolled for at least six credit hours and be eligible to work in the United States. Participants may earn up to \$5,760 per academic year. This program is coordinated through Career Services located in the Human Development Building for students on the Denton Campus. Employment at the Dallas and Houston centers is coordinated by the Financial Aid representative located at those centers.

Loans

Students who receive loans as part of their financial aid award must complete Entrance Loan Counseling prior to receiving the loan funds. Entrance Loan Counseling may be completed online at www.twu.edu/finaid/ or in person by calling (940) 898-3067 to schedule an appointment.

Need-Based Loans

These loans are based on documented financial need. Repayment and interest are deferred as long as the student is enrolled for at least six credit hours plus a grace period of six to nine months depending on the loan type. Due to the deferred interest benefit of the need-based loans, the Office of Student Financial Aid will award a student her or his maximum eligibility for need-based loans before awarding non-need based loans which accrue interest from the date of disbursement (See “Non-Need Based Loans” below).

Federal Perkins Student Loan. This loan is available to undergraduate and graduate students on the basis of exceptional financial need. Repayment and interest are deferred until six months after the student graduates or ceases to be enrolled for at least six credit hours. The current interest rate is 5% annually. Under certain circumstances a portion of the loan may be canceled for designated public service.

Federal Perkins Student Loan Maximums

Borrower’s Academic Level	Annual Limit	Aggregate/Cumulative Maximum
Undergraduate	\$5,500	\$27,500
Graduate	\$8,000	\$60,000*
*Includes amounts borrowed at the undergraduate level.		

Federal Direct Subsidized Stafford Student Loan. This loan is available to undergraduate and graduate students on the basis of documented financial need. Repayment and interest are deferred until six months after the student graduates or ceases to be enrolled for at least six credit hours. The interest rate is variable up to 8.25% and is adjusted each year on July 1. The actual interest rate will be printed on the Disclosure Statement which the student will receive from the lender. The lending institution will notify the student borrower of interest rate changes throughout the life of the loan. Distinctions between this loan and the Unsubsidized Stafford Loan (see “Non-Need Based Loans” below) are that the Unsubsidized Stafford Loan does not require documented financial need and interest on the Unsubsidized Stafford Loan begins to accrue when funds are disbursed.

Table 1 below indicates the maximum Federal Subsidized Stafford Student Loan for each academic level. Table 2 indicates the cumulative maximums for Subsidized and Unsubsidized Federal Stafford Student Loans for each student category.

TABLE 1

Subsidized Stafford Loan
Annual Maximums

Borrower's Academic Level	Maximum Annual Amount
Freshman	\$3,500
Sophomore	\$4,500
Junior	\$5,500
Senior	\$5,500
Graduate	\$8,500

TABLE 2

Cumulative Maximums for Stafford Loans:
Subsidized + Unsubsidized

Dependent Undergraduate Subsidized + Unsubsidized	\$31,000
Independent Undergraduate Subsidized only	\$23,000
Unsubsidized + Unsubsidized	\$57,500
Graduate (Includes undergraduate loans) Subsidized only	\$65,000
Unsubsidized + Unsubsidized	\$138,500

Nursing Student Loan. This loan is available to undergraduate and graduate nursing majors on the basis of financial need. The interest rate is currently 5% annually. Repayment and interest are deferred until nine months after a borrower graduates or ceases to be enrolled for at least six credit hours in the College of Nursing.

Nursing Student Loan Maximums

Borrower's Academic Level	Annual Maximum
Freshman & Sophomore	\$2,500
Junior & Senior	\$4,000
Graduate	\$4,000

The aggregate/cumulative maximum is \$13,000 including amounts borrowed for both undergraduate and graduate study.

Non-Need Based Loans

These loans are not limited to students who have documented financial need. Although financial need is not a criterion, loan amounts may be affected by other aid received. Interest begins to accrue from the date of disbursement. In the case of the Federal unsubsidized Stafford Loan, the College Access Loan, and the Ralston Loan repayment is deferred until six months after the student graduates or ceases to be enrolled for at least six credit hours.

Federal Direct Unsubsidized Stafford Student Loan. This loan is available to undergraduate and graduate students. Interest begins to accrue when the funds are disbursed. Repayment is deferred until six months after the student graduates or ceases to be enrolled for at least six credit hours. The interest rate is variable up to 8.25% and is adjusted each year on July 1. The actual interest rate will be printed on the Disclosure Statement which the student will receive from the lender. The lending institution will notify the student borrower of interest rate changes throughout the life of the loan. Borrowers may take up to 10 years to repay the debt.

This loan differs from the Federal Subsidized Loan in that the Subsidized Stafford Loan requires documented financial need and interest on the Subsidized Stafford Loan is deferred until six months after the student graduates or ceases to be enrolled for at least six credit hours.

Stafford Loan Eligibility Limits. Loan amounts are subject to annual limits and cumulative limits determined by student classifications and whether the loan is subsidized or unsubsidized as shown in Tables 1 and 2 above. Table 3 below indicates the annual maximums for Stafford Subsidized and Unsubsidized combined according to classification and dependency status.

Table 3. Annual Maximums: Federal Unsubsidized Stafford Student Loans

	Dependent Student Subsidized + Unsubsidized	Independent Student Subsidized + Unsubsidized
Freshman	\$5,500	\$9,500
Sophomore	\$6,500	\$10,500
Junior	\$7,500	\$12,500
Senior	\$7,500	\$12,500
Graduate	N/A	\$20,500

To determine their remaining annual eligibility for Federal Unsubsidized Stafford Student Loan, students must subtract Subsidized Stafford Student Loan annual award from appropriate amount indicated in this chart. See Table 2 in previous section for cumulative maximums.

Texas B-On-Time Loan (BOT)*

The Texas B-On-Time Loan is awarded to Texas residents who are eligible for federal financial aid and who meet the following conditions:

- Are graduates of public or accredited private high schools in Texas not earlier than the 2002-2003 academic year,
- Completed the recommended or advanced high school curriculum,
- Have not yet earned a bachelor’s degree,
- Are enrolled full-time in an undergraduate degree or certificate program at an eligible institution,
- Have completed a FAFSA
- Have not completed 150 credit hours,
- Have been certified by the financial aid office as eligible for the Texas B-on-Time Loan.

Loan amounts are up to \$6,780 annually and any amounts borrowed may be cancelled or forgiven if the borrower:

- Finishes a four-year degree in four years, having taken no more than 6 semester hours beyond what is required for his or her major, or
- Finishes a five-year degree in five years, having taken no more than 6 semester hours beyond what is required for his or her major, and
- Graduates with a cumulative GPA of 3.0 or higher.

A 3% origination fee will be deducted from each loan. Once a student has received a loan through this program, to maintain eligibility for future disbursements, the student must make satisfactory academic progress in the first year and complete at least 75% of hours attempted with a cumulative GPA of 2.5 or higher in second and subsequent years.

In cases where borrowers do not meet requirements to have the loan forgiven, repayment will begin 6 months after the student ceases to be enrolled. There will be no interest charged on the loan unless a judgment is obtained against the borrower for default in payment. If interest is assessed, it will be at the rate specified in section 304.003 of the Texas Finance Code.

*Students awarded this loan must go to www.HHLoans.com after receiving their Award Letter, print their promissory note, sign it, and mail it to the Texas Higher Education Coordinating Board using the address on the promissory note.

College Access Loan. This loan is offered by the Texas Higher Education Coordinating Board to undergraduate and graduate students who are Texas residents or who are eligible to pay Texas resident tuition. This loan is not limited to students with documented financial need. Simple interest of 6.0% begins to accrue when funds are disbursed. Repayment begins six months after the student graduates or ceases to be enrolled for at least six credit hours. In addition to the Free Application for Federal Student Aid and the TWU application for Student Financial Aid, applicants must complete a College Access Loan application including the notarized signature of a credit-worthy payment guarantor (co-signer) other than a spouse. Students may borrow up to the cost of attendance annually. The aggregate/cumulative loan limit is \$45,000. The minimum monthly payment is \$50.00. Principle and interest must be paid in full within 10 years after repayment begins.

Emergency Loans. This short-term loan is available to assist undergraduate and graduate students in paying tuition and fee charges, and in some cases, partial on-campus room and board charges. This loan does not require documented financial need. Interest rates range from 3%-5% annually. Repayment must be made in full, usually within 30 - 60 days.

Ralston Student Loan. This loan is available on the basis of financial need to Texas residents who are full-time medical or nursing students. Loans will not be made to freshman students nor will loans be made for residency or post-graduate work. Annual loan limits are \$5,000 for medical students and \$2,000 for nursing students. The interest rate is 7.5% annually, except for students who specialize in the study of the eye for whom the interest rate is 6.5%. Repayment of the loan begins three months after graduation or termination of the student's studies. **Parent Loan for Undergraduate Students (PLUS).** This loan is available to the parent of a dependent student for the student's educational expenses. Parents may borrow up to the student's cost of attendance minus other financial aid annually. Generally, repayment begins 60 days after the final loan disbursement for the loan period. Interest accrues from date of disbursement at a variable rate not to exceed 9% annually. The federal government sets the rate each year. This loan does not require an

evaluation of financial need to determine eligibility but may require a review of the parent borrower's credit history. Loans under this program are made by commercial lenders such as banks and credit unions. A list of possible lenders may be obtained by contacting the Financial Aid Office or on-line at www.twu.edu/finaid/.

Graduate PLUS Loan (GPLUS). This loan is available to graduate students who are enrolled in a degree or certification program at least half-time (6 credit hours/semester). Applicants must be U.S. citizens, U.S. nationals, or permanent residents and must have exhausted their annual Stafford Loan eligibility. Students may borrow up to the cost of attendance minus other financial aid received. Repayment begins immediately after the final disbursement, however, the loan payments will be deferred while the borrower is enrolled at least half-time. The interest rate is set annually by the federal government and is currently fixed at 8.5% annually. The maximum repayment period is 10 years.

Rights, Responsibilities & Other Legal Matters

Withdrawing or Dropping Courses. A student who withdraws or drops courses after receiving a financial aid payment may be required to repay part or all of their financial aid immediately. Withdrawing or dropping below six credit hours may also impact future financial aid eligibility. Students are strongly advised to contact the Office of Student Financial Aid prior to making decisions regarding withdrawing or dropping classes. Also, see the "Satisfactory Academic Progress Requirements" information in the "General Eligibility Requirements" section of this document for information on the impact of dropping classes or withdrawing.

Simply not attending class, or not paying for the registration, will not automatically cancel the classes. Failure to withdraw officially will result in grades of "F" for each class in which one has pre-registered. Students may incur additional cost if proper withdrawal procedures are not followed. Some financial aid funds such as grants, scholarships, Federal Perkins Loans, Federal Stafford Student Loans, Parent Loans for Undergraduate Students, College Access Loans, Emergency Loans, and Nursing Student Loans are applied automatically toward registration or pre-registration charges. This results in the student's registration or pre-registration being finalized. Consequently, students who register online or by telephone, and later decide not to attend Texas Woman's University, must contact Student Life at (940) 898-3601 to officially withdraw from all classes. Failure to officially withdraw may make the student responsible for repaying financial aid. See "Financial Aid Refunds and Repayments" section below.

Financial Aid Refunds and Repayments. Financial aid recipients who enroll and receive aid for a particular semester, then fail to complete 60% of the days in that semester, will be required to repay part or all of the aid received for that semester. Additionally, any tuition, fees, room or board payments refunded by TWU as a result of a student's withdrawal must be returned to the financial aid programs in accordance with federal law.

Up through the 60% point in each semester, a pro rata schedule is used to determine the amount of aid to be repaid by a student who withdraws. No adjustments in financial aid are required for students who withdraw after the 60% point in the semester. Examples of refund and repayments calculations for financial aid recipients may be obtained from the Office of Student Financial Aid. Also see “Withdrawing or Dropping Courses” section above.

Financial Aid Over-awards. In accordance with federal law, financial aid awards will be revised if the recipient receives additional financial resources after a financial aid award has been offered by TWU. These revisions may result in reductions to other awards. For information on the impact of receiving additional assistance after awards have been made by TWU Office of Student Financial Aid, contact the Office of Student Financial Aid.

Legal Rights and Responsibilities of Financial Aid Recipients. Students receiving federal student aid have certain legal rights and responsibilities. A list of these rights and responsibilities can be obtained by contacting the Office of Student Financial Aid or on-line at www.twu.edu/finaid/.

Academic Information

ACADEMIC PLANNING

Academic Advising

All TWU students meet with the academic advisors or faculty advisors in their major program prior to registering each semester to develop a schedule of courses needed to complete their degree requirements.

Working with advisors supports academic success. Academic advisors discuss with students their decisions about educational and career goals, as well as informing them about degree requirements and opportunities. It is the responsibility of students to investigate necessary resources and information to help them make informed decisions regarding their academic careers. Students should work with advisors to stay informed about current university policy, departmental scholarships, and support services.

Credit Hour Load

An undergraduate student may not enroll for more than 19 semester credit hours during a fall or spring semester, or more than 17 semester credit hours during the summer, including Maymester. Exceptions require the approval of the department chairperson, program director, or associate dean. Exceptions will be considered only if additional course work is in the best interests of the student, when the student is in good academic standing, and has a grade point average of 3.0 or higher for the last two semesters. Students are expected to prepare for classes with a minimum of two to three hours of study for each credit hour.

DARS (Degree Audit Reporting System)

DARS is the official degree audit tool utilized by TWU to determine graduation certification. Students should check their online DARS record each semester and work with their advisor in planning or making changes. The DARS system shows courses and requirements for their degree plans. The degree audit normally provides an accurate statement of requirements, but the student is responsible for knowing the requirements for the degree as stated in a catalog under which he or she is entitled to graduate and for registering to fulfill these requirements. Prior to graduation, a DARS degree plan verification form must be signed by the advisor and submitted to the Registrar's Office.

Choosing a Major

After students complete 30 credit hours, they must select a major and degree plan in order to choose the appropriate courses for the degree. No diploma can be granted without a degree plan, as shown on the DARS Undergraduate Degree Plan Verification form available online in the forms section of the Registrar's Office website. Students should meet with their major advisors either one year prior to anticipated graduation or when they have completed 90 credit hours to run a DARS audit, review their remaining graduation requirements, complete any needed substitution forms, complete the verification form, and submit the form with required signatures to the Registrar's Office. Students should keep a copy of the degree audit and carefully complete the remaining requirements in order to graduate on time. Another DARS audit should be run at the beginning of the final semester to assure that all degree requirements have either been met or are in progress. If documentation that the requirements have been completed is not submitted to the Registrar's Office, the diploma cannot be granted.

To change a major, a student must submit the appropriate form to the Registrar.

Student Success Course

Enrolling in UNIV 1011, Contemporary Learning in Higher Education, enables students to identify their individual learning styles and to develop the skills necessary to learn and succeed in their academic programs. The course emphasizes effective integration of learning style with academic skills, personal management and resource utilization. This course is beneficial to all students who are interested in maximizing their academic success, and is required for all students with provisional admission. Also, some sections of the course have been set aside for special populations such as NET learning community participants. For more information, contact the Office of Undergraduate Studies at (940) 898-2367 or www.twu.edu/aac/.

Planning for Tuition Rebate

Students who wish to participate in the Tuition Rebate Plan must attempt no more than three hours in excess of the minimum number of semester credit hours required to complete their degree. The minimum total includes transfer credit, repeated credits, withdrawals, and credit earned by examination. Students who enroll with well-defined interests who want to complete their undergraduate study within the three-attempted-hour limit are eligible for a rebate of up to \$1,000. Specific information and the required agreement form are available from the Registrar's Office and website (www.twu.edu/Registrar/tuition-rebate-plan.asp). The deadline to submit this form to the Registrar's office is the same deadline as the Application for Graduation.

ACADEMIC TESTING

Credit by Examination

Credit by Examination includes Advanced Placement (AP) tests, College Level Examination Program (CLEP) tests, and International Baccalaureate (IB) diploma programs. For information on credit by examination and TWU course equivalencies for exams, see the Admissions section of this catalog or at www.twu.edu/admissions/credit-by-examination.asp.

Texas Success Initiative (TSI)

By Texas law, all undergraduate students enrolling in Texas public colleges and universities must take an approved TSI test to ensure their academic readiness for college-level course work. All undergraduate students enrolling at Texas Woman's University who are not otherwise exempt must attempt a TSI approved test prior to enrolling for classes. TSI approved tests include ACCUPLACER, ASSET, COMPASS, and THEA. The ACCUPLACER test is offered regularly at TWU for TSI; see the Academic Advising webpage for the schedule of tests (www.twu.edu/aac/tests.asp).

Transfer students from out of state or Texas private institutions may be eligible to use transferred courses to satisfy TSI requirements. A student must have earned a satisfactory course grade in each of the three skill areas: math, reading, and writing. If not, the student must be tested for the remaining skill area(s) and must comply with all other TSI requirements.

Students who have not met one or more standards of readiness for freshman work will meet individually with an academic advisor to determine an appropriate developmental education plan. The advisor may suggest enrollment in a developmental course (MATH 1113, 1123; ENG 1003; READ 1003). Once a student has successfully completed the recommended developmental coursework or repeated an assessment test, the student proceeds to freshman coursework. Students who have not met freshman readiness standards will experience a registration block/hold until they meet those standards.

Placement Testing for New Students

University placement tests in English, math, and science are used to enroll new students in the core courses for which they are best prepared. When needed, students may be placed in developmental courses to prepare them for success in core courses. Placement tests are offered at new student orientations and regularly throughout the year. Exemption from placement testing in math and English may be granted when scores on the SAT, ACT, TAKS, or TSI indicate high probability of success in core courses. Science placement testing is determined by majors that require it.

NOTE: Texas Woman's University may require higher passing scores than state TSI minimum levels for participation in designated core curriculum courses. See www.twu.edu/aac for details.

For details concerning placement tests, minimum standards, and individual exemptions, students should visit the following website: www.twu.edu/aac/. For specific test information, students may call these departments: ENGLISH – (940) 898-2341; MATH – (940) 898-2166; and SCIENCE – (940) 898-2568.

Global Perspectives Graduation Requirement

Living in an interconnected global society requires an appreciation of the complexity and interdependency of world events and issues. Undergraduate education at TWU aims to broaden students' perspectives, expand the boundaries of their conversations, and provide them opportunities to recognize and understand other worldviews. To meet this goal, all undergraduates who enroll at TWU must complete a global perspectives requirement. A global perspective refers to skills, knowledge, and attitudes in areas such as global dynamics, non-western worldviews, international systems and events, and global cultures. To meet this requirement, students may either complete six credit hours of courses that have been approved for their global perspective, complete a major in which the global perspective competencies are integrated across the curriculum and is approved for global perspectives designation, or complete global perspectives approved courses in international study or independent study. These methods of achieving global perspectives may be combined when appropriate, and students will be encouraged to pursue as many opportunities as their degree programs allow. Courses approved for global perspectives are listed on the Academic Affairs website, and may be identified online in the Course Search through Webadvisor.

CORE CURRICULUM REQUIREMENT

All Texas undergraduate students in public higher education are required to complete a state-approved core curriculum. When the TWU core curriculum changes, students enrolled at TWU before the change should complete the core in place when they began enrolling at TWU. (The prior core is archived in the Academic Affairs website). The TWU core curriculum described below applies to students who enroll for the first time at TWU in fall 2009 or reenter after more than two years. This core differs from prior core curricula. For transfer of core curriculum courses, see Transfer of Credits section below.

Undergraduate students are required to complete the core curriculum. TWU reserves the right to change core curriculum within boundaries of Texas Core requirements. The core curriculum described here applies to students entering in 2011 or later. Students entering after that time should contact advisers or Academic Affairs website for updates to the TWU core curriculum.

The TWU Core Curriculum is a general education program designed to:

1. Promote students' mastery of basic intellectual competencies essential to the learning process in any discipline- reading, writing, oral communication, critical thinking, and computer literacy;
2. Develop knowledge of various contrasting views of human experience in the world and a breadth of vision against which students can establish and reflect on their own goals and values;
3. Enable students to analyze diverse social institutions, cultural norms, and practices for their impact on our society and on the status and roles of women;
4. Develop a quantitatively literate college graduate who is able to apply basic mathematical tools in the solution of real-world problems;

TWU Core Curriculum Requirements

To ensure selection of the appropriate courses to complete the TWU core and their majors, students should consult with the degree requirements in their majors. Each department, school, and college specifies its own requirements for a major and minor in its section of the catalog and on its website.

A course taken for core credit in the department of the student's major cannot be counted in the hours applied to the major. In addition, departments may specify which core courses may be taken by their majors and may specify that a course taken for core credit is a prerequisite for a course that gives credit in the major. If a course in a student's major field is also approved for core credit, the student may elect to take the course either for core credit or for credit toward the major, provided the department of the student's major approves.

Following state guidelines, non-core courses cannot be substituted for core courses. Equivalency with core courses may be established by the advisor with core course evaluation through the Office of Undergraduate Studies.

Students pursuing a degree program that requires transfer to TWU centers in Dallas or Houston should take particular care to complete all lower-division core requirements in a timely fashion.

TWU Core Curriculum

State Core Area	Required Hours
Communication – Composition	6
Mathematics	3
Science	6-8
Humanities	3
Visual-Performing Arts	3
U.S. History*	6
Government*	6
Social Sciences	3
Institutional Option: Multicultural Women's Studies and MATH 1013 Financial and Quantitative Literacy	6
Core Competencies (oral communication and computer literacy)	
TOTAL	42 (Minimum)

*Courses for these requirements are state mandated.

Required Core Competencies

The core curriculum includes basic intellectual competencies inherent in core courses – reading, writing, oral communication, critical thinking, and computer literacy. To assure that each student develops basic intellectual competencies of **computer literacy** and **oral communication**, Texas Woman's University requires that each student

- (1) pass a designated computer science course or competency examination in computer literacy, and
- (2) pass a designated speech course or document successful completion of two or more evaluated oral presentations in approved courses.

Approved courses for the TWU core curriculum described above are listed in the TWU website within the Academic Affairs section.

2011 – 2013 TWU CORE CURRICULUM COURSES

(Additional courses may be added; check the Academic Affairs website for most current list.)

NOTE: Non-core courses may not be substituted for core courses by rule of the Texas Higher Education Coordinating Board.

I. Communication (10)		(2 courses required)	
	TWU Course		TCCNS
	ENG 1013	Composition I	ENGL 1301
	ENG 1023	Composition II	ENGL 1302
II. Mathematics (20)		(1 course required)	
	TWU Course		TCCNS
	MATH 1023	Introduction to Mathematics II	MATH 1333
	MATH 1303	Elementary Analysis I	MATH 1314
	MATH 1313	Elementary Analysis II	MATH 1316
	MATH 1703	Elementary Statistics I	MATH 1342
	MATH 1713	Elementary Statistics II	MATH 2342
	MATH 2014	Calculus I	MATH 2413
III. Natural Sciences (30)		(2 courses [6 credits] required plus lab corequisites)	
	TWU Course		TCCNS
	BACT 1001	Microbiology Lab	BIOL 2120
	BACT 1003	Microbiology	BIOL 2320
	BIOL 1001	Biology for the 21st Century Lab	
	BIOL 1003	Biology for the 21st Century	
	BIOL 1011	Human Biology Lab	
	BIOL 1012	Human Biology	
	BIOL 1021	Environmental Biology Lab	BIOL 2106
	BIOL 1022	Environmental Biology	BIOL 2206
	BIOL 1111	Principles of Biology Lab	BIOL 1106
	BIOL 1113	Principles of Biology	BIOL 1306
	BIOL 1121	Principles of Biology Lab II	BIOL 1107
	BIOL 1123	Principles of Biology II	BIOL 1307
	CHEM 1011	Introductory Chemistry Lab	CHEM 1105
	CHEM 1013	Introductory Chemistry	CHEM 1305
	CHEM 1021	Intro to Organic and Physiol. Chem. Lab	CHEM 1107
	CHEM 1023	Intro to Organic & Physiological Chem.	CHEM 1307
	CHEM 1111	Chemical Principles Lab I	CHEM 1111
	CHEM 1113	Chemical Principles I	CHEM 1311
	CHEM 1121	Chemical Principles Lab II	CHEM 1112
	CHEM 1123	Chemical Principles II	CHEM 1312
	PHYS 1131	Principles of Physics Lab	PHYS 1101
	PHYS 1133	Principles of Physics	PHYS 1301
	PHYS 1141	Principles of Physics Lab II	PHYS 1102
	PHYS 1143	Principles of Physics II	PHYS 1302
	PHYS 2151	General Physics Lab I	PHYS 2125
	PHYS 2153	General Physics	PHYS 2325
	PHYS 2161	General Physics and Lab II	PHYS 2126
	PHYS 2163	General Physics II	PHYS 2326

SCI	1114	General Physical Science	PHYS 1415
SCI	1123	General Life Sciences	
SCI	2103	Environmental Chemistry: Global Perspectives*	
SCI	2113	Earth Science I	GEOL 1301
SCI	3133	Climate Change: A Human Perspective*	
SCI	3153	History of Modern Science: 21st Century* (GP)	
ZOOL	2011	Human Anatomy & Physiology Lab	BIOL 2101
ZOOL	2013	Human Anatomy & Physio. I	BIOL 2301
ZOOL	2021	Human Anatomy & Physiol. II Lab	BIOL 2102
ZOOL	2023	Human Anatomy & Physiology II	BIOL 2302
ZOOL	2031	Human Anatomy & Physiol. III Lab	
ZOOL	2033	Human Anatomy & Physiology III	
IV Humanities and Visual and Performing Arts			
A. Humanities (40) (1 course required)			
TWU Course			TCCNS
ENG	2013	English Literary Masterpieces	ENGL 2322
ENG	2033	American Literary Masterpieces	ENGL 2326
ENG	2043	World Literary Masterpieces	ENGL 2332
ENG	2123	Poetry	
ENG	2133	Drama*	
ENG	2143	Fiction	
ENG	3143	Modern African-American Drama	
ENG	3153	American Ethnic Literature	
ENG/WS	4393	American Women and Literature	
PHIL	1023	Introduction to Philosophy	PHIL 1301
PHIL	2033	Logic and Critical Thinking	PHIL 2303
PHIL	3053	Ethics	
PHIL	3073	Bioethics	
B. Visual and Performing Arts (50) (1 course required)			
ART	1203	Two-dimensional Color and Design	ARTS 1311
ART	1303	Basic Drawing	ARTS 1316
ART	1503	Introduction to Painting	
ART	1603	Introduction to Photography	ARTS 2356
ART	2503	History of Art: Ancient and Primitive	ARTS 1303
ART	2513	History of Art: Medieval	ARTS 1304
ART	2713	Understanding the Arts: Visual Arts	ARTS 1301
ART	3053	Global Perspectives in Art*	
ART	3343	Women in the Visual Arts	
ART	3503	History of Art: Renaissance	
ART	3513	History of Art: 19th Century	
ART	3823	Ceramics: Hand Building	
ART	3833	Ceramics: Throwing	
DNCE	1011	Introduction to Ballet	DANC 1141
DNCE	1051	Introduction to Modern Dance	DANC 1145
DNCE	1061	Introduction to Jazz Dance	DANC 1148
DNCE	1071	Introduction to Tap Dance	DANC 1111

*Also approved for Global Perspectives requirement.

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DNCE	2393	Understanding the Arts: Dance	DANC 2304
DNCE	3143	World Dance Forms*	DANC 1306
DNCE	3373	The World of the Imagination in Art, Dance, & Film	
DNCE/WS	3383	Dance, Gender and Culture	
DNCE	3393	History of Dance	
DNCE	4383	Performing Arts in American Popular Culture	
DRAM	2493	Understanding The Arts: Drama	
DRAM	3103	Gender, Theater, and Performance	
FL	2013	Mythology*	
MU	2543	History of Rock 'n Roll Music	
MU	2713	Understanding the Arts: Music	MUSI 1306
MU/WS	3703	Women In Music	
MU	3713	Music and World Cultures*	

V. Social and Behavioral Sciences

A. History Objectives (60) (2 courses required)

TWU Course			TCCNS
HIST	1013	History of United States: 1492 to 1865	HIST 1301
HIST	1023	History of United States: 1865 to present	HIST 1302

B. Government Objectives (70) (2 courses required)

GOV	2013	U.S. Government	GOVT 2305
GOV	2023	Texas Government	GOVT 2306

C. Social Sciences Objectives (80) (1 course required)

ECO	1013	Principles of Microeconomics	ECON 2302
ECO	1023	Principles of Macroeconomics	ECON 2301
PSY	1013	Introduction to General Psych.	PSCY 2301
PSY	1603	Developmental Psychology	PSYC 2312
PSY/WS	3733	Psychology of Women	
SOCI	1013	Introduction to Sociology*	SOCI 1301
SOCI	1023	Current Social Problems	SOCI 1306
SOCI/SOWK	3483	Developing Societies*	
SOWK	1403	Introduction to Social Polices and Services	

VI. Institutionally Designated Option (90) (2 courses required - 1 from A and MATH 1013)

A. Multicultural Women's Studies (1 course required)

ART/ WS	3343	Women in the Visual Arts	
BIOL/NURS/WS	3163	Evolving Woman	
BUS/WS	2803	Women in Business	
DNCE/WS	3383	Dance, Gender, and Culture	
DRAM	3103	Gender, Theater, and Performance	
EDUC/ WS	3013	Gender and Education	
GOV/BUS/WS	3393	Law for Women	
HS /WS	3133	Perspectives on Women's Health	
MATH	2053	Women and Minorities in Science, Technology and Engineering	
MU/ WS	3703	Women in Music	
NURS	3143	Multicultural Women's Health	
PHIL / WS	4033	Philosophy of Women & Western Religions	
PSY/WS	3733	Psychology of Women	
SOCI	1413	Culture, Inequality and Self	
SOCI	3093	Racial and Ethnic Groups	
SOCI/WS	3213	Women's Roles	

*Also approved for Global Perspectives requirement.

	WS	2013	Gender and Social Change: An Introduction to Multicultural Women's Studies*	
	WS	3023	U.S. Women of Color	
B.	MATH	1013	Financial and Quantitative Literacy	MATH 1332 (or 1333)
VII. Core Competencies (Required for core completion)				
A. Computer Literacy				
	CSCI	1403	First Course in Computing	COSC 1300 OR COSC 1400
	CSCI	2433	Microcomputer Applications	BCIS 1301 OR COSC 1301 OR COSC 1401
	CSCI	3002	Advanced Computing Technology	
Note: Qualified students may be able to establish computer competency through an exam administered in the Math and Technology Success Center.				
B. Oral Communication				
	SPCH	1013	Oral Communication	SPCH 1311
	BUS	3513	Professional Presentation Strategies	
	DRAM	3493	Theater Speech	
For majors only:				
	BIOL	4681	Biology Seminar (BIOL majors only)	
	FS	4933	Practicum in Family Sciences (FS majors only)	
	FT	2403	Production Techniques (FT majors only)	
	FT	4033	Fashion Portfolio Development (FT majors only)	
	FT	4213	Seasonal Collections (FT majors only)	
	HS	2013	Health Communication (HS majors only)	
	KINS	1573/1583	Foundation of Assessment In Kinesiology (KINS majors)	
	MU	2533	Music Theory IV (MU majors)	
	MU	2543	History of Rock 'n Roll (MU majors only)	
	MU	3323	History of Music II (MU majors)	
	NURS	3005	Concepts and Clinical Competencies (NURS majors only)	
	NURS	4614	Community Health Competencies (for nursing majors only)	
	OT	4033	Analysis of Persons, Tools & Occupation (OT majors only)	
	READ	4453	Reading Assessment & Instruction EC-6 (EDUC majors only)	
	READ	4563	Reading Assessment & Instruction 4-8 (EDUC majors only)	

NOTE: See TWU core curriculum website for community college courses for these competencies.

*Also approved for Global Perspectives requirement.

Natural Science Requirements

The TWU core curriculum requires a minimum of 6 credit hours in natural sciences, and there is no stated requirement for a science lab. However, many majors do require sciences with laboratory components. Students must follow the requirements of their majors in selecting science courses and labs.

When a science course has a laboratory as a co-requisite, students must enroll in both the lecture and the lab course simultaneously. Students who withdraw from a lecture course, must also withdraw from the co-requisite lab course. Students who pass a 3 credit hour lecture course, have met 3 credit hours of the natural science requirement for the core curriculum. However, if they withdraw from or fail the lab course, they have not met a departmental/ major requirement for sciences with a lab. The laboratory course may be repeated separately from the lecture course if the lecture course was passed. Likewise, the lecture course may be repeated separately if the lab course was passed.

Curriculum for Undeclared Majors

First-time-in-college students who have not declared a major should take the courses in the required core curriculum. Students may delay declaring a major until they have completed 30 credit hours; however, some majors require students to select specific courses among the approved core courses. When students have decided upon a major, they must submit a Change of Undergraduate Academic Program form to the Registrar's Office.

TRANSFER OF CREDITS

Current Students Transferring Credits to TWU

Currently enrolled TWU students taking one semester of coursework at another higher education institution and transferring the credit(s) into their current TWU degree plan, should request an official transcript from the other higher education institution be sent directly to the Office of Student Records for evaluation and TWU transcript update.

Core Curriculum Transfer Policy

Texas requires a minimum of 42 and allows a maximum of 48 credit hours for the core curriculum; however, these limits can be changed by the Texas Legislature. Within state limits and the categories of study in the core, each institution is allowed to set the total hours required and the courses required. As indicated above, TWU has a 42 hour core curriculum. In order to facilitate the transfer of core courses into the University, TWU observes the rules from the Texas Higher Education Coordinating Board Core Curriculum Transfer and Field of Study regulations.

Core-complete Transfer Students

TWU follows the state rule which indicates that:

If a student successfully completes the 42 semester credit hour core curriculum at an institution of higher education, that block of courses may be transferred to any other institution of higher education and must be substituted for the receiving institution's core curriculum.

Therefore, while TWU has a core of 42 hours, students coming into the university with a completed 42 hour core cannot be required to take additional core classes. The Transfer Admissions website at TWU lists the core requirements of several Texas community colleges for advisers' and students' use. Transfer transcripts from community colleges must include the notation "Core Complete" to ensure credit for core completion or a letter from the Registrar with the same message. Advisers may also document core completion through transcript analysis.

The following rule will be observed for transfer students who have completed a 42 hour core at a Texas public institution:

A student shall receive academic credit for each of the courses transferred and may not be required to take additional core curriculum courses at the receiving institution unless the board has approved a larger core curriculum at that institution.

Therefore students entering with a 42 hour core might be required to take courses for the hours above their 42 hour core only if TWU increases required core hours. To assist students and advisers in determining course equivalencies between TWU and other Texas institutions, a list of equivalents for the Texas common course numbers (TCCNS Crosswalk) appears at the end of this catalog. For lists of core curricula at other institutions, see the Texas General Education Core Webcenter (<http://statecore.its.txstate.edu>).

Core-Incomplete Transfer Students

To assist transfer students who have not completed the core at another institution, TWU follows state rules below to assure that students receive credit for all core courses they bring into the University. The state core regulation states that:

A student who transfers from one institution to another without completing the core curriculum shall receive academic credit within the core curriculum of the receiving institution for each of the courses that the student has successfully completed in the core curriculum of the sending institution. Following receipt of credit for these courses, the student may be required to satisfy the remaining course requirements in the core curriculum of the receiving institution.

As this rule indicates, students who have not completed the state core at another institution are required to complete the TWU core in the state areas that the student did not complete (communication, mathematics, arts, humanities, social & behavioral sciences, institutional option). The TWU Transfer Admissions website lists the core requirements of several Texas community colleges and their TWU equivalencies for advisers' and students' use: www.twu.edu/admissions/transfer/asp.

Concurrently Enrolled Students

TWU follows state policy which states that, “A student concurrently enrolled at more than one institution of higher education shall follow the core curriculum requirements in effect for the institution at which the student is classified as a degree-seeking student.” Therefore, if a student is a degree-seeking student at TWU and takes core courses at other institutions, the student must be sure that courses taken elsewhere are accepted equivalencies for TWU core courses.

Transfer Agreements

TWU develops transfer agreements with community colleges and publishes the agreements on the TWU Transfer Admissions website and in Transfer Handbooks. These include community college equivalencies for TWU Core Curriculum, individual course equivalencies, and 2+2 academic program-to-program articulation plans. Following the degree program plans in TWU Transfer Handbooks assures that students who complete the state’s core curriculum at community colleges with which TWU has transfer agreements and whose transcripts are labeled “Core Complete,” will not need to take any additional core curriculum courses at TWU. For more information including course equivalencies and agreements, visit the Admissions office or website at www.twu.edu/admissions/transfer/asp.

Transfer of Credits

Texas Woman’s University reserves the right to re-evaluate the transferability of specific courses offered by other institutions, and to amend the University course and/or program offerings without prior notice.

Students may transfer a maximum of 84 semester credit hours from community and/or junior colleges. If a student has taken more than 84 hours, a TWU transcript evaluator will post only 84 hours. Substitutions and/or changes may be made after consultation with an academic advisor. There is no maximum number of semester credit hours transferred from four-year institutions; however, students must observe the TWU residency requirement for graduation. Also, there is a penalty for excess hours taken above the required number of hours for a degree.

TWU’s Transfer Equivalency Guides show courses that are transferable to TWU as direct course equivalencies. Courses that transfer but do not have direct TWU equivalencies are posted to the transcript with the course heading, a generic course number, and the title of the course, such as BIOL *2000 Principles of Biology. A TWU advisor will determine how these courses may be applied to a degree plan. Core courses and global perspectives equivalencies will be determined by the Office of Undergraduate Studies.

Courses not listed on the Transfer Equivalency Guides may be transferable to TWU, but are not guaranteed to transfer.

Courses will transfer to TWU at the level at which these courses were classified by the institution granting the credit, unless specified otherwise in the institutional transfer equivalency guides. Community college courses will count as lower-level courses, unless otherwise specified.

If a transfer course has been taken more than once at another institution, TWU will accept the highest grade awarded to the student for that course.

College preparatory course work in developmental math, reading, and writing is not transferable and does not satisfy college-level requirements at TWU. Successful completion of developmental courses may be used to establish readiness for college-level courses.

Courses taken at institutions not holding accreditation will be evaluated independently and on a course-by-course basis.

Workforce Course Transfer

Courses defined as workforce education courses (WECM) are not transferrable to a B.S. or B.A. degree program unless specifically approved by the appropriate academic department. However, the WECM courses may be transferred as a block to specific degrees such as the B.A.S. (Bachelor of Applied Science) degrees by approval of the appropriate department. Students who enter a B.A.S. program may change to a B.S. or B.A. program by re-application to the university, but workforce credits will not be applicable and will be removed from the TWU transcript.

TWU follows the recommendations of the American Council on Education's (ACE) Guide to the Evaluation of Education Experiences in the Armed Services.

TWU does not accept life or work experience as college credit.

Upon acceptance to TWU, students may view their transfer work and unofficial transcript through their Pioneer Portal account. Students should also run a DARS degree audit through their portal account.

*The state-approved Field of Study Curricula include Business, Computer Science, Criminal Justice, Early Childhood, Engineering, 4-8 Teacher Certification, Music, Nursing and the Communication plan. These and others as they are approved can be found on the Texas Higher Educating Board website (www.theccb.state.tx.us/).

The University provides support services for transfer students equivalent to those provided to non-transfer students regularly enrolled at the institutions, including an orientation program for transfer students equivalent to that provided for entering freshman enrollees.

Transfer Dispute Policy

Matters of transfer dispute are managed by the Office of Undergraduate Studies. Texas Woman's University observes the following state regulation:

5.393 Resolution of Transfer Disputes for Lower-Division Courses.

(a) The following procedures shall be followed by public institutions of higher education in the resolution of credit transfer disputes involving lower-division courses:

1. If an institution of higher education does not accept course credit earned by a student at another institution of higher education, the receiving institution shall give written notice to the student and to the sending institution that transfer of the course credit is denied.

2. The two institutions and the student shall attempt to resolve the transfer of the course credit in accordance with Board rules and/or guidelines.

3. If the transfer dispute is not resolved to the satisfaction of the student or the sending institution within 45 days after the date the student received written notice of denial, the institution whose credit is denied for transfer shall notify the Commissioner of the denial.

(b) The Commissioner of Higher Education or the Commissioner's designee shall make the final determination about the dispute concerning the transfer of course credit and give written notice of the determination to the involved student and institutions.

ACADEMIC TERMS DEFINED

Academic Classification of Students

According to the number and type of semester credit hours completed, students are classified as freshmen, sophomores, juniors, seniors, post-baccalaureate, master's, and doctoral students. A full-time undergraduate student is one carrying twelve semester hours or more in fall or spring; six semester hours in Summer Session I or II; twelve semester hours in Summer Session III.

When a student transfers from another college or university, classification is determined by the number of hours accepted for transfer.

FRESHMAN: has completed 0-29 semester hours.

SOPHOMORE: has completed 30-59 semester hours.

JUNIOR: has completed 60-89 semester hours.

SENIOR: has completed 90 or more semester hours but who has not graduated.

POST-BACCALAUREATE: has earned the baccalaureate degree and is taking only undergraduate courses. Postbaccalaureate status prevents the enrollment in any graduate course and under no circumstances will postbaccalaureate work be counted as graduate work.

MASTER'S DEGREE STUDENT: has earned the baccalaureate degree and has been accepted in a master's level program.

DOCTORAL STUDENT: holds the master's degree or its equivalent and is seeking the doctoral degree.

Academic Integrity

The University has instituted an Academic Integrity Pledge, which requires students to acknowledge, on all graded assignments, that they have neither given nor received unauthorized assistance on the assignments.

Academic Major

An academic major is an approved group of courses leading to a bachelor's degree in an academic discipline. All groups of courses leading to degrees assume four or more years of study. Each group includes a major subject, consisting of 30 or more hours, one-half of which must be at the 3000 or 4000 level. The major subjects are listed in the chart at the beginning of the catalog and under the departmental sections of this catalog. A minimum of a 2.0 grade point average (GPA) must be maintained in major courses; a higher GPA may be required by the department. Half of the upper level courses planned for the major must be taken at TWU (residency requirement). Degree plans list all requirements for the majors. See websites for academic programs and/or Undergraduate Studies website.

Academic Minor

An academic minor is an approved group of courses or number of courses required for focused study in an academic discipline. A minor includes a minimum of 6 credit hours at the upper level. The academic minor is not a University-wide requirement. Academic units may establish or abolish a minor requirement for their students. The major and minor subjects must be chosen from separate departments except in the Departments of Visual Arts; Biology; Business and Economics; Communication Sciences and Disorders; History and Government; English, Speech, and Foreign Languages; Fashion; Mathematics and Computer Science; and Sociology and Social Work. Degree plans list requirements for the minors; see websites for academic programs. Half of the upper level courses planned for a minor must be taken at TWU (residency requirement). Interdisciplinary minors are listed below in this section. See degree plans and websites for academic programs.

Course Numbers

Each course offered by the University is assigned a four-digit number. The first digit indicates the level (year) at which the course is offered; the fourth digit reflects the number of semester hours of credit assigned to the course. In indicating the level or year of the course, 1 is used for freshman, 2 for sophomore, 3 for junior, 4 for senior, and 5 and 6 for graduate.

For example, the course English 1013 is a freshman-level course (first digit) which carries three semester hours' credit (fourth digit). The two middle digits (second and third) simply identify it as a specific course in the Department of English, Speech, and Foreign Languages. The number in parenthesis to the right of the TWU course number and long title is the course number assigned for the Texas Common Course Numbering System (TCCNS), a designation used only for undergraduate courses.

Double Major

In order to avoid accumulating excess credit hours for which there is a higher tuition, students should notify the Registrar's Office and the Office of Undergraduate Studies of the total number of hours they will be completing for both majors.

Intellectual Property Rights

The term “intellectual property” is broadly defined to include technical innovations, inventions, and discoveries, as well as writings and other information in various forms including computer software. Ownership of intellectual property is generally granted to the faculty, staff, or student who created the work although there are exceptions. The complete TWU policy regarding intellectual property rights, which applies to faculty, staff, and students, can be found in the Board of Regents policy manual located on the TWU website at: <http://www.twu.edu/regents/intellectual-property-part-1-introduction.asp>

Texas Common Course Numbering System (TCCNS)

The Texas Common Course Numbering System is designed to aid students in the transfer of freshman and sophomore academic credit courses identified by institutions that are members of the TCCNS.

The common course number has a standardized four-letter prefix followed by a four-digit number. The four-letter prefix identifies the subject area. For example, ENGL represents English courses, while COSC represents computer science courses. The four-digit number identifies specific courses within the subject area. TCCNS numbers appear following TWU course numbers when applicable in this catalog and are listed at the end of this catalog.

Each digit in the four-digit sequence gives additional information about the course. The first digit identifies the course as either freshman level (1) or sophomore level (2). The second digit identifies the number of credit hours students earn upon completing the course. Most often this digit will be a 1, 2, 3, or 4. The final two digits serve to establish the sequence in which courses are generally taken.

For more information, see the Transfer Admissions website:
www.twu.edu/admissions/transfer.asp.

ACADEMIC STANDARDS

Academic Good Standing

Undergraduate students who meet or exceed the minimum academic standards specified for their classification are considered to be in academic good standing at the University. The academic standing of undergraduate students is determined by the cumulative grade point average. It is determined at the close of the fall, spring, and summer semesters. The total number of hours attempted at Texas Woman’s University and all hours included in transfer from other institutions of higher education will be included in determining the cumulative grade point average. The minimum cumulative grade point average required for students to remain in good academic standing is outlined below.

Classification (based on total number of hours earned at TWU and in transfer)	Minimum Cumulative Grade Point Average
0-29 credit hours	1.8
30 and above credit hours	2.0

Academic Dean's List

Based on grade point average of 3.5 in a fall or spring semester, undergraduate students who complete at least 12 graded credit hours (excluding courses with pass/fail) are eligible for the Dean's List in recognition of their excellence in academic work. Students are notified of this honor by their Dean.

Graduation Honors Recognition

Graduating seniors whose cumulative grade point average (GPA) reflects excellent scholarship are awarded their degree cum laude, magna cum laude, or summa cum laude. A minimum of 30 semester credit hours must be earned at TWU before the final semester to qualify for this recognition. The cumulative GPA ranges for these graduation honors designations are listed below.

Summa Cum Laude	3.900 and above
Magna Cum Laude	3.700 -3.899
Cum Laude	3.500 - 3.699

Graduation honors recognition at the commencement ceremony is based on the cumulative GPA at the end of the semester prior to the final semester. Graduation honors recognition as recorded on the diploma or posted to the official transcript is based on the cumulative GPA at the end of the final semester.

Grades and Grade Points

The number of grade points given for each grade made by a student is determined as follows:

- Grade A: 4 times as many grade points as credit hours.
- Grade B: 3 times as many grade points as credit hours.
- Grade C: 2 times as many grade points as credit hours.
- Grade D: 1 time as many grade points as credit hours.
- Grade F: No grade points. Credit hours are counted; thus the grade is punitive.
- Grade W: No grade points.
- Grade WF: No grade points. Credit hours are counted; thus the grade is punitive.
- Grade I: No grade points.
- Grade CR: Credit for hours earned, but no grade points.
- Grade PR: No hours or grade points.
- Grade X: No grade points, non-punitive.
- Grade DA: Developmental A, no grade points.
- Grade DB: Developmental B, no grade points.
- Grade DC: Developmental C, no grade points.
- Grade DF: Developmental F, no grade points.

Grades are interpreted as: A, Excellent; B, Good; C, Average; D, Inferior but passing; F, Failure; CR, Credit; PR, In Progress (normally used for thesis, professional paper, or dissertation); I, Incomplete; W, Withdrew from the course without penalty; WF, Withdrew from the course while failing; X, no credit due to tuition

deficiency. The letters “REP” following the grade indicate repeated course work. The higher grade is counted for repeated coursework.

Incomplete (I) grade is appropriate only when a student has passing grades in 2/3 of assigned work, but, because of extenuating circumstances, cannot complete all of the course work by the end of the semester/term. Extenuating circumstances include

1. Incapacitating illness which prevents a student from attending classes;
2. A death in the immediate family;
3. Change in work schedule as required by an employer; or
4. Other emergencies deemed appropriate by the instructor.

A grade of Incomplete should not be requested nor given for lack of completion of work because of procrastination or dissatisfaction with the grade earned.

Under the conditions above, the student may petition the instructor for time beyond the end of the semester/term to finish the course work. The instructor, the student, and the department chair (or equivalent) of the academic department in which the course is offered must fill out and sign the form “Application for Grade of Incomplete” which is available in the Office of the Registrar or at www.twu.edu/Registrar/forms. If laboratory or clinical work remains to be completed, the department or program must certify that the student can successfully complete such work by the assigned completion dates.

Specific arrangements to remove the grade of Incomplete must be made between the instructor and the student. The instructor will also specify that, if the work is not completed by the assigned time, a grade of B, C, D, or F will replace the Incomplete on the student’s transcript. If the student completes the required work by the assigned completion date, the instructor will submit the new grade to the Office of the Registrar. The maximum time allowed to finish the course work is one calendar year. In most instances, the work to be completed should be finished within the first several weeks following the end of the semester/term in which the Incomplete was given.

NOTE: No student may graduate with a grade of Incomplete even if the “I” is in a course unrelated to the degree plan.

Incomplete work cannot be finished by repeating the class. If such an option is preferred, the student should accept the grade earned and re-enroll in the course in the expectation of earning a better grade. The higher grade will be calculated in the GPA. Any exceptions to these regulations which describe the use of the grade of Incomplete require the approval of the instructor, the department chair (or equivalent), and the dean or director of the academic unit in which the course was offered.

Undergraduate Limit on Dropped Courses

Under section 51.907 of the Texas Education Code, “an institution of higher education may not permit a student to drop more than six courses, including any course a transfer student has dropped at another institution of higher education.” This statute was enacted by the State of Texas in spring 2007 and applies to undergraduate students who enroll in a public institution of higher education as first-time freshmen in fall 2007 or later. Any course that a student drops after the census date is counted toward the six-course limit if “(1) the student was able to drop the course without receiving a grade or incurring an academic penalty; (2) the student’s transcript indicates or will indicate that the student was enrolled in the course; and (3) the student is not dropping the course in order to withdraw from the institution.” For details of this policy, see the webpage of Undergraduate Studies. Undergraduates may drop a course with penalty *before* the census day of each regular semester. However, *after the census date*, anyone enrolling for the first time in Fall 2007 or later (at TWU or any Texas public higher education institution), are allowed only 6 unexcused drops during their undergraduate academic careers. Drops after the census day will count toward the 6-drop limit unless they are supported by timely, appropriate documentation and excused by the university review process. Special drops forms are available in the Registrar’s Office and require the signature of the student, instructor, and academic adviser. This does not apply when students drop all classes for the semester, withdrawing from the university.

Dropping a Course

After the first six weeks, a student who wishes to drop and to receive a grade other than WF must secure a drop form from the student’s advisor, secure the signatures required on the form, and file the form in the Office of the Registrar. The instructor will recommend either a grade of W or a grade of WF on the drop form. Failure to process the drop form by the published deadline will cause the student to receive the grade of F. Students wishing to drop all classes and withdraw from the University should contact the Office of Student Life.

Grade Appeals

University grade appeal procedures shall be followed. Appeals must begin with an appeal to the faculty no later than 10 class days after the grade decision is made. If a student wishes to appeal the decision further, appeals are made in writing beginning with the associate dean, chair, or program director’s level and following department, college, or school procedures for additional levels. Graduate students may appeal to the graduate dean and undergraduate students may appeal to the Office of Undergraduate Studies if grade issues are not resolved at the college level. Appeals at each level must be made in writing no later than 10 class days after the date of the decision of the previous level. The ten days for appeals at each level do not include weekends, holidays, or days between academic sessions. All

grade changes must be made through the Registrar's Office within one year of the original grade assignment.

Course Repetition

When a course is taken more than once, the grade used to compute the student's GPA is the best grade. After attempting a course twice, the student is charged additional tuition for all subsequent enrollments in that course.

Class Attendance

Consistent class attendance is vital to academic success and is expected of all students. Grades are determined by academic performance and instructors may give students written notice that attendance related to specific classroom activities is required and will constitute a specific percentage of students' grades.

Instructors are strongly encouraged to keep a record of student attendance. They should note absences due to documented student illness, serious illness or death in the student's immediate family, official school activity, state-recognized religious holiday, or other verified absences deemed appropriate by the instructor. Students must consult with instructors regarding the completion of make-up work.

Absences do not exempt students from academic requirements. Excessive absences, even if documented, may result in a student failing the course. An incomplete may be granted if the student has a passing grade, but only if the instructor determines that it is feasible for the student to successfully complete remaining assignments after the semester. Pursuant to university policy, such determinations are within the discretion of the instructor.

Academic Probation

Students who fail to maintain academic good standing are placed on academic probation or suspension. Academic standing is determined based on cumulative GPA at the end of the fall, spring, and summer semesters. (Good standing means a GPA of 1.8 for students who have attempted 29 or fewer hours; 2.0 for students with good standing: 30 or more hours). Students previously in academic good standing who fail to achieve the minimum cumulative grade point average for their classification will be placed on academic probation. Students placed on academic probation may enroll any following semester, and should meet with an advisor before registering. If, upon enrolling, they achieve the minimum cumulative grade point average for their classification, they are then returned to academic good standing. If they do not attain that minimum, but they do earn a semester grade point average of at least 2.0 on nine or more hours, they are continued on probation. A student on probation may not apply for graduation.

Academic Suspension

Students previously on academic probation who fail to achieve the minimum cumulative grade point average for their classification or not continued on probation as just described, are placed on academic suspension. For purposes of probation and

suspension, a full summer session (long term or total equivalent short terms) with a minimum of 9 credit hours enrollment will be considered equivalent to fall or spring semesters.

- Students placed on academic suspension for the first time are not allowed to enroll at TWU for the next semester.
- Students placed on academic suspension for the second time are not allowed to enroll at TWU for both of the next two semesters.
- Students placed on academic suspension for the third time are not allowed to enroll at TWU for an indefinite period; usually, that is at least two years from the date of the third suspension.

Financial Aid eligibility is suspended for students on academic suspension.

Undergraduate Student Reinstatement. When the suspension period has expired, students are eligible to re-enroll on academic probation by petitioning the Office of Undergraduate Studies in writing and completing a Suspension Recovery Contract. As part of the Suspension Recovery Contract, the Office of Undergraduate Studies may impose conditions on re-entry students regarding specific courses for enrollment, course load limits, work load limits, etc.

It is not possible for students on academic suspension to shorten the suspension period by submitting work early that has been completed at another institution during the suspension period.

Withdrawal from the University

Any student who finds it necessary to withdraw from all credit classes must formally withdraw through the Office of Student Life on the Denton campus or the Student Life Coordinator on the Dallas or Houston campus. The effective date of withdrawal is the day upon which the completed Request for Withdrawal Form is received from the student and approved by the Student Life Office.

Withdrawals are not permitted after the Thursday of the fifth week before the last day of class for either long sessions, or the Thursday of the week before the last day of class for summer sessions. A student who withdraws on or up to the census day (12th class day of fall or spring, 4th class day of a summer session, or 2nd class day of Maymester) will have no record of course work on the transcript. A student who withdraws after the census day (4th in summer) and before the last day to drop without penalty would receive a grade of “W,” regardless of the reason to withdraw. After the last date to withdraw without penalty, the grade of “WF” is assigned, unless the student withdraws for medical reasons or a “W” is recommended by the instructor.

ACADEMIC RECORDS POLICY

It is the policy of the Texas Woman's University to obtain the written consent of a student before disclosing personally identifiable information from that student's education records other than directory information and information requested for official use.

Definition of Records

Education records are those records, files, documents, and other materials which:

1. Contain information directly related to a student, and
2. Are maintained by an educational agency or institution.

Directory information includes the following information relating to a student: the student's name, address, telephone number, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, schedule of classes, classification, the most recent previous educational agency or institution attended by the student, and other similar information. Directory information will not be disclosed if the student so notifies the Registration Office at the address indicated below in writing prior to the final day of registration:

Texas Woman's University
P.O. Box 425559
Denton, Texas 76204-5559

Access to Student Records

Students may inspect and review their education records upon request and upon completion of a form supplied by the component maintaining the records in question. Access is given to a student within a reasonable period of time, but in no case more than 45 days after the request has been made. An appropriate administrative official or member of the faculty will obtain the record for the student and will be present while the student reviews the record.

Others who may access or obtain educational records may be:

- Other TWU officials;
- Officials of other schools where the student seeks enrollment;
- Certain representatives of the federal government;
- State educational authorities;
- Governmental representatives in connection with financial aid for which a student has applied;
- Organizations conducting studies for or on behalf of educational institutions or agencies for testing purposes, student aid programs, and instructional improvement;

Accrediting organizations;
 Those responsible for ensuring compliance with a judicial order;
 Appropriate parties in a health and/or safety emergency;
 Parents of a dependent student as defined in Section 152 or the Internal Revenue Code of 1954.

Location of Education Records

Education records of the University are contained in the offices of the:

Career Services
 Vice President of Information Services
 Director of Student Financial Aid
 Director of University Health Services
 Dean of Graduate School
 Office of the Registrar
 Office of Student Records
 Provost and Vice President for Academic Affairs
 Vice President for Student Life
 International Education Office

Limits on Right to Review Education Records

Educational records to which students may have access do not include the following:

Financial records and statements of their parents or any information contained therein, without parent's authorization.

Records which are created or maintained by a physician, psychiatrist, psychologist, or other recognized professional or paraprofessional acting in a professional capacity which are created or used only in connection with the provision of treatment for the student and which are held in strict confidence, provided they may be personally reviewed by a physician or other appropriate professional of the student's choice.

Working records, which are the sole possessions of instructional, supervisory, administrative, and educational personnel, provided they are not accessible or revealed to any other person except a substitute.

Confidential letters and/or statements written prior to January 1, 1975, and those written with a documented understanding of confidentiality.

Request to Amend Education Records

A student who believes that information contained in education records is inaccurate or misleading may request that the record(s) be amended. The student should first meet with the administrative or faculty official responsible for the records.

If such a meeting is not sufficient to resolve the difference, the matter should be reviewed by the appropriate Dean. If the differences remain unresolved, the student should submit a written request for a hearing to the appropriate Vice President. The student will be informed well in advance of the date, place, and time of the hearing. Opportunity will be afforded the student to present evidence related to the issue in question. The student may be represented by individuals of her/his choice. A decision in writing will be provided to the student within a reasonable period of time after the conclusion of the hearing. A request to amend a grade, or a hearing to contest the assignment of a grade, is not allowed under this procedure. However, one may contest whether or not the grade was recorded accurately. The procedures indicated above do not apply to placement credentials.

Changing Name and Address Information

To change or correct information in academic records, students should submit the Student Information Changes form available in the Registrar's Office at any TWU campus or at <http://www.twu.edu/registrar/forms.asp>. Also, students may send the corrections to TWU by mail. The student's printed name and student ID number must be included in addition to the information to be changed.

If the change is specifically for name change, an updated copy of the student ID card and Social Security card are required. The basic requirement needed in any of these formats is the student's handwritten signature. Requests should be sent to the following address:

Office of the Registrar
P.O. Box 425559
Denton, Texas 76204-5559
Fax: 940-898-3205

Transcript Requests

Regular office hours are 7:30 a.m. to 6:00 p.m. Monday and Tuesday, and 8 a.m. to 5 p.m., Central Time, Wednesday through Friday. A transcript may be requested only by the student to whom it belongs. Official transcripts can be released only when all previous debts to the university have been paid. No official transcript order can be accepted by phone or e-mail. To order transcripts, a written request containing the following information should be submitted:

Full name printed in block letters and any previous names used at TWU.
Legal signature.
Student ID number.
Birthday.
Dates of attendance and any degrees awarded by TWU.
A check or money order for \$10.00 for each copy requested.
(If the online fax form is used, a credit card may be used.)

If the request is for grades or a degree from the current or just previous semester, the student should state whether the request should be held until that information can be posted before it is mailed. Requests must include the complete address or

addresses with zip codes to which the official transcripts are to be sent. Requests should be sent to:

Transcript Department
Office of the Registrar
P.O. Box 425409
Denton, Texas 76204-5409
Fax: 940-898-3444

Except for peak order times, such as during registration periods and after graduation, most orders will be mailed within 48 hours of when they are received.

Privacy Statement

Texas Woman's University respects student privacy. Certain classes may include interactive components that are recorded and/or transmitted to other sites. Electronic archival of recorded classroom instruction shall remain the sole and complete property of TWU and may be distributed to enrolled students unable to receive instruction due to technical difficulties or extraordinary circumstances. Personal information provided via e-mail, interactive instruction or through other online means will be used only for purposes necessary to serve enrolled students' needs, such as responding to an inquiry, earning academic credit or fulfilling other requests for information. For more information about the privacy statement, please contact the Office of Information Services at 940-898-3980 or through regular mail at:

Information Services
P.O. Box 425797
Denton, Texas 76204-5797

ACADEMIC SUPPORT SERVICES

Disability Support Services

The TWU office of Disability Support Services assists students with disabilities by ensuring equal access to university programs. Students seeking services are required to submit an application and documentation which verifies the functional limitations of their disability (a simple diagnosis is insufficient). Following an intake session with the DSS staff, students are provided with an Academic Adjustment letter that they will use to notify faculty of approved accommodations.

Eligibility for services is dependent upon the nature of the disability and its impact on learning. A person might meet eligibility requirements of other entities (i.e. state rehabilitation agencies, independent school districts, etc.) and yet may not meet eligibility guidelines for the university. Students should apply for services from DSS prior to the semester for which services are sought. Accommodation requests must be received within the first two weeks of a semester (unless the student is still undergoing diagnostic or medical testing) in order to be implemented in a timely manner. Applications are available in the office, CFO 106 or through the

website: www.twu.edu/dss. For additional information, please call (940) 898-3835 (v) or email dss@twu.edu.

Mathematics and Technology Success Center

The TWU Mathematics and Technology Success Center assists students in reaching their educational goals through individual or group tutoring and computer-based programs. Located in MCL 310, this center provides tutoring to TWU students enrolled in any courses with mathematics or technology components, taking the computer literacy exam, or preparing to pass the TSI mathematics requirement. For more information call 940-898-2169.

Science Learning Resource Center

The Science Learning Resource Center (SLRC) offers help to freshman and sophomore students taking courses in biology, chemistry and physics by providing tutoring and a wide variety of self-help audio-visual and computer assisted learning programs. The SLRC is also responsible for administering the Science Placement Tests to students who have not yet taken their introductory biology, chemistry, physics, and zoology courses. The Science Learning Resource Center is located in the Science Building on the Denton campus. For more information about SLRC call 940/898-2568 or visit the SLRC website at www.twu.edu/slrc/.

The Write Site

The Write Site is the university's writing resources center which serves the entire University community through individualized and computer-aided writing and language instruction, special workshops and programs on writing-related topics. Graduate and undergraduate students in every discipline are welcome to make appointments with experienced tutors who can offer assistance with prewriting, organization, documentation, matters of style, and special needs. For appointments by phone: 940-898-2341 or by e-mail to owl@twu.edu.

GRADUATION REQUIREMENTS

Graduation Planning

Degrees are conferred three times each year, at the close of the fall and spring semesters and at the close of summer sessions. Commencement ceremonies are held in May and December in Denton, and in May in Houston.

Degree Plan Deadline. At least one year before the intended semester of graduation any student planning to graduate should submit a DARS Degree Plan Verification Form, signed by their advisor, to the Registrar's Office.

Application Deadlines for Graduation. By the 12th class day (long terms or 4th class day in summer) of the semester of graduation, the student must apply online

through the Pioneer Portal (<https://portal.twu.edu>) by the published deadline. (See University Calendar and Registrar's website for deadlines.) All undergraduate applicants must have earned at least 90 credit hours and be in good academic standing on the application deadline date.

Students are urged to check that their DARS report shows completion or in progress on all requirements prior to applying for graduation. A non-refundable Graduation Application fee of \$25.00 will be charged at the time of application.

Grade Point Requirements

A graduating senior must have at least an overall 2.0 in all work, a 2.0 in TWU coursework, and 2.0 in major, minor, and core courses by the beginning of the intended semester of graduation. A course that has been repeated is counted only once, and the higher grade is counted for repeated coursework in determining grade points accumulated. Transcripts are withheld if the student is indebted to the University.

Credit-by-examination courses will not be considered in computing the grade point average to determine eligibility for graduation. A course in which the student has made a grade of F cannot be repeated by correspondence for credit. The Office of the Registrar keeps an accurate record of the number of credit hours each student has earned.

Residence Requirements

(1) A minimum of 25% of the credit hours must be at TWU. (2) At least one-half of the upper level courses in the major and at least one-half of the upper level courses in the minor must be completed at the University. Correspondence and credit-by-examination courses do not satisfy residence requirements for graduation.

Advanced Hours Requirement

A minimum of 36 advanced hours is required for any baccalaureate degree. An advanced course for a baccalaureate degree is one that is numbered 3000 or 4000.

Summary of University Requirements for the Bachelor's Degree

This catalog is designed to assist the student and academic advisor in planning and scheduling a degree program. Each student should keep in mind, however, that she or he alone is ultimately responsible for understanding and fulfilling all degree requirements. Students are responsible for their own degree plans and for the completion of all requirements for the degrees that they seek.

- Completion of core curriculum with a grade point average of 2.0 or higher
- Completion of Core Competencies (oral communication, computer literacy)
- Completion of six credits for global perspectives requirement.
- Overall grade point average of 2.0 or higher.
- TWU grade point average of 2.0 or higher.
- Major and minor 2.0 grade point average or higher

- No grades of Incomplete on the transcript.
- Successful completion of a minimum of 120 semester credit hours.
- Successful completion of a minimum of 36 advanced hours.
- Successful completion of a major or an approved degree program, verified in DARS.
- Successful completion of residency requirements:
 - 25% of all hours required for the degree at TWU
 - half of major upper level and half of minor upper level courses at TWU
- Successful completion of comprehensive examinations where applicable.
- Successful completion of all departmental, legislative, and University course requirements. See degree plans and web sites for academic programs' requirements.

NOTE: The Bachelor of Arts degree includes completion of a foreign language requirement.

Graduation Requirements

- Successful filing of a DARS Verification form signed by the advisor with the Registrar's Office twelve months prior to the intended graduation semester and submission of course substitution forms.
- Successful filing of a Graduation Application through the Pioneer Portal by the published deadline.

Second Baccalaureate Degree Conferred at the Same Commencement

In departments where the Bachelor of Arts and the Bachelor of Science degrees are given in the same field, a student completing the prescribed courses in one of the majors and presenting a minimum of 135 semester hours, 270 grade points, 42 advanced hours, and all requirements of the second baccalaureate degree may receive both degrees at the same commencement.

When a second baccalaureate degree is desired in one field other than that covered by the first degree, the student must earn a minimum of 30 additional semester hours, including 12 advanced hours in the second field, and must meet all catalog requirements for the second degree. This applies to a student who is earning two baccalaureate degrees simultaneously at TWU, as well as to a returning student who holds a baccalaureate degree from TWU and wishes to earn a second baccalaureate degree in another field or discipline.

NOTE: Double majors do not receive two degrees. See definition of double majors.

Additional Baccalaureate Degree after the Completion of the First Degree

When another baccalaureate degree is desired in one field other than that covered by the first degree, the student must meet all the catalog requirements for the second major. A student who pursues another bachelor's degree must:

- hold a valid bachelor's degree from an accredited college or university,
- complete a minimum of 30 additional semester hours in residence at TWU, including half the major or a minimum of 15 advanced hours,
- complete the state-mandated credits in history and government if they were not completed for the first degree.

Courses taken for prior baccalaureate degrees may be used for the next degree except for the required 30 additional credit hours. These degree requirements apply to students from TWU and other accredited institutions as well as students who wish to earn a baccalaureate degree in another field or discipline.

Senior Registration for Graduate Studies

In the last semester of their undergraduate degree program at TWU, students who are within 12 semester hours of a baccalaureate degree will be permitted to register for courses which may be applied toward meeting the requirement for the master's degree, provided that the total registration does not exceed 16 semester hours and proper application is made to the Dean of the Graduate School before registering for such courses. Students must have filed a degree plan and a Proof of Eligibility form with the Office of the Registrar before enrolling in graduate-level courses.

No work completed by an undergraduate student shall apply to a graduate degree, except for the work completed by seniors as provided for in this section. No work which is regularly a part of an undergraduate program shall apply toward a graduate degree, except for Texas Woman's University seniors who have made special application at the time of registration for graduate credit for certain specific courses to be applied toward a graduate program approved by their major department and by the Dean of the Graduate School.

SPECIAL OPPORTUNITIES AND PROGRAMS

Honors Scholar Program

The TWU Honors Scholar Program exists to provide talented and motivated students with an enriched learning environment. Students accepted into the program and who complete the requisite number of honors courses graduate as “Honors Scholars.” The diplomas and transcripts of these students also bear this designation. Honors Scholars also enjoy social, cultural, and service opportunities through the Athenian Honor Society and are eligible to live in honors housing. Applications for admission to the program are available from the Honors Scholar Program office in room 104 of Stoddart Hall or by calling (940) 898-2337.

Internships (Cooperative Education Program)

The Cooperative Education Program combines classroom study with practical work experience outside the formal academic setting. Many academic programs at TWU provide undergraduate and graduate students the opportunity to participate in such activities. Upon graduation, students will have both a degree and work experience in their chosen fields.

Cooperative Education opportunities provide employment in supervised learning situations in business, industry, government, or service enterprises. Employers select students for a position on the basis of individual merit and qualifications. During the co-op work experience, students work as regular employees while receiving professional supervision by the work supervisor, faculty member, and co-op coordinator.

Admission Requirements for Cooperative Education

To participate in the Cooperative Education program, apply to the Office of Career Services. The Co-op coordinator will assist with the job search. The following qualifications apply:

1. Recommendation of the student’s major or minor academic department.
2. Minimum cumulative grade point average determined by the academic department.
3. Availability to work the number of hours per week specified for course credit.
4. Enrollment as undergraduate or graduate student at TWU.

Work Schedules for Cooperative Education

Cooperative Education students work part-time while enrolled in classes. Students participate in one or more work periods. Each work period is of such duration that it provides sufficient opportunity to gain in-depth experience in an area related to the student’s academic or career goals.

Cooperative work-study arrangements are made between the University and business, industry, or selected institutions appropriate to the particular academic

program. Potential job assignments are developed on the basis of student interests, skills, and degree program. The student will apply the ideas and processes learned in other courses to practical experience under cooperative supervision. Cooperative planning and evaluation are essential elements in the course.

Undergraduate Cooperative Education Courses

4951. Cooperative Education. One hour credit, 8-12 hours of work a week.

4953. Cooperative Education. Three hours credit, 15-20 hours of work a week.

4956. Cooperative Education. Six hours credit, 30-40 hours of work a week.

Academic Credit for Cooperative Education

Academic credit may be given for work in positions related to the student's major or minor area of study. Also, it is possible to receive Cooperative Education credit if the student already is employed and the current position meets the standards of the Cooperative Education program. All qualified Cooperative Education programs must meet the following requirements:

1. A Cooperative Education experience is offered as a credit course by the academic department and under the guidance of a faculty member. A student must register and pay tuition for the appropriate course.
2. The work experience must be of sufficient duration to be a meaningful part of the student's academic program, generally the regular semester schedule.
3. Minimum standards of work performance must be maintained by the university and by the employer. The student's work must be evaluated periodically by the student, the employer and the faculty member. The credit and grade for the course is based on evaluation of the student's performance and assigned by a faculty member in the academic department.

Study Abroad Programs

TWU Study Abroad Programs offers cross-cultural educational experiences, emphasizing visual and performing arts, history, language, nursing, literature and comparative cultures. Faculty-led travel-study programs are available in selected major components throughout the University at the undergraduate and graduate levels. Typically, the programs are offered during the summer session or semester breaks. Texas Woman's University also provides the International Education Fee Scholarship to provide study abroad scholarships for TWU students. For information about faculty-led study programs, contact the International Education Office or the Graduate School.

TWU Study Abroad Programs also provides students opportunities to live and study for an entire fall or spring session in England, Japan, France, Italy, South Africa, Spain, and other countries. Students may earn credits which are applied toward degree programs at Texas Woman's University. For more information, contact the

International Education Office.

Auditing Courses

Permission to audit a course must be obtained after the first day from the instructor of the course, the chair of the department which offers the course, the dean of the school or college, and the Registrar's Office.

- Persons auditing a course will be charged at the same tuition and applicable fee rate as those enrolled for credit, except as indicated below for those over 65.
- The auditor may not participate in the laboratory part of a course or in a studio, practicum, workshop, or activity course.
- Attendance as an auditor may not be made on the basis of a claim for course credit.
- Audited courses are not recorded on the student's permanent record.
- Any persons 65 years of age or older are eligible to enroll in up to six hours of coursework and receive a waiver for tuition to audit classes without charge provided space is available.

Information about auditing may be obtained in the Office of the Registrar.

Office of Lifelong Learning

Continuing Education

Through Continuing Education, TWU provides non-credit, continuing education activities for those seeking professional advancement, licensure renewals and specialized training in such areas as psychology, social work and sociology, technology, health care, education, nutrition and provides TExES Practice tests for prospective teachers. In addition, this office arranges workshops for professionals and special events. Visit the website for more information and program listings: www.twu.edu/ce.

Distance Education Courses and Programs

Students may choose from approximately 700 distance education courses and 29 degree programs from a variety of academic areas. A distance education course is one in which over 50 percent of the instruction is delivered via satellite, compressed video, Internet or other electronic means. All for-credit distance education courses/programs are subject to the same academic standards as those offered on campus.

At TWU, DE courses are delivered predominately online and are classified as:

- Fully Online - delivered 85-100 percent electronically
- Hybrid/Blended - delivered more than 50 percent but less than 85 percent electronically

Most TWU online courses are taught using a web-based software program called Blackboard (online.twu.edu). Students must have access to a computer with Internet capabilities. Some courses require limited on-campus meetings. Contact Distance Education for more information www.twu.edu/de.

Distance Education Limits for International (F-1) Students

No more than the equivalent of one on-line/distance education (DE) class or three credits per session may count towards the “full-course of study” requirement. If the student’s course of study is in a language study program, no text based on-line or distance education classes may be counted toward the full-course of study requirement.

For F-1 students enrolled in classes for credit or classroom hours, no more than the equivalent of one class or three credits per session, term, semester, trimester, or quarter may be counted if taken on-line or through DE in a course that does not require the student’s physical attendance for classes, examination or other purposes integral to completion of the class. An on-line or DE course is a course that is offered principally through the use of television, audio, or computer transmission including open broadcast, closed circuit, cable, microwave, or satellite, audio conferencing, or computer conferencing.

All DE courses/programs are subject to the same academic standards as those offered on campus. At TWU, DE courses are delivered predominately online and are classified as:

- Fully Online - delivered 85-100 percent electronically
- Hybrid/Blended - delivered more than 50 percent but less than 85 percent electronically

If the F-1 student’s course of study is in a language study program, Hybrid DE classes may be considered to count toward classroom hours or credit. The DE provision does not limit the number of DE credits that can be used towards a degree’s requirements, but rather the number of such credits that can be used to satisfy the “full-course of study” requirement.

Pre-Professional Programs

Students may prepare for further study in professions by following recommended curricula for Pre-Medicine, Pre-Dentistry, Pre-Law, and Pre-Engineering.

Pre-Medicine students may participate in the Joint Admission Medical Program (JAMP) which provides scholarships beginning in the sophomore year for students who compete 15 hours during a fall semester with a 3.25 GPA or higher (including no more than 3 hours of AP credit). Participation in this state-wide program provides students with support, scholarships, and guidance toward admission to participating medical schools if all requirements are met. See the Chemistry and Physics Department section of this catalog for details.

Pre-Dentistry students may prepare for later study by following the recommended curricula shown in the Chemistry and Physics Department section of this catalog.

Pre-Law students may prepare for legal studies by following the curricula described in the History and Government section of this catalog.

Pre-Engineering students may participate in the dual degree program in mathematics and engineering offered through the Department of Mathematics and Computer Science in association with the University of North Texas. For details, contact the Department of Mathematics and Computer Science.

Air Force and Army ROTC Programs

Military Science and Aerospace Studies courses are offered at the University of North Texas. Students interested in enrolling in these courses should contact the TWU Registrar.

TWU students may participate in the ROTC programs to prepare for a career as an officer. Active-duty and reserve Air Force and Army personnel provide all classroom instruction and program administration. Textbooks and uniforms for ROTC courses are issued at no cost to the student. Students register for courses through TWU and classes meet at the University of North Texas campus; the TWU Registrar provides registration information for these programs.

The ROTC program is open to male and female students. Freshmen may enroll in the four-year program, and other students with at least two undergraduate or graduate academic years remaining may apply for the two-year program. Deviations from these two programs must be approved by the chair of the division. Students who complete either program with at least a bachelor's degree are awarded commissions as U.S. military officers.

Scholarships are also available to ROTC students. Qualified students may receive full tuition, and in some cases fees, a textbook allowance, and a tax-free subsistence allowance of \$200 a month. Contact the TWU Office of Registrar for more information.

Interdisciplinary Minors

DIGITAL MEDIA MINOR

The Digital Media minor provides TWU students the opportunity to pursue a minor field of study which merges the fields of art, design, and technology. Coursework is offered through the departments of Visual Arts, Computer Science, and English and includes such topics as:

- Digital image, video, and audio capture and editing
- Animation and 3-D imaging
- Media database building
- Web site building

Coursework is chosen in consultation with an advisor who is a faculty member in either Visual Arts, Computer Science or English. More information about the minor and specific courses available may be found on the following departmental web pages:

Visual Arts – www.twu.edu/visual-arts/

Computer Science – www.twu.edu/math-computer-science/

English – www.twu.edu/english-speech-foreign-languages/

ETHNIC STUDIES MINOR

Although an academic minor is not a University-wide requirement, students may choose to declare a minor. A selection of course offerings from a variety of disciplines allows the students to explore cultural and ethnic diversity on different levels, from individual to global, and in different settings. Students wishing to minor in Ethnic Studies should select 18 hours from courses listed below. In

addition, some departments will offer special topics courses that are appropriate for inclusion in the Ethnic Studies minor when approved by the adviser in the Department of Sociology and Social Work.

BUS 3183	Introduction to International Business
EDBE 3033	Language and Culture
EDBE 3643	Foundations in Bilingual Education
ENG 3153	American Ethnic Literature
ENG 4333	Introduction to the Study of World Literature
FT 4083	Global Dress and Adornment
GOVT 3513	Japanese Culture and Politics
HIST 3713	History of Texas
HIST 3763	History of Latin America
SOCI 1413	Culture, Inequality and Self
SOCI 3093	Racial and Ethnic Groups in the United States
SOCI 3183	African Americans in the United States
SOCI 3193	The Mexican American in Contemporary Society
SOCI 3303	Cultural Anthropology
SOCI 3313	Indigenous People in Contemporary Society

GENERAL SCIENCE MINOR

The minor in General Science requires 18 hours, six of which must be advanced. These must be divided among three of the following: biology, chemistry, physics and science courses. If the major is biology or chemistry, the hours must be divided between two of the remaining three.

GLOBAL STUDIES MINOR

Students wishing to minor in Global Studies should select 18 hours from courses listed below. A minimum of six of the required hours must be upper level. In addition, courses must be selected from a minimum of three different disciplines. In addition, some departments will offer special topics courses that are appropriate for inclusion in the Global Studies minor when approved by the advisor in the Department of Sociology and Social Work.

ART 3053	Global Perspectives in Art
BUS 3183	Introduction to International Business
DNCE 3143	World Dance Forms
ELDR 3033	Language and Culture
ENG 2043	World Literary Masterpieces
ENG 2133	Drama
ENG 4333	Introduction to the Study of World Literature
FS 2003	Diversity in Contemporary Families: A Global Perspective
FS 3523	The Care and Education of Children: A Global Perspective
FL 2013	Mythology
FT 3043	Global Production and Trade
FT 4083	Global Dress and Adornment
GOV 3513	Japanese Culture and Politics

GOV 4523	American Foreign Policy
GOV 4613	Comparative Government: Western Europe
GOV 4633	Comparative Government: Africa and Asia
HIST 2013	World Civilizations to 1715
HIST 2023	World Civilizations Since 1715
HIST 3213	History of Law and Justice
HIST 3763	History of Latin America
HIST 4233	Global Issues and Trends
MU 3713	Music and World Cultures
PHIL 2053	Philosophy of Comparative Religions
SCI 2103	Introduction to Environmental Chemistry: Global Perspectives
SCI 3153	History of Modern Science in the 21st Century
SOCI 1013	Introduction to Sociology
SOCI 3083	Population Dynamics
SOCI 3303	Cultural Anthropology
SOCI 3313	Indigenous People in Contemporary Society
SOCI 3483	Developing Societies
WS 2013	Women: Images and Perspectives

WOMEN'S STUDIES MINOR

A minor in Women's Studies is offered for students who wish to engage in multidisciplinary exploration of issues related to women, gender, and social justice. Minors are required to take WS 2013 (Gender and Social Change), WS 3023 (U.S. Women of Colors), WS 4493 (Feminist Theories), and three other Women's Studies courses of their choice. Contact the Department of Women Studies for advising.

Student Life

STUDENT RIGHTS AND RESPONSIBILITIES

Texas Woman's University is a community of scholars in which the ideals of freedom of inquiry, freedom of thought, freedom of expression and freedom of the individual are sustained. TWU is committed to preserving the exercise of any right guaranteed to individuals by the constitution. However, the exercise and preservation of these freedoms and rights require a respect for the rights of all people in the community to enjoy them to the same extent. In a community of learning, willful disruption of the educational process, destruction of property, and interference with the orderly process of the university or with the rights of other members of the university cannot be tolerated.

Students enrolling in Texas Woman's University and registered student organizations assume an obligation to conduct themselves in a manner compatible with the University's function as an educational community. The act of registering for classes or registering as a TWU student organization is considered an explicit acceptance of TWU's regulations as outlined in the most recent issue of the Student Handbook and Planner, the General Catalog, the Graduate Catalog, and other official University publications. To fulfill its functions of imparting and gaining knowledge, TWU retains the authority to maintain order within the university and to exclude those who are disruptive of the educational process or who represent a threat to the community.

Students and student organizations must assume the following responsibilities:

1. The right to an environment in the residence halls, academic buildings, and other areas on campus which will be as conducive as possible to study and serious inquiry;
2. The right to inquire about and to recommend improvements in policies, regulations, and procedures affecting the welfare of students through appropriate channels such as student government, administrative offices and various committees;
3. The right to a fair hearing (procedure described below) when charged with violation of University regulations.

Students and student organizations must assume the following responsibilities:

1. The responsibility for being fully acquainted with published regulations and for complying with these regulations in the interest of an orderly and productive community;

2. The responsibility for respecting the rights and property of other persons in the University community.
3. The responsibility for knowing that each student's conduct reflects not only upon the student but also upon the institution and the members of the community and that conduct must be judged accordingly.
4. Responsibility to help maintain a safe environment by reporting suspicious/concerning/dangerous behavior to university officials.

For further information on student conduct policies please refer to the current Student Handbook and Planner in the print or web edition (www.twu.edu/o-sl/).

University Emails to Students

TWU students enrolled for credit or non-credit classes have a TWU email address for sending announcements, correspondence, and other important messages (including payment deadlines and financial aid information). Messages delivered to the TWU email address will be considered officially delivered.

Academic Dishonesty

Academic integrity is the foundation of the academic community. Because each student has the primary responsibility for being academically honest, students are responsible for reading and understanding all sections in the Student Handbook relating to standards of conduct and academic life. Students who violate University rules on academic dishonesty are subject to disciplinary penalties, including the possibility of failure or removal from a course, disciplinary probation, and/or dismissal from the University. Academic dishonesty includes cheating, plagiarism, collusion, fabrication, falsification, and falsifying academic records, other acts intentionally designed to provide unfair advantage to the student, and/or the attempt to commit such acts. Detailed definitions of these acts are provided in the Student Handbook.

Texas Woman's University makes every effort to preserve the faculty/student relationship. The following procedure has been developed with this relationship in mind. Faculty members should clearly identify course specific standards which interpret University, college, and/or departmental policies related to academic integrity. These explanations should appear in the course syllabus.

In the event of alleged academic dishonesty, the faculty member who discovers evidence or receives reports of academic dishonesty should:

1. Check with the Student Life office to determine if there has been a previous violation of academic dishonesty. If there has been a previous violation, the matter is referred to the Conduct Review Officer in the office of Student Life. If this is an alleged first violation, then the faculty member will arrange to meet with the student(s) accused of the alleged infraction. At this meeting, the faculty member will complete the Academic Dishonesty Report Form which the student will sign with an acknowledgment of acceptance of responsibility.
2. If the student(s) acknowledges the act of academic dishonesty, and the faculty member is satisfied that the incident can be effectively resolved with a grade sanction, the faculty member will assign a reasonable penalty such as:

- Written reprimand
 - Assignment of a 0 on an assignment
 - Assignment of a lower grade on the test/paper/project in question, with an explanation from the instructor
 - Assignment of a grade of F in the course
3. If the faculty member determines that the violation is a severe case, referral may be made to the Conduct Review Committee for action by reporting to the Conduct Review Officer using the Academic Dishonesty Report Form.
 4. If the student denies the allegation of academic dishonesty, if the case is a second violation, OR if the faculty member believes the severity of the incident may warrant a sanction more severe than is available to faculty, the faculty member will forward a written summary (Academic Dishonesty Report Form) of the incident to the Conduct Review Officer, which is usually the Dean of Students. The summary must include relevant evidence. The Student Life Conduct Review Officer will institute disciplinary proceedings listed in the Student Code of Conduct in Chapter 4 of the Student Handbook. In all cases, the disciplinary proceedings will begin with a pre-hearing conference between the Conduct Review Officer and the accused student. During the pre-hearing conference, the accused student(s) will have the opportunity to discuss and review all evidence as well as ask questions about the charges and the options available for resolution. During the pre-hearing conference the student will be presented with the following options:
 - To plead responsible for the charge of academic dishonesty, which indicates that the student does not contest the charge of academic dishonesty, waives all rights to a formal hearing, and accepts a sanction imposed by the Conduct Review Officer; or
 - To request a formal hearing with the Code of Conduct Review Committee.

The formal hearing process is outlined in Chapter 4 of the Student Handbook. Pending the outcome of an investigation that is not resolved at the end of a semester or summer session, the faculty member must assign a grade of NC (no credit) to the student.

The following sanctions may be imposed by the Codes of Conduct Review Committee for academic dishonesty:

- Written reprimand
- Assignment of a 0 on an assignment
- Assignment of a lower grade on the test/paper/project in question, with an explanation from the instructor.
- Assignment of a grade of F in the course.
- Removal from the course with the assignment of a failing grade (WF)
- Disciplinary Probation
- Suspension from the University
- Expulsion from the University

The faculty member may recommend a sanction to the Committee during the hearing process. If the assigned sanction involves an action involving a grade, the

sanction will be communicated to the faculty member who will assign the sanction accordingly. Whether the matter is resolved administratively or through a formal hearing, the student may appeal by delivering a written notice of appeal to the Vice President for Student Life within 72 hours following the receipt of the decision. The decision of the Vice President for Student Life is final.

Student Records

Records of scholastic dishonesty are retained in the Student Life Office and are kept separate from the student's academic record or transcript. Disciplinary records including academic dishonesty may be released to persons outside of the university only with consent of the student, or by exceptions described in the Family Educational Rights and Privacy Act including: 1) other school officials who have been determined to have a legitimate educational interest; 2) federal, state and/or local officials to whom such information is specifically allowed; and/or 3) a court order or subpoena.

UNIVERSITY HOUSING

Residence Halls at the Texas Woman's University Denton campus provide a wide range of choices in student living styles. Each residence hall is centrally air conditioned and offers a variety of facilities for students, including study lounges, living rooms, television lounges, laundry rooms, computer labs, vending machines, room refrigerators, and TV cable hookup. Students can choose a traditional student room with private or community bathrooms. Apartment and suite style living offering efficiency through three bedroom units are also available for students with families, upper class and graduate students. Students are assigned to the halls of their choice to the extent possible. To obtain more information about individual residence hall options log on to the TWU website www.twu.edu/housing/or contact, the Department of University Housing, Texas Woman's University, Box 425380, Denton, Texas 76204-5380, 940-398-3676.

Living Learning Communities

Living Learning Communities (LLC) at Texas Woman's University provide learning opportunities outside of the classroom that strengthen student intellectual and personal growth. Two key communities, Neighbors Educated Together (NET) and First Year Connections (FYC) are centered around an academic or special interest theme and are structured for students to have a high degree of involvement in the program.

Living Learning Communities help students to succeed academically and to build a community of friends, and they provide a way for students to get involved in campus life.

Undergraduate Residency Requirement

The University requires that all full-time, single undergraduates who have not completed 60 credit hours, who are under the age of 21, who are not veterans, and who are not living with parents or legal guardians within commuting distance live in University residence halls.

Room Assignments and Contract

The Housing-Food Services contract guarantees a bed space in a double or triple occupancy room and the apartments contract guarantees a bed space or the lease of an individual apartment, depending on apartment type. Assignments to residence halls are made on a space-available basis based on the date that the application and deposit are received at the Department of University Housing. Private rooms may be requested at any time and will be confirmed if space is available, based on the date that the application was received.

Food Services

Food service is available on the Denton campus in the Student Union at the Garden Room, Chick-Fil-A, Baker's Dozen, and the Underground. A beverage/snack kiosk is available in the CFO. A convenience store is located in the Commons, offering students personal and food products along with prepared late night dining/snack options. A small snack shop is available at the Houston and Dallas Centers. Denton campus resident students are required to purchase one of several meal plans unless they reside in one of the on-campus suites or apartments. Meals are planned to fulfill the basic nutritional requirements of residents; special diet plans also are available. For further information on meal plan options, contact the Food Services Administrator, Department of Food Services, Texas Woman's University, Box 425380, Denton, Texas 76204-5380, 940-898-3565 or log on to the website at www.twu.campusdish.com.

CAREER SERVICES

The Office of Career Services, located on the Denton Campus in the Human Development Building, Suite 200, provides career-planning activities and programs to educate, develop and assist students in successfully meeting the challenges of an ever-changing world of work. Activities and programs include:

- Career Days for meeting employers from government, business, health organizations, school districts and the nonprofit sector about career opportunities.
- Career Counseling assists students with choosing a major and other career and employment concerns.
- Career Exploration Class assists students with exploring careers, selecting a major, and developing lifelong career planning skills (offered in spring semester).
- Cooperative Education Program provides opportunities in major-related work experience while earning academic credit, usually in paid positions (see Special Programs below).
- Part-Time Employment Information for on and off campus part-time employment can be viewed on the Career Services website at www.twu.edu/career-services/students.asp.
- Résumé Critique and Employment Counseling assists students with planning a job search. For more information see www.twu.edu/career-services.

CAMPUS CHILD CARE

The Clubhouse

The Clubhouse is a children's after-school and summer recreation program designed for 5-12 year-old children of TWU students. The Clubhouse is open Monday through Friday from 3 p.m. to 6 p.m. during the fall and spring semesters and 7:30 a.m. to 5:30 p.m. during the summer. Limited after-school pick-up service is available to bring children to the Clubhouse. To obtain more information or apply contact University Housing, Texas Woman's University, Box 425380, Denton, Texas 76204-5380, 940-898-3676; or login to www.twu.edu/housing/clubhouse/asp.

STUDENT ACTIVITIES

New Student Orientation

Participation in an orientation program is required for all new students with less than 13 credit hours in order to facilitate a smooth transition to university life. The purpose of the orientation experience is to inform students of the academic, social opportunities, and student services available to them and to remind them that they have the support and encouragement of the faculty, staff, and administration in making decisions that affect their education. The orientation programs include sessions for transfer students, freshmen, international students, and graduate students. Meetings with faculty in the academic departments and with Student Life professional staff are part of the program. Academic advising and registration are key components in the orientation program. New students also participate in Pioneer Camp, which is the second part of the orientation program and occurs immediately prior to the fall semester. Pioneer Camp further assists students with their transition to college life and provides them with an opportunity to meet new friends and become involved in the university community. For more information, contact the Center for Student Development at 940.898.3626, the orientation web site at www.twu.edu/orientation.com or email us at orientation@twu.edu.

Student Union Opportunities

The Student Union, located centrally on the Denton campus, provides students, faculty, and staff dining facilities, U.S. Post Office, game room, cyber and computer lounges, commuter student lounges, lactation room, meeting rooms, TV lounge, art gallery, game room, and general lounge/study areas. Students may also gain experience through employment opportunities and/or campus involvement through the services and programs provided by the Student Union. Lounge and study space are available on the Dallas and Houston campuses. For information, visit the website: www.twu.edu/student-union or call 940-898-3641.

Center for Student Development

The Center for Student Development (CSD) facilitates students' interpersonal development by providing intentional leadership opportunities: seminars, workshops, programs, community service projects, and retreats. CSD intends to assist and positively impact TWU students in their cognitive, intellectual, and social growth so that they may realize their roles as responsible, active citizens.

Students at TWU are encouraged to take advantage of both the formal leadership development programs and the informal opportunities to develop personal and professional skills. This approach to leadership ensures that students can tailor their own experiences and involvement around their individual needs. For more information visit www.twu.edu/o-sl/csd or call 940-898-3626.

Student Government Association

On the Denton campus and at the Dallas and Houston centers, all registered students are members of their respective Student Government Association. Student government is dedicated to enhancing communication through a united campus voice. It is the goal of student government to empower students by creating opportunities for involvement and taking on a proactive role in the overall experience here at TWU. Students should contact the Center for Student Development or the Student Life coordinator on their respective campus for more information (www.twu.edu/student-development/student-government.asp or www.twu.edu/student-life-houston/student-government.asp).

Student Organizations

Student organizations such as the Student Government Association, University honor societies, departmental honor societies and professional groups, national and local sororities, and various student interest groups are vital parts of the educational experience at Texas Woman's University. Involvement in university student organizations allows students to acquire leadership, communication, and team building skills. Participating in student organizations is beneficial during a student's collegiate experience and in her/his role as a citizen within a community. Opportunities to participate and assume leadership in a wide variety of group activities are important in each student's intellectual and professional development. For more information visit www.twu.edu/o-sl/csd/ or contact the Center for Student Development at (940) 898-3636..

Student Publications

The Lasso is the weekly student newspaper of Texas Woman's University, and it is written and edited by students. Its purposes are to inform students, faculty, and staff of University issues and events and to provide a channel for communication.

The newspaper provides students with valuable experience in managing a small business and in writing, editing, advertising, photography, design and cyberpublishing. The editor is appointed by the President on recommendation of the TWU Faculty-Student Board for Campus Publications. The University provides an adviser from the faculty.

INTERCOLLEGIATE ATHLETICS

TWU Athletics functions as an integral part of the total educational offerings of the University through the unique competitive learning experiences it provides. TWU Athletics shares with other components on campus the responsibility to contribute positively to the development of the individual student in an environment that empowers and affirms the full development of women.

A proud member of NCAA Division II and the Lone Star Conference, TWU Athletics is committed to the philosophy of academic and athletics excellence where student comes first in student-athlete. Since 1982, the combined grade point average of all student-athletes each semester has never dropped below a 3.0.

TWU teams have won state, regional and national championships. Individual student-athletes have set national records, achieved All-America honors, won medals in the Olympics, and participated on Pan American and national teams representing the United States.

TWU sponsors five varsity women's programs in the sports of basketball, gymnastics, soccer, softball, and volleyball. For additional information, contact the Director of Athletics at 940-898-2378, or write P.O. Box 425349, Denton, Texas 76204-5349, or visit the department's website at www.twuathletics.com.

STUDENT HEALTH AND WELLNESS SERVICES

University Counseling Center

The Counseling Center offers a wide variety of free and confidential services designed to help students meet personal, educational, and career goals. Students typically come to the Counseling Center for personal concerns such as relationship difficulties, depression, anxiety, family issues and for other concerns including career indecision, test anxiety, time management, and inability to study effectively. Individual and group counseling are available to help students resolve their concerns and learn new ways to be more effective. Crisis counseling is also available 24 hours a day when the university is open.

During the fall and spring semesters, both day and evening hours are available. Since hours vary by location, please check the schedule at each campus/center.

In addition to counseling services, the Counseling Center also makes available a variety of informational materials to students through our website at www.twu.edu/o-sl/counseling. A Self-Help Library developed by the Counseling Center contains useful information about a variety of topics. A broader library of materials from counseling centers around the country is available through the Virtual Pamphlet Collection. Students may use our Screening for Mental Health link to assess themselves anonymously about depression, anxiety, alcohol use, bipolar disorder, and post-traumatic stress. Students may also view our most popular outreach presentations through our website.

The Counseling Center also administers and interprets standardized career and psychological inventories that may help a student with personal, educational, or career goals.

Locations

Denton – West Jones Hall – 940-898-3801

Dallas Parkland – IHSD Suite 8300 – 214-689-6655

Dallas Presbyterian – DPH 16 – 214-706-2416

Houston – IHSH Suite 2250 – 713-794-2059

Student Health Services

The TWU Student Health Services (SHS) is centrally located on the Denton campus in Hubbard Hall across the street from ACT and next door to DPS (campus police department).. The Student Health Services office is dedicated to excellence in medical services for students at the University. For more details regarding health care for Dallas and Houston students please visit the website at www.twu.edu/student-health-services.

Health Insurance of International Students

Government regulations and TWU school policy require every person residing in the United States with J-1 or F-1 status to maintain health insurance with minimum provisions of coverage. As a condition of admission, and as required by these regulations (58 FR 15196, 59 FR 34761) Texas Woman's University requires all J-1 and F-1 international students to participate in the university sponsored insurance program. International students may request an exception from the sponsored plan only under specific circumstances (coverage by group health insurance provided through a U.S. employer).

For more information or to obtain an insurance fee waiver form – check out the website at: www.twu.edu/student-health-services.

TWU Fitness and Recreation

TWU Fitness and Recreation serves the University and the Denton community by providing access to swimming pools, tennis courts, a golf course, an outdoor basketball and sand volleyball court, and the new fitness and recreation center. The fitness and recreation center includes a state-of-the-art fitness center, student lounge, outdoor adventure area, climbing wall, three group exercise rooms, and a gymnasium that supports basketball, volleyball, and badminton. Fitness and Recreation provides a number of services to students, faculty/staff, and community members including: complimentary fitness assessments and exercise prescriptions, personal training, intramurals, sports clinics, open recreation, outdoor adventure trips, and group exercise classes. On the Dallas and Houston campuses, TWU Fitness and Recreation operates a fitness center and provides group exercise and outdoor adventure programming. TWU students have a free membership to Fitness and Recreation with a current ID card and faculty/staff may become members at a reduced rate. For more information, call 940-898-2900 or visit the Fitness and Recreation website at www.twufitnessandrec.com.

CLINICAL SERVICES

Dental Hygiene Clinic

Services of TWU's Dental Hygiene Clinic are available to faculty, staff, students, and the Denton community. For a nominal charge per semester, the clinic provides the following services: examinations, x-rays, fluoride applications, sealants, teeth cleaning, supportive periodontal therapy, and an oral disease control program. The clinic serves as a laboratory for dental

hygiene students. For more information contact the Dental Hygiene Clinic, Texas Woman's University, P.O. Box 425796 Denton, Texas 76204 or call 940/898-2888.

Speech-Language-Hearing Clinic

The Speech-Language-Hearing Clinic is part of the Institute for Clinical Services and Applied Research. In addition to participating in the multi-disciplinary activities of the institute, the Speech-Language-Hearing Clinic serves children and adults who need help with speech, language or hearing problems. Assessment and treatment services are provided. The Speech-Language-Hearing Clinic also maintains a program on the Dallas IHS campus for individuals who have had strokes.

The Speech-Language-Hearing Clinic serves as a laboratory for students in the Department of Communication Sciences and Disorders. Coupled with community practicum sites, it serves to enrich students' learning opportunities in the area of communication disorders. Information about the Speech-Language-Hearing Clinic or applications for services may be obtained by contacting the Institute for Clinical Services and Applied Research, P.O. Box 23029, Denton, TX 76204-1029 or by calling (940) 898-2285.

Counseling and Family Development Center

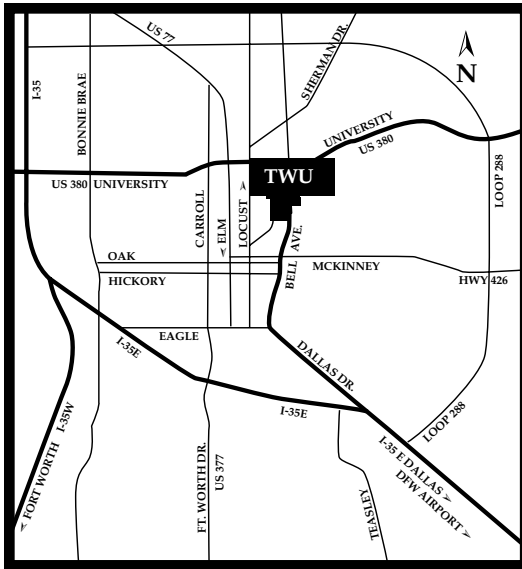
The TWU Counseling and Family Development Center, located in HDB 114, provides counseling for families, couples, groups, and individuals, offering family therapy, marital/relationship therapy, group counseling, individual counseling, and play therapy. Focusing on the natural resources of families, couples, and individuals, counselors help people create practical and often brief ways in which they can solve dilemmas and problems. Every client pays a fee to be seen in the clinic; however, counseling, educational, and preventive services are affordable for every family. Appointments are available by calling (940) 898-2660 for afternoon or evening hours, Monday through Thursday.

The Integrated Clinic for Behavior and Learning Evaluation approaches student difficulties in academics and/or behaviors through the use of a problem solving model which assesses family dynamics and its impact on learning. Through this model, family dynamics are assessed first to identify the primary issue that needs evaluation and planned intervention. Trained professionals interview, evaluate, and collaborate with families and other professionals in an attempt to create a comprehensive evaluation of the student and/or family. Through the all-inclusive evaluation process, difficulties can be pinpointed and appropriate intervention planned.

Additional information is available online at:
www.twu.edu/family-sciences/behavior-learning-clinic.asp.

Campus Maps

Directions to Denton



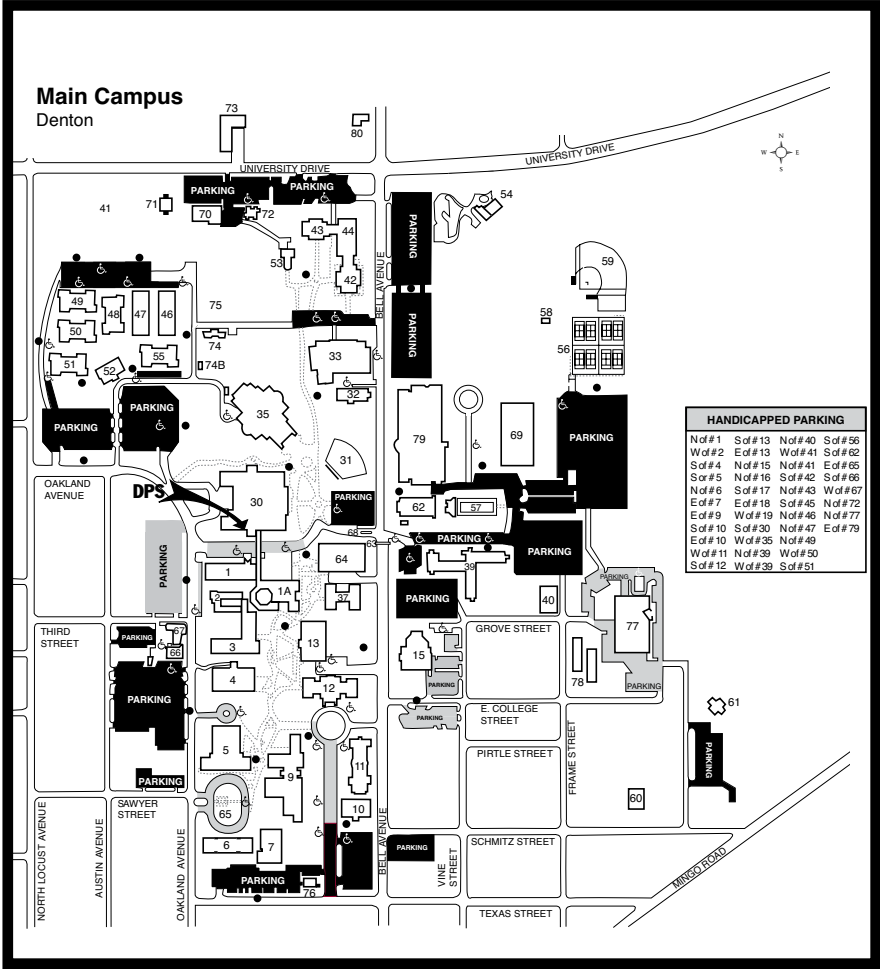
From DALLAS: Take Interstate 35 E to Denton. Continue on I-35 North past the I-35 E and I-35 W intersection, then take Exit no. 469 (US 380/ University Drive). Turn right on University Drive. Follow University Drive to Bell Avenue, which runs through the TWU campus. Turn right on Bell Avenue. Turn right on Administration Drive and stop at the information booth for parking assistance and directions.

From FORT WORTH: Take Interstate 35W to Denton, exiting at US 380 (University Drive). Turn right on University Drive. Follow University Drive to Bell Avenue, which runs through the TWU campus. Turn right on Bell Avenue. Turn right on Administration Drive and stop at the information booth for parking assistance and directions.

From OTHER AREAS: US Highway 380 is the major east-west thoroughfare in Denton. Known in the city as University Drive, it borders the northern edge of the TWU campus.

A campus map showing access routes for persons with disabilities is available at the Information Booth and at the Office of Disability Support Services, CFO 105, or call (940) 898-3835 or TDD (940) 898-3830.

Main Campus Denton



Key to Denton Campus Buildings

DEPARTMENTS

- | | | | |
|----|--|----|---|
| 6 | Arts, Visual (ART 107) | 11 | Physical Therapy, School of (HDB 202) |
| 13 | Arts and Sciences, College of (CFO 1210) | 13 | Psychology and Philosophy (CFO 702) |
| 79 | Athletics (PH 220) | 15 | Reading (MCL 907) |
| 15 | Bilingual/ESL Program (MCL 305) | 9 | Science Courses in Chemistry & Physics Dept. |
| 4 | Biology (GRB 230) Courses in Bacteriology, Biology, Botany, Zoology | 13 | Sociology (CFO 305) |
| 13 | Business Courses in School of Management (CFO 505) | 12 | Socialwork (OMB 203) |
| 9 | Chemistry and Physics (ASSC 334) Courses in Chemistry, Physics and Science | 13 | Spanish Courses in Dept. of English, Speech and Foreign Languages (CFO 905) |
| 15 | Communication Sciences and Disorders (MCL 708) | 37 | Teacher Education (SH 202) |
| 62 | Dance (DGL 206 B) | 11 | Women's Studies (HDB 307) |
| 12 | Dental Hygiene (OMB 220) | 13 | Write Site (CFO 129) |
| 5 | Drama (Redbud Theater 228) | 15 | Computer Lab (MCL 2) |
| 13 | Economics Courses in School of Management (CFO 505) | 35 | Computer Lab (BHL 1) |
| 37 | Education, College of Professional (SH 202) | | |
| 37 | Educational Administration (SH 202) | | |
| 13 | English, Speech and Foreign Languages (CFO 905) | | |
| 11 | Family Sciences (HDB 115) | | |
| 12 | Fashion and Textiles (OMB 415) | | |
| 13 | Health Sciences, College of (HDB 202) | | |
| 13 | Health Studies (CFO 1007) | | |
| 13 | History and Government (CFO 605) | | |
| 79 | Kinesiology (PH 208) | | |
| 37 | Library and Information Studies (SH 404) | | |
| 13 | Management, School of (CFO 505) Courses in Business, Economics | | |
| 37 | Mass Communications (SH 404) | | |
| 15 | Mathematics & Computer Science (MCL 302) | | |
| 5 | Music (MUS 114) | | |
| 3 | Nursing, College of (ASB 216) | | |
| 12 | Nutrition and Food Sciences (OMB 307) | | |
| 15 | Occupational Therapy, School of (MCL 810) | | |
| 37 | Professional Education, College of (SH 202) | | |

ACADEMIC BUILDINGS

1. Admission and Registration Building
- 1A. Administrative Conference Tower
2. Arts and Sciences (Patio Building)
3. Arts and Sciences Building
4. Graduate Science Research Building
5. Music Building/Margo Jones Performance Hall
6. Art Building
7. Bralley Annex
9. Ann Stuart Science Complex
10. Undergraduate Science Laboratory Building
11. Nutrition, Textiles, and Human Development Building
12. Old Main Building
13. CFO Tower
15. Multipurpose Classroom Laboratory Building
30. Hubbard Hall--Department of Public Safety, Student Health
31. Amphitheater
32. Institutional Development
33. Fitness and Recreation
35. Mary Evelyn Blagg Huey Library

This map shows the following streets:

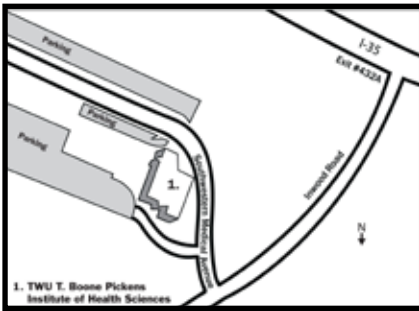
- North-South Streets (from west to east):** N. Harvard St., N. Envy St., N. Main St., N. Oak St., N. Pearl St., S. Central Exwy., S. Pearl Exwy.
- East-West Streets (from north to south):** Federal St., Bryant St., N. Harwood St., Olive St., Elm St., Pacific Ave., Commerce St., Jackson St., Wood St., Young St., Park Ave., Canton St., Cedar St.

A red 'X' is located at the intersection of Olive St. and Live Oak St. This intersection is highlighted by a red circle. Arrows indicate traffic flow: one arrow points east on Pacific Ave., another points east on Commerce St., and a third points north on Live Oak St.

From Denton, take I-35E south to Dallas. Take the Commerce Street exit from I-35E. Continue on Commerce Street, traveling east through most of the downtown area. Turn left (north) on either St. Paul or Harwood Street. The UCD is on the north side of Main St. between St. Paul and Harwood. Parking lots are available on the south side of Main St. and the east side of Harwood.

Dallas Center

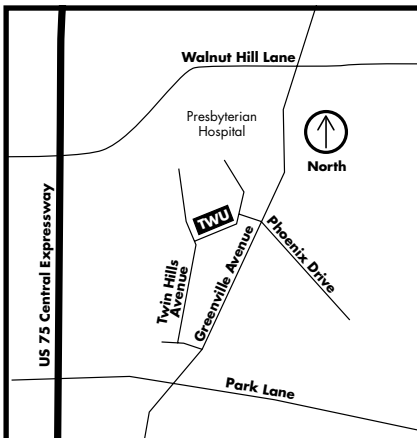
TWU T. Boone Pickens Institute of Health Sciences – Dallas Center



From DALLAS: The Dallas Center is located between downtown Dallas and Love Field, adjacent to Parkland, Children's and St. Paul's hospitals and the UTSW Medical Center.

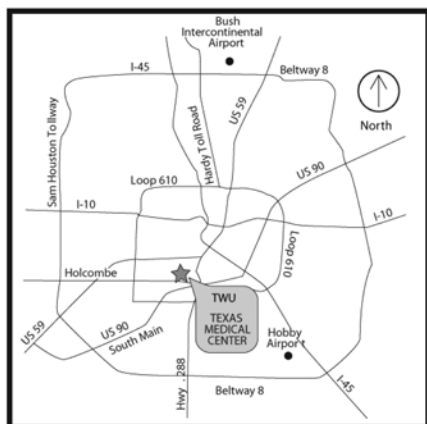
From Stemmons Freeway (I-35E), take the Inwood exit north and turn right on Southwestern Medical Avenue. Visitor and handicapped parking are located in front of the building.

Presbyterian Campus



From CENTRALEXPRESSWAY (US 75), take the Walnut Hill Lane exit, and go east past the hospital to Greenville Ave. Turn right (south), and right again (west) at Phoenix Avenue. Visitor and handicapped parking are located in front of the main entrance.

Houston Institute for Health Sciences Center



DIRECTIONS

From I-10 Traveling East or West - Exit highway 59 South. Travel 59 South to Highway 288. Exit Holcombe Blvd. and turn right. TWU will be on your right, between Fannin and Main. Parking entrance will be on Main.

From International Airport/Highway 59 Traveling South - Depart Intercontinental Airport onto Will Clayton Boulevard. Take Will Clayton to Highway 59 South. Travel Highway 59 South to Highway 288 (19 miles). Take Highway 288 South to Holcombe Blvd. Exit Holcombe Blvd. and turn right. TWU will be on your right, between Fannin and Main. Parking entrance will be on Main.

From I-45 Traveling South - Travel South on IH-45 to Highway 288. Take Highway 288 South to Holcombe Blvd. Exit Holcombe Blvd. and turn right.

TWU will be on your right, between Fannin and Main. Parking entrance will be on Main.

From Highway 290 Traveling South - Merge onto 610 South. Travel 610 South to I-10 East. Exit Highway 59 South. Travel 59 South to Highway 288. Exit Holcombe Blvd. and turn right. TWU will be on your right, between Fannin and Main. Parking entrance will be on Main.

From Hobby Airport/I-45 traveling North - Depart Hobby Airport onto Broadway. Travel Broadway to I-45 North. Exit I-45 North onto the 610 Loop westbound. Follow 610 Loop West to Fannin. Exit and turn right onto Fannin. Exit Holcombe Blvd. and turn left. TWU will be on your right, between Fannin and Main. Parking entrance will be on Main.

From Highway 59 Traveling North - Exit Main St. and turn right. Continue heading south on Main, straight through the Texas Medical Center. TWU will be on your left, just before Holcombe.

From Highway 288 Traveling North - Exit Holcombe Blvd. and turn left. TWU will be on your right, between Fannin and Main. Parking entrance will be on Main.

The College of Arts and Sciences

Dean: Ann Q. Staton, Professor
Associate Dean: Don E. Edwards, Professor

Location: CFO 1210
Telephone: (940) 898-3326
Fax: (940) 898-3366
E-Mail: cas@twu.edu
Website: www.twu.edu/arts-sciences/

The College of Arts and Sciences prepares graduates with a broad knowledge and understanding of the world; an in-depth knowledge of their area of specialty; sophisticated intellectual, critical thinking, and practical skills; a strong sense of personal, ethical, and civic responsibility for making a difference in society; and the ability to apply their education to enrich every aspect of their lives. The integration of academic disciplines and professional programs and facilitation of creative and critical thinking distinguish the College. The College encourages collaborations and partnerships to enhance educational, research, and career opportunities. Through a spectrum of innovative learning strategies, the College increases educational opportunities for a diverse student body, particularly women and underrepresented populations.

All of us in Arts and Sciences are committed to the goal of preparing our students to meet the challenges of an ever-changing global environment, and to meet the expressed needs of employers for graduates who are: excellent communicators, analytical thinkers, able to apply scientific and mathematical learning, proficient in the uses of technology, and culturally literate.

Within this framework, opportunities abound for students to:

- Excel academically (Honors courses, research projects, exhibitions and performance venues);
- Experience an optimum classroom and/or online distance learning environment;
- Acquire professional work experiences (Internships and cooperative education programs);
- Develop leadership skills (Student clubs and organizations);
- Prepare for graduate education or direct entry into a career;
- Begin the lifelong process of personal enrichment (Community service and study tours across the country and around the world).

The College of Arts and Sciences is comprised of the departments of Biology; Chemistry and Physics; English, Speech and Foreign Languages; History and Government; Mathematics and Computer Science; Psychology and Philosophy; Sociology and Social Work; Women's Studies; the School of Management (Business/Economics, Fashion/Textiles, Health Systems Management); and the School of the Arts (Dance, Drama, Music, Visual Arts).

Programs offered by the College lead to the degrees of Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Science, Bachelor of Social Work, Bachelor of General Studies, Master of Arts, Master of Fine Arts, Master of Science, and the Doctor of Philosophy. Also offered are several interdisciplinary minors such as Digital Media, Ethnic Studies, and Global Studies. General degree requirements of the University (Core Curriculum) can be found in previous pages of this catalog.

Please visit our home page for more information:
www.twu.edu/arts-sciences/

Bachelor of General Studies Program

Associate Dean: Don Edwards, Professor

Program Director: Brandie Golleher

Location: CFO 1201

Telephone: (940) 898 -3850

Telefax: (940) 898 - 3351

E-Mail: dedwards@twu.edu

E-Mail: bgolleher@twu.edu

www.twu.edu/genstudies/

The Bachelor of General Studies (BGS) degree, offered through the College of Arts and Sciences, is an interdisciplinary program that provides versatility for adult learners and part-time students who need a flexible curriculum designed to balance work and life responsibilities with educational goals. This program provides on-campus and/or online learning and requires a total of 120 hours for the degree. Students pursuing the BGS degree must satisfy university admissions requirements and must complete:

- Either 12 advanced hours in each of three areas of concentration, or 18 advanced hours in each of two chosen areas, with a grade of C or higher in all course work;
- A total of 36 advanced hours in the areas of concentration with at least one-half of the hours in each area completed at TWU;
- Elective courses as needed to reach total of 120 hours for the degree;
- State core curriculum requirements;
- All other general university requirements for the Bachelor's degree.

Concentration areas may be selected from the following disciplines

- Business
- Criminal Justice
- Dance (12 hrs only)
- English
- Visual Art
- History/Government
- Mathematics/Computer Science
- Sociology
- Women's Studies

Coursework required to complete most of the concentration areas is available completely online. More detailed information about the program, including sample degree plan, course listing and a rotating schedule of online courses, is available on the program's website at www.twu.edu/genstudies/.

School of the Arts

Director:

Location: DGL 206

Telephone: (940) 898-2085

Telefax: (940) 898-2098

E-Mail:

www.twu.edu/soa/

The School of the Arts brings together the Departments of Dance, Music, Drama, and Visual Arts. The School is a community of artists, educators, therapists, and scholars, and serves a diverse student population, especially women, within a liberal arts context.

Interdisciplinary artistic engagement is integral to the School of the Arts. Student and faculty creative involvement is encouraged, across traditional and new media, in a spirit of innovative and inventive collaboration. The faculty and students in dance, drama, music and visual arts come together to share in performance arts productions, concerts, exhibitions and cross-disciplinary projects and programs. The School is committed to promoting understanding and appreciation of the power of the arts to reflect and influence society and to make a difference in the lives of the people they serve.

Performing and exhibiting facilities include the 1150-seat Margo Jones Performance Hall; Redbud Theatre Complex; Eberly Recital Hall; Studio Theatre in the Dance Building and studio performance spaces in Pioneer Hall; and two professional quality galleries in the Visual Arts Building.

Students may major in any one of the departments with degree programs leading to the Bachelor of Arts, Bachelor of Science, Bachelor of Fine Arts, the Master of Arts, Master of Fine Arts, and in Dance, the Doctor of Philosophy degree.

Teacher certification programs are offered in dance, music and visual arts. Department statements, degree requirements, and course listings for each individual department are in the department sections of this catalog and on the department home pages (www.twu.edu/soa)

For more information please see the School of the Arts homepage (www.twu.edu/soa/).

DEPARTMENT OF DANCE

Interim Chair: Mary Williford-Shade, Professor

Location: DGL 206

Telephone: (940) 898-2085

Telefax: (940) 898-2098

E-Mail:

www.twu.edu/dance

Faculty: Professors L. Caldwell, M. Williford-Shade; Associate Professors S. Gamblin, G. Keeton; Assistant Professor J. Fuchs; Dance Musician K. Fleming.

The Department of Dance offers dance major programs leading to the Bachelor of Arts, Master of Arts, Master of Fine Arts, and Doctor of Philosophy degrees. An undergraduate program may be selected in dance studies or dance education leading to secondary teacher certification in dance. Texas Woman's University Department of Dance is an accredited institutional member of the National Association of Schools of Dance.

Degree programs are designed to prepare dance artists, scholars and/or educators who are well-grounded in the theories and contexts of dance as an art form and cultural expression. Integrating studio and theoretical studies, the various programs provide a comprehensive approach to dance learning which merges technique, performance, and choreography with in-depth study of dance in artistic and social/cultural contexts.

The dance major core curriculum emphasizes modern dance, contemporary repertory, pedagogy, choreography, dance in diverse cultures, history and performance. Learning in these areas is enhanced by the study of movement analysis and somatic practices as well as a variety of dance forms such as ballet, tap, jazz and world dance forms.

Students are auditioned to determine placement in ballet and modern dance technique courses and progress through graded levels; each level representing one year of study. To ensure safe and sound preparation, a student progresses to the next level upon recommendation of the Technique Committee. Transfer students must be placed at Level III to meet the Ballet II competency by transfer credit. Except where indicated in the teacher certification program, each dance major must register for at least one dance technique course each semester. A grade of C or better is necessary before enrolling in a succeeding course in the choreography sequence (DNCE 1191, 2201, 3292, 4182). A grade of C or better must be earned in all courses required for the dance major. In each of the areas of Technique, Choreography, and Performance, fifty-percent of the hours must be taken at TWU.

Performing and choreographing are integral parts of the dance learning experience and students are encouraged to audition for the variety of performing opportunities offered each semester and to choreograph and present their works on the Fall and Spring choreography concerts. Dance majors who are performing

or choreographing must register for an appropriate performance or choreography workshop course and must meet the conditions specified in the performance policy.

Detailed information about the undergraduate dance major program may be found in the “Undergraduate Dance Student and Advisor Handbook” available online at www.twu.edu/dance.

Dance Courses for Non-Dance Major Students

The Department of Dance offers the following courses open to all students to meet the University-wide Core Curriculum requirements:

- DNCE 1011 Introduction to Ballet
- DNCE 1051 Introduction to Modern Dance
- DNCE 1061 Introduction to Jazz
- DNCE 1071 Introduction to Tap
- DNCE 2393 Understanding the Arts: Dance
- DNCE 3143 World Dance (Fine Arts and Global Perspectives Course)
- DNCE 3393 Dance History
- DNCE 3373 World of the Imagination in Art, Dance, Film
- DNCE 3383 Dance, Gender and Culture
(Multi-Cultural/Women’s Studies)
- (Cross-listed with WS 3383)
- DNCE 4383 Performing Arts in American Popular Culture

See list of Dance undergraduate courses for core curriculum areas.

DNCE 1091 Pilates Physical Conditioning/Body Work and DNCE 1021 Ballroom Dance are open to all students.

Dance major courses, including upper-level ballet and modern dance courses, are open to non-major students if space is available; dance majors have priority for courses required for the major. Approval of the instructor or Department Chair is required.

Dance Studies Concentration – Bachelors of General Studies

The Dance Studies Concentration for the B.G.S. degree focuses on how dance is viewed and understood as a form of expression in social, cultural, and historical contexts. Many different dance forms are studied as they relate to popular culture and the media, women’s studies, transnational and global dance experiences, interdisciplinary instances of performance, and the artistic practices of individual choreographers and performers. All courses for the B.G.S. concentration are offered in 100% online format. No previous dance experience is necessary for students to select the Dance Studies Concentration.

- DNCE 3143. World Dance Forms
- DNCE 3373. World of the Imagination in Dance, Art and Film
- DNCE 3383. Dance, Gender, and Culture
- DNCE 4383. Performing Arts in Popular Culture

Admission Requirements

Please see admission section of this catalog. In addition to these general requirements, auditions for placement in dance major ballet and modern dance technique are required. Placement auditions for new students are held the week before classes begin in the fall semester. See the Dance Department web page at www.twu.edu/dance.

Undergraduate Degrees

B.A. in Dance

B.A. in Dance with Teacher Certification

The Bachelor of Arts Degree in Dance: Dance Studies (120 hours)

General Description

The Bachelor of Arts degree in Dance is designed to provide the undergraduate dance major with a comprehensive liberal arts-based curriculum integrating dance studies with a broad foundation in the humanities and the other arts, as well as in the biological, physical and social sciences. The goal of the program is to prepare students for dance careers in a variety of artistic and educational settings. Detailed degree plans are available from the Department of Dance Office.

FIRST YEAR

First Semester	Second Semester
DNCE 1111 Elem. Ballet..... 1	DNCE 1121 Elem. Ballet..... 1
DNCE 1151 Elem. Modern Dance..... 1	DNCE 1161 Elem. Modern Dance..... 1
DNCE 1392 Intro. to Dance..... 2	DNCE 1171 Bartenieff Fundamentals..... 1
DNCE 1091 Dance Cond.: Pilates..... 1	DNCE 2192 Music for Dancers..... 1
DNCE 1191 Improvisation..... 1	DNCE 2201 Dance Composition..... 2
DNCE 1071 Intro. Tap Dance..... 1	ENG 1023..... 3
ENG 1013..... 3	HIST 1023..... 3
HIST 1013 U.S. History 1492-1865..... 3	SPCH 1013 (Related Studies)..... 3
MATH 1013 Quant. Literacy..... 3	
Total Hours 16	Total Hours 15

SECOND YEAR

First Semester	Second Semester
DNCE 2111 Int. Ballet..... 1	DNCE 2121 Int. Ballet..... 1
DNCE 2151 Int. Modern Dance..... 1	DNCE 2161 Int. Modern Dance..... 1
DNCE 2183 Movement Analysis..... 3	DNCE 3101 Performance..... 1
DNCE 3292 Choreographic Designs..... 2	GOVT 2023..... 3
DNCE 3101 Performance..... 1	SCIENCE..... 3
GOVT 2013..... 3	SOCIAL SCIENCES..... 3
ZOOL 2013 Anatomy & Phys..... 3	HUMANITIES..... 3
ZOOL 2011 Anatomy Phys Lab..... 1	
Total Hours 15	Total Hours 15

THIRD YEAR

First Semester	Second Semester
DNCE TECHNIQUE..... 1	DNCE TECHNIQUE..... 1
DNCE 3151 Int./Adv. Modern Dance 1	DNCE 3161 Int./Adv. Modern Dance 1
DNCE 3101 Performance 1	DNCE 3101 Performance..... 1
DNCE 3143 World Dance Forms (GP).. 3	DNCE ELECTIVE..... 1
DNCE 4243 Children's Dance..... 3	DNCE 3191 Int. Adv. Jazz 1
DANCE ELECTIVES 2	MATH 3
WS 2013 Gender & Social Change..... 3	FINE ARTS 3
(MCWS/GP)	RELATED STUDIES/MINOR 3
	DNCE 3913 Dance/Music/Theatre..... 3
	Improv. (RELATED STUDIES)
	Summer I
Total Hours 14	Total Hours 17

FOURTH YEAR

First Semester	Second Semester
DANCE TECHNIQUE..... 1	DANCE TECHNIQUE 1
DNCE 3813 Theories of Teaching..... 3	DNCE 3101 Dance Performance..... 1
DNCE 3101 Performance 1	DNCE 4133 Dance Production 3
DNCE 3393 History of Dance 3	DNCE 4393 Contemporary Repertory 3
DNCE 4182 Concert Choreography 2	RELATED STUDIES/MINOR 3
DANCE ELECTIVE..... 1	RELATED STUDIES/MINOR 3
RELATED STUDIES/MINOR..... 3	
Total Hours 14	Total Hours 14

If CSI 1403 is required, use 3 hrs. of Related Studies hours.

The sequence of some upper-level courses may be reversed due to the course rotation plan.

(See course rotation plan.) Total hours for major courses: 59. Total hours for minor courses:

18. Total all hours for degree: 120.

All students must complete six credit hours in approved Global Perspectives courses, either in the core or major courses (graduation requirement).

Required Dance Major Courses

Dance Technique

14 Credits of technique are required and Modern III and Ballet II-level competency (DNCE 3151 & 3161 and 2111 & 2121). If a student is placed in the upper levels, she or he still must complete the required number of technique credits. The technique requirement is fulfilled by meeting the minimum competency level and presenting the required number of credits. One TWU SummerDance workshop is required.

A student who has reached the minimum level of competency may substitute approved summer workshops for up to two technique credits. Each summer workshop will be counted as one credit of technique.

DNCE 1091	Pilates Physical Conditioning/Body Work
DNCE 1171	Bartenieff Fundamentals of Movement
DNCE 1111 & 1121	Elementary Ballet
DNCE 1151 & 1161	Elementary Modern Dance
DNCE 2111 & 2121	Intermediate Ballet
DNCE 2151 & 2161	Intermediate Modern Dance
DNCE 3111 & 3121	Intermediate/Advanced Ballet
DNCE 3151 & 3161	Intermediate/Advanced Modern Dance
DNCE 3191	*Intermediate/Advanced Jazz
DNCE 1071 or 3171	Beginning or *Intermediate/Advanced Tap

Dance Theory

DNCE 1392	Introduction to Dance as an Art Form
DNCE 2192	Music for Dancers
DNCE 3143	World Dance Forms
DNCE 2183	Movement Analysis and Description
DNCE 3813	*Theories of Teaching Dance Technique
DNCE 3393	*Dance History
DNCE 4243	Form and Meaning in Children's Dance
DNCE 4393	*Contemporary Repertory and Current Issues in Choeography/Performance

Choreography

DNCE 1191	Improvisation
DNCE 2201	Dance Composition
DNCE 3292	Choreographic Designs
DNCE 4182	Concert Choreography
DNCE 4133	*Dance Production

* Offered every other year. See undergraduate handbook for course rotation plan.

Performance

DNCE 3101	Dance Performance (6 credits required)
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Dance electives 4 credit hours**Related Courses**

ZOOL 2043 /2041	Human Anatomy or equivalent approved by department chair
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Dance Minor

The dance minor for the baccalaureate degree is intended to provide students majoring in other academic fields with a sub-concentration in the area of dance studies. The minor in dance requires 18 semester hours of study in dance; six of which must be advanced. A minor degree plan detailing required courses and suggested electives is available from the Department of Dance Office. Dance majors may not select dance as a minor.

The Bachelor of Arts Degree with Secondary Teacher Certification in Dance (121 hours)

General Description

The Bachelor of Arts degree in Dance with teacher certification is designed to prepare dance educators for the secondary schools. The curriculum provides the dance major with a comprehensive foundation in the content areas that define dance as a discipline, as well as the skills necessary to develop in others an appreciation and understanding of dance as an art form and cultural phenomenon. Focusing on developing the teacher as a facilitator of learning rather than a dispenser of information, the curriculum integrates dance studies with the university general education requirements and a core of professional development courses. See College of Education and Professional Studies section for certification requirements. A detailed degree plan is available in the Department of Dance Undergraduate Student and Advisor Handbook, available online at www.twu.edu/dance.

Dance Undergraduate Courses

***DNCE 1011. Introduction to Ballet.** (DANC 1141, 1142) Introduction to classical ballet technique for non-dance major beginning students. Three studio hours a week. May be repeated for credit. Credit: One hour.

DNCE 1021. Ballroom/Popular Club Dance. (DANC 1128, 1133, 1134) A variety of popular dances such as swing, salsa, tejano, country-western, and traditional ballroom dances; participation in leisure, social, and/or theatre dance settings. Three studio hours a week. May be repeated for credit. Credit: One hour.

***DNCE 1051. Introduction to Modern Dance.** (DANC 1145, 1146) Introduction to modern dance technique for non-dance major beginning students. Satisfies core curriculum Fine Arts requirement. Three studio hours a week. May be repeated for credit. Credit: One hour.

***DNCE 1061. Introduction to Jazz Dance.** (DANC 1147, 1122, 1123) Introduction to jazz dance technique for non-dance major beginning students. Satisfies core curriculum Fine Arts requirement. Three studio hours a week. May be repeated for credit. Credit: One hour.

***DNCE 1071. Introduction to Tap Dance.** (DANC 1110, 1111) Introduction to tap dance technique for non-dance major beginning students. Satisfies core curriculum Fine Arts requirement. Three studio hours a week. May be repeated for credit. Credit: One hour.

DNCE 1081. Jazz Dance Aerobics. Development of cardiovascular fitness, flexibility, strength and movement coordination through participation in jazz dance aerobics. Three studio hours a week. May be repeated for credit. Credit: One hour.

DNCE 1091. Pilates Physical Conditioning/Body Work. Physical conditioning based on the theories of Joseph Pilates to increase strength, flexibility, range of motion and coordination. Three studio hours a week. May be repeated for credit. Credit: One hour.

*Satisfies core requirement for visual/performing arts.

DNCE 1111. Elementary Ballet I. (DANC 2141) Beginning ballet technique, barre, center work, beginning enchainements; emphasis on alignment. Three laboratory hours a week. Credit: One hour. May be repeated for additional credit.

DNCE 1121. Elementary Ballet II. (DANC 2142) Continuation of DNCE 1111, elementary ballet. May be repeated for additional credit.

DNCE 1121. Elementary Ballet II. (DANC 2142) Continuation of DNCE 1111, elementary ballet. May be repeated for additional credit. Three laboratory hours a week. Credit: One hour.

DNCE 1151. Elementary Modern Dance I. (DANC 2145) Beginning professional-level study. Four and one-half laboratory hours a week. Credit: One hour. May be repeated for additional credit.

DNCE 1161. Elementary Modern Dance II. (DANC 2146) Continuation of DNCE 1151. Elementary techniques and combinations. Prerequisite DNCE 1151. Four and one-half hours a week. Credit: One hour. May be repeated for additional credit.

DNCE 1171. Bartenieff Fundamentals of Movement. Application of Bartenieff Fundamentals of Movement to prepare the body for dance training by re-educating movement patterns. Three studio hours a week. Credit: One hour. May be repeated for additional credit.

DNCE 1191. Improvisation. (DANC 1113) Exploration of movement and visual design through improvisation. One lecture and two laboratory hours a week. Credit: One hour.

DNCE 1392. Introduction to Dance as an Art Form. Orientation to dance as a performing art form; role and scope of dance in American culture; concepts for maintaining a healthy dancer's lifestyle; career opportunities for the dance artist, educator and scholar. Two lecture hours and one laboratory hour a week. Credit: Two hours.

DNCE 2111. Intermediate Ballet I. (DANC 2341) Basic technique class in ballet, barre, center work, basic enchainements. Prerequisite: Elementary Ballet I and II or permission of instructor. Three laboratory hours a week. Credit: One hour. May be repeated for additional credit.

DNCE 2121. Intermediate Ballet II. Continuation and progression of Intermediate Ballet I. Introduction of pointe work. Prerequisite: Intermediate Ballet I or permission of instructor. Three laboratory hours a week. Credit: One hour. May be repeated for additional credit.

DNCE 2131. Basic Dance. Basic techniques of jazz, modern dance, and folk; arrangement of movement patterns and application of compositional principles for aerobic dance, drill teams, and creative movement. Three laboratory hours a week. Credit: One hour.

DNCE 2151. Intermediate Modern Dance I. (DANC 2245) Intermediate-level study in modern dance. Prerequisite: Elementary Modern Dance I and II or permission of instructor. Four and one-half laboratory hours a week. Credit: One hour. May be repeated for additional credit.

DNCE 2161. Intermediate Modern Dance II. Continuation and progression of Intermediate Modern Dance I. Prerequisite: Intermediate Modern Dance I or permission of instructor. Four and one-half laboratory hours a week. Credit: One hour. May be repeated for additional credit.

DNCE 2183. Introduction to Movement Analysis and Description. Perception and description of movement, emphasis on the Laban Movement Analysis

framework and its application to technique, performance and choreography. Prerequisite: Level II Technique, DNCE 1091 and DNCE 1171 or permission of instructor. Two lecture hours and two studio hours a week. Credit: Three hours.

DNCE 2192. Music for Dancers. Elements of music, with emphasis on rhythm, related to dance technique, performance, choreography, pedagogy, and accompaniment; overview of historical periods in music and composer and choreographer collaborations. Two lecture and one laboratory hours a week. Credit: Two hours.

DNCE 2201. Dance Composition. (DANC 1103) Explorations of choreographic tools with emphasis on stage space, dynamic structure, rhythmic pattern, props, and chance composition. One lecture and two laboratory hours a week. Credit: One hour.

***DNCE 2393. Understanding the Arts: Dance.** (DANC 2304) Dance as a communicative and multicultural art form in society; introduction to the aesthetic and critical dimensions of viewing various idioms of theatrical, ethnological, and ritual dance. Three lecture hours a week. Credit: Three hours.

DNCE 3101. Dance Performance. (DANC 1112, 1152) Intermediate and advanced performance techniques. Participation in dance performances. Must be registered concurrently in a ballet or modern technique. Prerequisite: DNCE 2101 or permission of instructor. Four laboratory hours a week. Credit: One hour. May be repeated for additional credit.

DNCE 3111. Intermediate/Advanced Ballet I. Technique in ballet, pointe work. Prerequisites: DNCE 2121 or permission of instructor and faculty advisor. Four laboratory hours a week. Credit: One hour. May be repeated for additional credit.

DNCE 3121. Intermediate/Advanced Ballet II. Continuation and progression of Intermediate/Advanced Ballet I. Prerequisite: Intermediate/Advanced Ballet I or permission of instructor. Four and one-half laboratory hours a week. Credit: One hour. May be repeated for additional credit.

****DNCE 3143. World Dance Forms.** (DANC 1306) Theories and techniques of world dance forms and their social, cultural, and political significance. Two lecture and two studio hours a week. Appropriate for all majors. Credit: Three hours.

DNCE 3151. Intermediate/Advanced Modern Dance I. Intermediate-Advanced study in modern dance technique and repertory. Prerequisite: Intermediate Modern Dance II or permission of instructor. Four and one-half laboratory hours a week. Credit: One hour. May be repeated for additional credit.

DNCE 3161. Intermediate/Advanced Modern Dance II. Continuation and progression of Intermediate/Advanced Modern Dance I. Prerequisite: Intermediate/Advanced Modern Dance I or permission of instructor. Four and one-half laboratory hours a week. Credit: One hour. May be repeated for additional credit.

DNCE 3171. Intermediate/Advanced Tap Dance. (DANC 2111) Relationship of style and characteristics of various types of tap dance; emphasis upon rhythmic accuracy, analysis, repertoire, and composition; specific teaching methods for schools and recreational situations. Prerequisite: One semester of tap dance or its equivalent. Three laboratory hours a week. Credit: One hour.

*Satisfies core requirement for visual/performing arts.

**Satisfies global perspectives graduation requirements and core requirement for visual/performing arts.

DNCE 3183. Dance Notation. Introduction to the major dance notation systems, emphasizing Labanotation. Three lecture hours a week. Credit: Three hours.

DNCE 3191. Intermediate/Advanced Jazz. (DANC 2122) Intermediate/Advanced Jazz technique, jazz-based improvisation and repertory. Prerequisite: Level II Technique. Three studio hours a week. Credit: One hour. May be repeated for additional credit.

DNCE 3292. Choreographic Designs. Development of artistic and critical evaluation process skills in choreography. Application of compositional principles to groups, special emphasis on selecting and working with accompaniment as an extension of the choreographic idea. Prerequisite: DNCE 1091, DNCE 2183 or equivalent. One lecture hour and three studio hours a week. Credit: Two hours.

***DNCE 3373. World of the Imagination in Art, Dance, Film.** Examines themes of fantasy and reality, emphasis on dance and visual arts with selected examples from other disciplines. No prerequisites. Fulfills interdisciplinary and fine arts core curriculum requirements. Appropriate for all majors. Three lecture hours a week. Credit: Three hours.

****DNCE 3383. Dance, Gender and Culture.** Dance expression and how it inscribes markers of identity such as gender, race, ethnicity, social class, ableness, and sexuality on the body in performance; the analysis of movement in social, cultural, and historical contexts and the aesthetic characteristics that influence how dance is perceived and interpreted. Appropriate for all majors. Three lecture hours a week. Credit: Three hours.

***DNCE 3393. History of Dance.** Leading historical and contemporary ballet and modern dance choreographers, performers, and writers and the artistic and societal frameworks in which dance forms evolved; overview of jazz, tap, musical theatre dance forms. Three lecture hours a week. Credit: Three hours. (Satisfies Fine Arts requirement for non-dance majors.)

DNCE 3813. Theories of Teaching Dance Technique. Analysis of the teaching/learning process in dance with emphasis on the development of personal teaching philosophies and their application to a variety of settings. Prerequisites: Level II technique and DNCE 2183 Introduction to Movement Analysis and Description. Three lecture hours a week. Credit: Three hours.

DNCE 3913. Dance/Music/Theatre Improvisation. Exploration of the integration of movement, sound, and text through the use of improvisation and the development of collaborative performances works. One lecture and three laboratory hours a week. Credit: Three hours. May be repeated for additional credit.

DNCE 3923. Music Theatre: Form-in-the-Making. Artistic process of creating music theatre from the perspective of the choreographer, composer, and playwright. Prerequisite: DNCE 3913, DRAM 3913, or MU 3913 or permission of instructor. Six laboratory hours per week. Credit: Three hours. May be repeated for additional credit.

DNCE 4111. Advanced Ballet I. Advanced technique in ballet. Prerequisite: Intermediate/Advanced Ballet II or permission of instructor. Four and one-half laboratory hours a week. Credit: One hour. May be repeated for additional credit.

*Satisfies core requirement for visual/performing arts.

**Satisfies core requirement for multicultural/women's studies or visual/performing arts.

DNCE 4121. Advanced Ballet II. Continuation and progression of Advanced Ballet I. Prerequisite: Advanced Ballet I or permission of instructor. Four and one-half laboratory hours a week. Credit: One hour. May be repeated for additional credit.

DNCE 4133. Dance Production. Theory and practice of staging dance productions: costume and lighting design, sound technology and theatre safety. Three lecture hours a week. Credit: Three hours.

DNCE 4151. Advanced Modern Dance I. Advanced technique in modern dance technique and repertory. Prerequisite: Intermediate/Advanced Modern Dance II or permission of instructor. Four and one-half laboratory hours a week. Credit: One hour. May be repeated for additional credit.

DNCE 4161. Advanced Modern Dance II. Continuation and progression of Advanced Modern Dance I. Prerequisite: Advanced Modern Dance I or permission of instructor. Four and one-half laboratory hours a week. Credit: One hour. May be repeated for additional credit.

DNCE 4182. Concert Choreography. Conceptualization, realization, direction, and production of choreographic works for formal and informal venues. Prerequisite: DNCE 1191, DNCE 3292 or equivalent. Six studio hours a week. Credit: Two hours. May be repeated for additional credit.

DNCE 4243. Form and Meaning in Children's Dance. Origins of form and meaning in children's dance and conceptions of the world as reflected in the expressive dance forms of children. Emphasis on critical and creative thinking, the communication of ideas through dance, and the investigation of movement as an expressive symbol system. Exploration of frameworks for integrating dance with other ways of knowing. Three lecture hours a week. Credit: Three hours.

***DNCE 4383. Performing Arts in American Popular Culture.** Performing Arts in American popular culture with emphasis on theatre, technology and the media arts. Appropriate for all majors. Three lecture hours a week. Credit: Three hours.

DNCE 4393. Contemporary Repertory and Issues in Performance & Choreography. Critical analysis of trends in contemporary dance through the process of learning, analyzing and performing selected repertory. Prerequisite: Level II Technique. Two lecture hours and two studio hours a week. Credit: Three hours.

DNCE 4911. Independent Study. Directed study of selected problems such as choreography of a suite of original dances or development and execution of plans for lighting, stage decor, and costumes. Credit: One hour.

DNCE 4913. Independent Study. Directed study of selected problems such as choreography of a suite of original dances or development and execution of plans for lighting, stage decor, and costumes. Credit: Three hours.

Graduate Courses

Please refer to the Graduate Catalog or the department website for information about our graduate courses.

*Satisfies core requirement for visual/performing arts.

DRAMA PROGRAM

Program Director: Sharon Benge, Professor

Location: Redbud Theater Complex 228

Telephone: (940) 898-2518

Telefax: (940) 898-2655

E-Mail: sbenge@TWU.EDU

www.twu.edu/drama

*Faculty: Professor S. Benge; Assistant Professors P. Bynane, R. Gorman, S. Young;
Technical Director J. Drouin.*

The School of the Arts offers programs leading to the Bachelor of Arts degree in drama. Course work available in the areas of acting/directing, design/production, and musical theatre permits a student to develop a program of study which focuses attention on the desired area as well as on the relationship of all theatrical elements to the whole production process.

Essential to a complete course of study in the theatre is the student's opportunity to work as performer and technician in the TWU Theatre season. Studio productions are directed and designed by advanced drama students. The practical processes of theatre production as well as academic study are stressed in order to give students a broad and diverse theatre background.

Course requirements for a drama major and a drama minor follow under the degree plans of study. Students seeking certification in theatre arts on the secondary level should follow the requirements listed under Bachelor of Arts with Teaching Certification in Drama.

The drama division develops well-rounded theatre artists who have the ability to function creatively and skillfully in a variety of theatre situations. Committed to top quality theatre performance and excellence in the classroom, the program provides practical as well as academic training for students pursuing careers in professional and educational theatre.

Bachelor of Arts Degree — Drama (120 hours)

The University-wide general requirements for the Bachelor of Arts degree are listed in the Academic Information section of this catalog.

Drama Core curriculum required of all majors - 47 hours

- DRAM 1312. Rehearsal and Production I
- DRAM 1321. Script Reading (two hours)
- DRAM 2433. Theatrical Makeup
- DRAM 2451. Performance I
- DRAM 2461. Performance II*
- DRAM 2471. Movement for the Performer I*
- DRAM 3421. Drafting**
- DRAM 3422. Stagecraft I**
- DRAM 3432. Stagecraft II: Scene Painting for the Stage
- DRAM 3473. The Theatre and Its Drama-Before 1715
- DRAM 3483. The Theatre and Its Drama-After 1715
- DRAM 3523. Play Directing
- DRAM 4412. Rehearsal and Production II*
- DRAM 4413. Stage Design
- DRAM 4903. Special Topics: Summer Stock Company (six hours)

* Students must enroll concurrently in DRAM 2461 and DRAM 2471.

** Students must enroll concurrently in DRAM 3421 and DRAM 3422.

Drama Major Rehearsal and Production Requirement

*Drama majors must enroll in DRAM 1312 or 4412 each semester of full-time enrollment. Transfer students must complete eight credit hours in DRAM 4412.

Drama elective possibilities - 13 hours to be selected from the following:

- DRAM 3103. Gender, Theatre, and Performance
- DRAM 3451. Advanced Acting I
- DRAM 3461. Stage Management
- DRAM 3471. Advanced Acting II
- DRAM 3481. Movement for the Performer II
- DRAM 3493. Theatre Speech
- DRAM 4413. Stage Design (repeatable for up to six hours of credit)
- DRAM 4423. Stage Lighting
- DRAM 4472. Sound Design and Technology
- DRAM 4513. Characterization
- DRAM 4523. Audition for Stage and Camera
- DRAM 4901. Selected Topics
- DRAM 4903. Selected Topics
- DRAM 4911. Independent Studies
- DRAM 4913. Independent Studies

Additional course work required for B.A. in Drama:

Foreign Language: Six hours of the same language.

Literature: Six additional hours.

Related Studies or Minor: 18 hours (six advanced) of course work selected in consultation with the student's advisor to support the course of study chosen within Programs in Drama. Courses in Related Studies may be chosen from more than one discipline.

Admission to Drama Program

Initial acceptance into the Drama Program is provisional during the first year of residency. Consult the "Drama Student Handbook" for complete information with regards to unconditional admission, application procedures, and other drama major requirements.

FIRST YEAR

First Semester	Second Semester
DRAM 1312 Rehearsal and Production .2	DRAM 1312 Rehearsal and Performance .2
DRAM 1321 Script Reading 1	DRAM 1321 Script Reading 1
DRAM 2451 Performance I..... 1	DRAM 2461 Performance II..... 1
DRAM 3422 Stagecraft I..... 2	DRAM 2471 Movement I 1
DRAM 3421 Drafting 1	DRAM 3432 Stagecraft II 2
ENG 1013 Composition I 3	ENG 1023 Composition II..... 3
MATH 1013 Quantitative Literacy 3	Natural Science (core) 3
Natural Science (core)..... 3	Math (core) 3
Total Hours 16	Total Hours 16

SECOND YEAR

First Semester	Second Semester
DRAM 1312 Rehearsal and Production .2	DRAM 1312 Rehearsal and Production....2
DRAM 2433 Theatrical Makeup 3	DRAM 3483 Theatre After 1715.....3
DRAM 3473 Theatre Before 1715..... 3	DRAM Elective 1
Humanities (core)..... 3	HIST 1023 U.S. History 1865 to Present ..3
HIST 1013 U.S. History to 1865..... 3	GOV 2023 Texas Government3
GOV 2013 American Government 3	Social/Behavioral Science (core)3
Total Hours 17	Total Hours 15

THIRD YEAR

First Semester	Second Semester
DRAM 4412 Rehearsal and Production .2	DRAM 4412 Rehearsal and Production....2
DRAM 4413 Stage Design..... 3	DRAM 3523 Directing3
DRAM 4903 Summer Stock..... 3	DRAM 4903 Summer Stock3
Related Studies: CSCI 1403*..... 3	Related Studies: Literature3
DRAM Elective 3	DRAM 3493 Theatre Speech3
Total Hours 14	Total Hours 14

FOURTH YEAR

First Semester	Second Semester
DRAM 4412 Rehearsal and Production .2	DRAM 4412 Rehearsal and Production....2
DRAM Elective 3	DRAM Elective3
Related Studies: Foreign Language 3	DRAM Elective3
Related Studies: Literature..... 3	Related Studies: Foreign Language.....3
Multicultural Women's Studies (core) ... 3	Visual/Perf. Arts (core).....3
Total Hours 14	Total Hours 14

* Related studies or Test Equivalent

All students must complete six credit hours in approved Global Perspectives courses, either in the core or major courses (graduation requirement).

Drama Minor

Students selecting drama as an academic minor will take the following:

DRAM 1312. Rehearsal and Production I

DRAM 1321. Script Reading

DRAM 2433. Theatrical Makeup

DRAM 2451. Performance I

DRAM 2461. Performance II

DRAM 2471. Movement for the Performer I

DRAM 2493. Understanding the Arts-Drama

DRAM 3421. Drafting

DRAM 3422. Stagecraft I

DRAM 3432. Stagecraft II: Scene Painting for the Stage

DRAM 3523. Play Directing

Teaching Certification in Theatre Arts (120 hours)

Although secondary education is not a focus area of Programs in Drama, a student may earn Teaching Certification in Theatre Arts. Any student interested in pursuing Teaching Certification is encouraged to consult the certification program as described in this catalogue under the College of Professional Education. For students pursuing Theatre Arts as a Second Teaching Field, the following courses are required.

Required Drama Courses

DRAM 1312. Rehearsal and Production I

DRAM 1321. Script Reading (two hours)

DRAM 2433. Stage Makeup

DRAM 2451. Performance I

DRAM 2461. Performance II

DRAM 2471. Movement for the Performer I

DRAM 3421. Drafting

DRAM 3422. Stagecraft I

DRAM 3432. Stagecraft II: Scene Painting for the Stage

DRAM 3461. Stage Management

DRAM 3473. Theatre and Its Drama: Before 1715

DRAM 3483. Theatre and Its Drama: Since 1715

DRAM 3523. Play Directing

DRAM 4413. Stage Design

(six hours: three in costume and three in scenic)

DRAM 4423. Stage Lighting

Required Education Courses

- EDUC 2003. Schools and Society
- EDUC 3003. Learning Theory and Development
- EDUC 3482. Diverse Learners and Technology Integration
- READ 3013. Literacy and Learning
- EDUC 4113. Instruction and Assessment
- EDUC 4243. Class Environment Mgmt.
- EDUC 4236. Student Teaching - Theater Arts

Proposed changes in areas and levels of Texas teaching certificates by the State Board of Educator Certification (SBEC) will result in major changes in teacher education programs throughout the State. Information in this catalog reflects current programs.

Drama Undergraduate Courses

DRAM 1312. Rehearsal and Production I. (DRAM 1220, 1221) Exploration of theatre process; practical, hands-on experience in performance, crew work, and all aspects of technical production associated with the TWU Theatre season. May repeat for credit. Eight laboratory hours a week (averaged over the semester). Credit: Two hours.

DRAM 1321. Script Reading. Survey of selected examples of dramatic literature. Students required to read one assigned play per week and attend one weekly discussion class. Credit: One hour; may be repeated for up to two credit hours.

DRAM 2433. Theatrical Makeup. (DRAM 1341) Design and application of makeup for the stage; areas explored include theory, color, character analysis, materials, old age, three-dimensional, and fantasy makeup. Three lecture/demonstration hours a week plus crew assignment. Credit: Three hours.

DRAM 2451. Performance I. Theory and practice of performance; introductory laboratory course designed to build confidence, self-expression, and imagination in any performance situation through the use of improvisation. Three laboratory hours a week. Credit: One hour.

DRAM 2461. Performance II. Exploration of self-expression through role playing; personal attention given to meet individual performance objectives. To be taken concurrently with DRAM 2471. Three laboratory hours a week. Credit: One hour.

DRAM 2471. Movement for the Performer I. Exploration of movement as a vehicle for self-knowledge, understanding of others, and communication; development of movement mastery to facilitate an articulate and expressive body instrument. To be taken concurrently with DRAM 2461 or by permission of instructor. Three laboratory hours a week. Credit: One hour.

***DRAM 2493. Understanding the Arts—Drama.** (DRAM 1310) An overview of the process and performance of the theatrical experience. Designed as an introduction for the non-major. Three lecture hours a week. Credit: Three hours.

DRAM 3003. Arts for Children. Acquaints education majors with goals, methodology and best practices in teaching the arts in elementary and middle school. Discusses value of the arts for children and procedures for using art, dance, drama and music as tools to promote learning. Fulfills requirement for teacher certification. Three lecture hours a week. Credit: Three hours.

****DRAM3103. Gender, Theatre and Performance.** Women's historical roles as playwrights, performers, producers, administrators; multicultural representation of women in drama; theater as site of resistance and activism for women; effects of performance on women's roles in theater and culture; theater as investigation of gender roles. Three lecture hours a week. Credit: Three hours.

DRAM 3421. Drafting for the Stage. An introduction to technical drafting for the theatre focusing on the standard equipment, symbols, and mechanical drawing techniques used to communicate scenery, property, and lighting designs in theatrical production. Must be concurrently enrolled in DRAM 3422 or by permission of instructor. One and a half lecture hours a week. Credit: One hour.

DRAM 3422. Stagecraft I. Introduction to styles of theatrical design and its needs. Lecture/laboratory course to include scenery construction techniques and materials, tools, organization, and theatre safety. Two lecture and two laboratory hours a week. Credit: Two hours.

DRAM 3432. Stagecraft II: Scene Painting for the Stage. A study of painting techniques for theatrical scenery to include exploration of color theory, color media, paint equipment and methods of application. To be taken concurrently with DRAM 1312 or DRAM 4412. Prerequisite: DRAM 3422 or permission of the instructor. Two lecture and two laboratory hours a week. Credit: Two hours.

DRAM 3451. Advanced Acting I. Advanced performance course designed to develop acting techniques through monologue and scene study. Repeatable for credit. To be taken concurrently with DRAM 3481. Prerequisites: DRAM 2451, 2461, 2471 or by permission of the instructor. Three laboratory hours a week. Credit: One hour.

DRAM 3461. Stage Management. Explores the backstage organization involved in a theatrical production as related to educational and professional theatres. One lecture hour a week. Credit: One hour.

DRAM 3471. Advanced Acting II. Emphasis on styles of acting. Monologues and scenes from traditional dramatic literature to be performed. Prerequisites: DRAM 2451, 2461, 2471, 3451 or by permission of the instructor. Three laboratory hours a week. Credit: One hour.

DRAM 3473. (DRAM 2361) The Theatre and Its Drama: Before 1715. A history of the theatre from ancient Greece through the English restoration with a careful study of the plays written during each period. Three lecture hours a week. Prerequisite: Junior standing. Credit: Three hours.

*Satisfies core requirement for visual/performing arts.

** Satisfies visual/performing arts and multicultural women's studies core requirement.

DRAM 3481. Movement for the Performer II. Role development with emphasis on physical projection, spatial awareness, and period movement; development and refinement of movement mastery. To be taken concurrently with DRAM 3451 or by permission of the instructor. Prerequisite: DRAM 2471 or by permission of the instructor. Three laboratory hours a week. Credit: One hour.

DRAM 3483. (DRAM 2362) The Theatre and Its Drama: Since 1715. A history of the theatre from the Eighteenth Century to the present with a careful study of the plays written during each period. Three lecture hours a week. Prerequisite: Junior standing. Credit: Three hours.

***DRAM 3493. (DRAM 2336) Theatre Speech.** Instruction and laboratory study of the mechanics of speech for the actor; basic techniques of breath control, support, speech sounds, articulation, and speech melody for the stage. Three lecture hours a week. Credit: Three hours.

DRAM 3523. Play Directing. Theory and practice of directing; course covers the fundamentals of composition, movement, stage business, and rehearsal planning. Prerequisites: DRAM 2451, 2461, 3422, 3432. Two lecture, four laboratory hours a week. Credit: Three hours.

DRAM 3913. Dance/Music/Theatre Improvisation. Exploration of the integration of movement, sound, and text through the use of improvisation and the development of collaborative performance works. One lecture and three laboratory hours a week. Credit: Three hours. May be repeated for additional credit.

DRAM 3923. Music Theatre: Form-in-the-Making. Artistic process of creating music theatre from the perspective of the choreographer, composer, and playwright. Prerequisite: DNCE 3913, DRAM 3913, or MU 3913 or permission of instructor. Six laboratory hours a week. Credit: Three hours. May be repeated for additional credit.

DRAM 4412. (DRAM 2220) Rehearsal and Production II. Advanced laboratory course designed to explore the process of theatre; practical, hands-on experience in performance, crew work, and all aspects of technical production associated with the TWU Theatre season. Repeatable for credit. Eight laboratory hours a week (averaged over the semester). Credit: Two hours.

DRAM 4413. Stage Design. Problems in design for theatrical productions; visual communication in the theatre. Specific course content to vary per semester as the principles of costume, scenery, lighting, or makeup design are explored. Prerequisite: DRAM 3421, 3422 and 3432 or consent of instructor. Two lecture, four studio hours a week. Credit: Three hours, may be repeated for up to nine hours.

DRAM 4423. Stage Lighting. Mechanics and art of lighting for the stage; studies include nature of light and optics, color, instrumentation, dimmers, and elementary lighting design; practical application with TWU Theatre productions. Three lecture hours a week plus a crew assignment. Credit: Three hours.

DRAM 4472. Sound Design and Technology. Mechanics and art of sound production for the stage. Studies include the nature of sound and acoustics; equipment for recording, reproduction, and reinforcement of sound in the theatre;

*Satisfies core requirement for oral communication.

elementary design. Two lecture hours per week. Credit: Two hours.

DRAM 4513. Characterization. An exploration of physical, vocal, sensory, and analytical techniques for creating characterizations for all dramatic genres. Emphasis is on research, acquisition of new skills and analytical systems for character development. Two lecture and two laboratory hours per week. Credit: Three hours.

DRAM 4523. Audition for Stage and Camera. Exploration of acting techniques for stage and camera auditions. Emphasis is on prepared auditions, cold readings and preparation of visual and written materials. Two lecture and two laboratory hours per week. Credit: Three hours.

DRAM 4901. Selected Topics. An organized class for the study of particular areas or subjects not offered in another scheduled course. One lecture hour a week. Credit: One hour.

DRAM 4903. Selected Topics. An organized class for the study of particular areas or subjects not offered in another scheduled course. Three lecture hours a week. Credit: Three hours.

DRAM 4911. Independent Study. Individual supervisory and tutorial instruction; content may include directed readings, a research or design project, or other similar studies. Credit: One hour.

DRAM 4913. Independent Study. Individual supervisory and tutorial instruction; content may include directed readings, a research or design project, or other similar studies. Credit: Three hours.

Graduate Courses

Please refer to the Graduate Catalog or the department website for information about our graduate courses.

MUSIC PROGRAM

Chair: Pamela Youngblood, Professor

Location: MUS 114

Telephone: (940) 898-2500

Telefax: (940) 898-2494

E-Mail: pyoungblood@twu.edu

www.twu.edu/music

Faculty: Professors J. Chenevert, N. Cohen, N. Hadsell, P. Youngblood; Associate Professor, R. Shuster; Assistant Professors V. Baker, G. Evans, J. Jensen, J. Pinson.

The School of the Arts offers programs leading to the Bachelor of Arts, and the Master of Arts degrees in music. An undergraduate program may be selected in music therapy, music performance, liberal arts music, or music education leading to teacher certification in music.

For a detailed statement regarding music policy, the student should consult the Music Major Handbook, available from the departmental office.

The music program challenges students to seek their highest level of scholarship and musicianship, whether as performing artists, educators, or therapists. Understanding the impact of music in society, the department strives to build the student's awareness of the influence of music upon personal expression, creativity, artistry, and health in our society.

Texas Woman's University was the first institution of higher education in Texas to offer a degree in music. The department is housed in a spacious, well-equipped, and historic building. The Department of Music is a member in full standing of the National Association of Schools of Music, is a member of the Texas Association of Music Schools, and observes the Field of Study Curriculum from the Texas Higher Education Coordinating Board.

Applied Music Areas

Private lessons are offered for voice, piano, guitar, organ, and orchestral instruments. Registration for one credit connotes one 30-minute weekly lesson, and registration for two credits connotes a 1-hour weekly lesson.

Registration for private lessons by non-music majors, and by music majors on a secondary instrument, requires permission of the department chair and studio placement by the appropriate faculty. Such registrations are limited to 1-credit.

Registration for private lessons does not guarantee studio placement.

Consult the semester time schedule and the Chair for specific course numbers and code assignments. Students must submit an accurate schedule of their classes for the current semester to the Department Office by the second day of classes. Failure to do so may result in course deletion for that term. Appropriate forms are available in the Department Office.

Admission Requirements

New music students must complete a placement audition no later than the first week of classes, unless they have successfully completed a music scholarship audition prior to enrollment. New students must also complete a music fundamentals and theory assessment, administered at the annual music scholarship audition in February and at the summer orientation sessions. The piano proficiency requirement is satisfied by successful completion of the four-semester sequence of Keyboard Musicianship classes - MU 1021, 1031, 2061, and 2081 - required of all undergraduate music majors whose primary instrument is anything other than piano. Students entering with previous piano experience may be waived from one or more of these classes dependent on results of a piano placement exam. Transfer students will be placed according to prior piano instruction as shown on their transcripts. Students transferring in the equivalent of the entire Keyboard Musicianship sequence (I – IV) are required to take the piano proficiency exam at TWU to demonstrate piano proficiency, (or, in consultation with the student's advisor, successfully complete MU 2081 Keyboard Musicianship IV at TWU.) Students with piano as primary instrument must pass the piano proficiency exam or complete MU 2081 at TWU. Music students also must complete a petition for full admission to the music major following completion of one semester at TWU for full-time students, or 12 credit hours for part-time students. Requirements for petition approval include successful completion of a performance jury on the primary instrument. Transfer students must complete a music theory placement exam if transferring in an entire two-year undergraduate theory curriculum, and/or a music history placement exam if transferring in an entire one-year undergraduate history curriculum. See the Music Major Handbook for further details.

Core Courses Required for all Music Degrees

The following basic courses are required for all music degrees:

MU 1521/1523/1531/1533. Music Theory I, II, Aural Skills I, II

MU 2521/2523/2531/2533. Music Theory III, IV, Aural Skills III, IV

MU 2713. Understanding the Arts - Music

MU 3313-3323. History of Music I and II

MU 3713. Music and World Cultures

Additional requirements are listed with each of the specific degrees which follow.

Ensemble Requirements

Current ensemble offerings include the Concert Choir, Mixed Vocal Ensemble, Opera Ensemble, Wind Symphony, Jazz Ensemble, Flute Choir, and Chamber Ensembles of like and mixed instruments. Full time undergraduate music majors are

required to be in Concert Choir, Wind Ensemble, or String (Chamber) Ensemble corresponding to their primary instrument each semester that they are enrolled. (Full-time undergraduate male vocalists are required to be in the Mixed Vocal Ensemble each semester.) The only exception to this policy involves students who have piano, organ, or guitar as primary instrument. These students are required to be in Concert Choir (or Mixed Vocal Ensemble for male students), Wind Ensemble, or String Ensemble for 4 semesters, and consult with their advisor concerning the remaining ensemble requirements. See the Music Major Handbook for further details.

Performance Examinations

All students taking applied music lessons as degree candidates in music, or music minors, will take a final jury exam each semester. Students who have given a full recital, including lecture recitals, during the semester are not required to take the jury exam.

Recital Attendance Requirement

During each semester of study, except during student teaching or internship semesters, undergraduate music majors are required to attend a minimum of ten (or five for part-time students) music recitals or concerts plus a TWU dance, drama, and visual art event (one each) as specified in the Music Major Handbook.

Lesson Fees

Information on fees for private lessons in music will be found in the schedule of classes.

Bachelor of Arts in Music – Liberal Arts (120 hours)

See website for course work: www.twu.edu/music

Bachelor of Arts in Music – Teacher Certification (134 hours)

All-level Teaching Certificate in Music

General Description

The University general requirements for the baccalaureate degree are listed earlier in this catalog. See the College of Professional Education section of this catalog for options.

Music Courses (in addition to music core, p.144)

- MU 1021, 1031, 2061, 2081. Keyboard Musicianship I, II, III, IV
- MU 2202 Introduction to Music Education
- MU 3432 Secondary Music I
- MU 3542 Conducting I
- MU 3601 Advanced Conducting
- MU 3602 Secondary Methods and Literature
- MU 3703 Women in Music
- MU 4512 Instrumental Arranging

Vocal Emphasis

MU 3052 Instr. Techs. and Pedagogy
MU 3442 Eng./Ital./Lat. Diction
MU 3452 Fr./Ger. Diction
MU 3492 Vocal Pedagogy
MU 4911 Ind. Study (lab for MU 3052)

Instrumental Emphasis

MU 3001 Brass Techs.
MU 3011 Percussion Techs.
MU 3031 String Techs.
MU 3041 Woodwind Techs.
MU 3502 Voice Class

Band track (Instr. emph.)

MU 3441 Marching Band Practicum (x2)
MU 3571 Jazz Band Ens.

String track (Instr. emph.)

MU 3581 Chamber Music (x3)

Piano track (Instr. emph.)

MU 4911 Ind. St. (accomp.) or MU 3581 Chamber Music (x3)

Other Courses

READ 3013 Lit. & Lrn. Across Curric.
EDUC 2003 Schools and Society
EDUC 3003 Lrng. Theory and Dev.
EDUC 3482 Tchg. Div. Lrn. Tch. Integ.
EDUC 4113 Instr. and Assess.
EDUC 4243 Classrm. Env. & Mgmnt.
EDUC 4826 Student Teaching

Bachelor of Arts in Music – Performance (120 hours)

General Description

The University-wide general requirements for the baccalaureate degree are listed earlier in this catalog.

**Music courses common to music performance in voice, piano, or instrumental)
(in addition to music core, p. 144)**

MU 3542 Conducting
MU 4522 Form & Analysis
MU 4723 17th & 18th Century Counterpoint
Additional courses: Six hours of a foreign language.

Additional Music Courses specific to music performance - voice

MU 1021, 1031, 2061, 2081 Keyboard Musicianship I, I, III, IV

MU 3402 Vocal Lit.
 MU 3442 Eng., It., Lat., Diction
 MU 3452 Fr., Gr. Diction
 MU 3492 Vocal Pedagogy
 Applied Music (18 hrs.)
 Music Ensembles (10 hrs. to include 2 hrs [2 semesters] of opera ensemble)

Additional Music Courses specific to music performance - piano

MU 3473 Piano Literature
 MU 3483 Piano Pedagogy
 Applied Music (20 hrs.)
 Music Ensembles (10 hrs.)
 Music Electives (4 hrs.)

Additional Music Courses specific to music performance - instrumental

MU 1021, 1031, 2061, 2081 Keyboard Musicianship I, I, III, IV
 MU 4512 Instrumental Arranging
 MU 4903 Pedagogy/Literature
 Applied Music (20 hrs.)
 Music Ensembles (10 hrs.)
 Music Electives (1 hr.)

Bachelor of Arts in Music - performance track (120 hours)

voice = v; piano = p; instrumental = i

FIRST YEAR

First Semester				Second Semester			
	v	p	i		v	p	i
MU 1021 Keyboard Musicianship I	1	1	1	MU 1031 Keyboard Musicianship II	1	1	1
MU 1521 Aural Skills I	1	1	1	MU 1531 Aural Skills II	1	1	1
MU 1523 Music Theory I	3	3	3	MU 1533 Music Theory II	3	3	3
MU applied lessons	2	2	2	MU applied lessons	2	2	2
MU ensemble	1	1	1	MU ensemble	1	1	1
MU electives		1		MU electives		1	
HIST 1013	3	3	3	HIST 1023	3	3	3
SOCI 1013 (SOC SCI core & glob pers)	3	3	3				
Computer Literacy exam completed							
Total Hours	14			Total Hours	14		

SECOND YEAR

Third Semester				Fourth Semester			
	v	p	i		v	p	i
MU 2061 Keyboard Musicianship III	1	1	1	MU 2081 Keyboard Musicianship IV	1	1	1
MU 2521 Aural Skills III	1	1	1	MU 2531 Aural Skills IV	1	1	1
MU 2523 Music Theory III	3	3	3	MU 2533 Music Theory IV (oral com)	3	3	3
MU applied lessons	2	2	2	MU applied lessons	2	2	2
MU ensemble	1	1	1	MU ensemble	1	1	1
MU electives		1		MU electives		1	
ENG 1013	3	3	3	ENG 1023	3	3	3
GOV 2013	3	3	3	GOV 2023	3	3	3
Total Hours	14			Total Hours	14		

THIRD YEAR

Fifth Semester			Sixth Semester		
	v	p	i		v p i
MU 3313 Music History I	3	3	3	MU 3323 Music History II (oral com)	3 3 3
MU applied lessons	2	3	3	MU applied lessons	2 3 3
MU ensemble	1	1	1	MU ensemble	1 1 2
MATH 1013 (quant. lit.)	3	3	3	MU 3542 Conducting I	2 2 2
MU 3703 Women in Music	3	3	3	MATH core elective	3 3 3
(core MS/WS)				MU 3462 French German Diction	2
MU 3452 Engl. Ital. Latin Diction	2			MU 3483 Piano Pedagogy	3
MU 3473 Piano Literature		3		MU 4512 Arranging	2
MU 4903 Pedagogy/Literature			3	MU 3402 Vocal Literature	2
MU 3492 Vocal Pedagogy	2				
Total Hours	16			Total Hours	15

FOURTH YEAR

Seventh Semester			Eighth Semester		
	v	p	i		v p i
HUM (Lit./Phil) core elective	3	3	3	MU 3713 Music & World Cult (Gl.pers)	3 3 3
Foreign Language	3	3	3	Foreign Language	3 3 3
SCIENCE core elective	3	3	3	SCIENCE core elective	3 3 3
MU 4723 Counterpoint	3	3	3	MU 4522 Form and Analysis	2 2 2
MU applied lessons	3	3	3	MU ensemble	2 2 1
MU ensemble	2	2	2	MU electives	1
				MU applied lessons	3 3 3
Total Hours	17			Total Hours	16

All students must complete six credit hours in approved Global Perspectives courses, either in the core or major courses (graduation requirement).

Bachelor of Arts in Music – Music Therapy Track

General Description

The music therapy program, approved by the American Music Therapy Association, is competency-based providing students with opportunities to build competencies in a number of areas required for the general practice of music therapy. Students must demonstrate mastery of all required competencies, as well as required coursework, prior to graduation. Competency requirements are outlined in the Music Major Handbook available from the departmental office.

The University general requirements for the baccalaureate degree are listed earlier in this catalog. Music therapy students take PSY 1013, MATH 1703, and BIOL 1011 and 1012 and MU 3713 as part of the core curriculum. They also take one approved DNCE course (1021, 1051, or 1071), six additional credits in psychology, and three hours in special education.

Music Courses (in addition to the music core, p. 144)

- MU Voice. (2 credits)
- MU Guitar. (2 credits)
- MU 1021, 1031, 2061, 2081, Keyboard Musicianship I, II, III, IV
- MU 2502. Basic Observation and Assessment in Music Therapy
- MU 2512. Introduction to Music Therapy
- MU 2522. Music Skills for Therapy, Recreation and Special Education
- MU 3011, 3021. Percussion Techniques, I, II
- MU 3501. Advanced Practicum (4 semester hrs.)
- MU 3511, 4611 Music Therapy Documentation I, II
- MU 3542. Conducting I
- MU 4512. Instrumental Arranging
- MU 4513. Music in Therapy I
- MU 4523. Music in Therapy II
- MU 4533. Professional Ethics, Clinical Techniques, and Reimbursement in Music Therapy
- Applied Music (principal instrument performance skills)
(12 hrs.—4 at the 4000 level)
- Ensembles (variety of large and small, six semesters minimum)
- MU 4651/4661. Internship in Music Therapy I, II*

Additional Courses in Psychology/Special Education

- EDSP 4203. Learners with Exceptionalities
- PSY 1603. Developmental Psychology
- PSY 2513. Abnormal Psychology

Before students may register for internship they must have met the following requisites:

1. Satisfied music departmental recital attendance requirements.
2. Completed all academic courses, including practica (Refer to Music Major handbook for criteria for admission to different levels of practicum).
3. Achieved a cumulative grade-point average of 2.75 or better.
4. Achieved a grade-point average of 2.75 in music therapy courses, including practica.
5. Received no letter grade below C in music or music therapy courses.
6. Shown evidence of emotional stability and good physical health.
7. Met university requirements for liability insurance and immunizations.
8. Met all specific internship admission requirements, including but not limited to requirements for liability insurance, drug testing, immunizations, criminal background, personal medical insurance, and/or transportation. Expenses for any required special training, drug testing, background checks, or other special requirements specific to an internship site are the responsibility of the student. Acceptance to an

See department website for degree plan.

internship does not guarantee that the legal agreements between the university and the facility can be negotiated. The student may not begin the internship until all legal agreements have been finalized. See academic advisor for details related to a specific internship site.

Graduate students wishing to work toward certification must complete the music therapy equivalency program, which may be done at the same time the student completes some graduate courses toward the Master's Degree. Post-baccalaureate students pursuing the equivalency program, but not the Master's Degree, must complete the requirements for a second bachelor's degree.

Testing for drugs, specific immunizations in addition to those required by TWU, proof of personal medical insurance, and/or passing a criminal background check may be required by certain facilities associated with the required clinical work. If students are unable to be cleared on any of these requirements, they may not be eligible to continue in the program.

Certification as a Music Therapist (MT-BC) is achieved by passing a national examination administered by the Certification Board for Music Therapists. This exam may be undertaken only after all requirements, including internship, have been completed. However, completion of the program does not guarantee eligibility to take the board certification exam. Questions regarding specific criminal background and its possible effects on eligibility for board certification should be addressed directly to the Certification Board for Music Therapists.

Music Minor

18 semester hours must include:

MU 2713. Understanding the Arts-Music

MU 3323. Music History II, or MU 3703. Women in Music, or MU 3713. Music in World Cultures

MU 1521/1523. Music Theory I and Aural Skills I

MU 1531/1533. Music Theory II and Aural Skills II

4 hours of ensembles and/or applied music.

Music Undergraduate Courses

Private music lessons are offered as published in the class schedule each semester. Students must submit an accurate schedule of their classes for the current semester to the department office by the second day of classes. Music majors register according to primary instrument or voice. Permission from the department chair and studio placement by the appropriate faculty are required for non-music majors and for music majors on a secondary instrument. Non-music-major and secondary instrument registrations are limited to 1 credit, the course number for which ends with a "1" rather than a "2" as in the examples provided below, for ex., MU 2031 Piano. 1-credit lessons connote a 30-minute lesson per week, whereas 2-credit lessons connote a 1-hour lesson per week.

MU 2002. Woodwinds— flute, oboe, clarinet bassoon, saxophone

MU 2012. Organ

MU 2022. Brass— trumpet, baritone, trombone, French horn, tuba, euphonium

MU 2032. Piano

MU 2042. Strings— violin, viola, cello, string bass, harp

MU 2092. Voice

MU 2392. Percussion

MU 2432. Guitar

Beginning and Intermediate private music study. Prerequisite: Permission of instructor. Permission of department chair for non-music majors and music majors on a secondadry instrument. One hour a week. May be repeated for credit. Two hours.

MU 4002. Woodwinds— flute, oboe, clarinet, bassoon, saxophone

MU 4012. Organ

MU 4022. Brass— trumpet, baritone, trombone, French horn, tuba, euphonium

MU 4032. Piano

MU 4042. Strings— violin, viola, cello, string bass, harp

MU 4092. Voice

MU 4392. Percussion

MU 4432. Guitar

Advanced private music study. Prerequisite: Permission of instructor. Permission of department chair for non-music majors and music majors on a secondary instrument. One hour a week. May be repeated for credit. Credit: Two hours.

MU 1021. (MUSI 1181) Keyboard Musicianship I. Group instruction in beginning piano for music majors. Emphasizes acquisition of basic keyboard skills and chords, sight-reading, transposition, harmonization, and improvisation. One lecture hour and one laboratory hour per week. Credit: One hour.

MU 1031. (MUSI 1182) Keyboard Musicianship II. Group instruction in beginning piano. Continuation of basic keyboard skills, scales, major and minor chords, sight-reading, transposition, and improvisation. Prerequisite MU 1021. One lecture hour and one laboratory hour per week. Credit: One hour.

MU 1521. (MUSI 1116) Aural Skills I. Sight-singing and ear training for music reading and analysis. Concurrent enrollment with MU 1523. Two laboratory hours a week. Credit: One hour.

MU 1523. (MUSI 1311) Music Theory I. Basic elements of music and music writing, beginning harmonic, melodic, and rhythmic principles. Concurrent enrollment with MU 1521. Three lecture hours a week. Credit: Three hours.

MU 1531. (MUSI 1117) Aural Skills II. Sight-singing and ear training for music reading and analysis. Concurrent enrollment with MU 1533. Two laboratory hours a week. Credit: One hour.

MU 1533. (MUSI 1312) Music Theory II. Continuation of MU 1523 with emphasis on part-writing procedures within the diatonic system. Concurrent enrollment with MU 1531. Three lecture hours a week. Credit: Three hours.

MU 2061. (MUSI 2181) Keyboard Musicianship III. Group instruction in piano. Continuation of basic keyboard skills, sight-reading of open choral and instrumental scores, and instrumental transposition. Prerequisite: MU 1031. One lecture hour and one laboratory hour per week. Credit: One hour.

MU 2081. (MUSI 2182) Keyboard Musicianship IV. Group instruction in piano. Continuation of basic keyboard skills, playing of open choral and instrumental scores, transposition, modulation, harmonization involving chromatic harmony, and improvisation. Prerequisite: MU 2061. One lecture and one laboratory hour a week. Credit: One hour.

MU 2202. Introduction to Music Education. Incorporation of learning styles, assessment tools and lesson planning, technology, diversity, and behavior management specific to the music classroom. State music contest (UIL) preparation, professional organizations, and historical development and philosophy of music education. Two lecture hours a week. Credit: Two hours.

MU 2502. Basic Observation and Measurement in Music Therapy. Basic skills in clinical observation, data collection, and assessment for music therapy; introduction to therapeutic domains and professional ethics. Observation of clinical music therapy sessions. Two lecture hours a week. Credit: Two hours.

MU 2512. Introduction to Music Therapy. History, principles, and methods governing music therapy practice; characteristics and needs of client populations; the role of music therapists in treatment teams and professional organizations. Two lecture hours a week. Credit: Two hours.

MU 2521. (MUSI 2116) Aural Skills III. Sight-singing and ear training for music reading and analysis. Concurrent enrollment with MU 2523. Two laboratory hours a week. Credit: One hour.

MU 2522. Music Skills for Therapy, Recreation, and Special Education. Music techniques for therapeutic, recreational, and special education settings; functional use of nonsymphonic instruments; instrumental adaptations for individuals with special needs; clinical use of songleading skills. Two lecture hours a week. Credit: Two hours.

MU 2523. (MUSI 2311) Music Theory III. Detailed studies of music theory with emphasis on modulation and secondary harmony. Keyboard harmony, sight singing, and ear training. Concurrent enrollment with MU 2521. Three lecture hours a week. Credit: Three hours.

MU 2531. (MUSI 2117) Aural Skills IV. Sight-singing and ear training for music reading and analysis. Concurrent enrollment with MU 2533. Two laboratory hours a week. Credit: One hour.

****MU 2533. (MUSI 2312) Music Theory IV.** Continuation of MU 2523 with emphasis on altered and expanded harmonies and non-tonal practices. Concurrent enrollment with MU 2531. Three hours of lecture a week. Credit: Three hours.

*** **MU 2543. (MUSI 1310) History of Rock 'n' Roll Music.** Study of the origins of rock 'n' roll music in the mid-20th century in the U.S., including the influence and hybridization of earlier musical styles such as blues, gospel, country and popular, and its stylistic development in the U. S. and abroad to the present; sociological, cultural, and political impact of rock music and its role and function in society. Three lecture hours a week. Credit: Three hours.

***MU 2713. (MUSI 1306) Understanding the Arts - Music.** Listening techniques for the enjoyment of music through examples of various periods, styles, and forms; developing and increasing the cultural awareness of the student. Three lecture hours a week. Credit: Three hours.

*Satisfies core requirement for visual/performing arts.

** Satisfies core requirement for oral communication.

MU 3001. Brass Techniques. Applied study of trumpet, trombone, horn and tuba. Two lab hours a week. Credit: One hour.

MU 3011. Percussion Techniques I. Applied study of percussion. Two lab hours a week. Credit: One hour.

MU 3021. Percussion Techniques II. Applied study of non-symphonic and ethnic percussion instruments and improvisational percussion techniques. Two lab hours a week. Credit: One hour.

MU 3031. String Techniques. Applied study of violin, viola, cello and bass. Two lab hours a week. Credit: One hour.

MU 3041. Woodwind Techniques. Applied study of clarinet, flute, oboe, and bassoon. Two lab hours a week. Credit: One hour.

MU 3052. Instrumental Techniques and Pedagogy. Introduction to instruments for music educators. Rehearsal objectives, instructional techniques and materials for beginning band and orchestra; rehearsal management and organization; diagnostic skills for teaching performance fundamentals, and lab school field experience. Two lecture hours and one lab hour a week. Credit: Two hours.

MU 3302. Guitar Class. Fundamentals of functional guitar performance which include primary and secondary chords in eight keys, strumming and picking patterns, and techniques for accompanying singing. Two laboratory hours per week. Credit: Two hours.

MU 3313. Music History I. Survey of music history and literature from antiquity to the 1750s. Three lecture hours a week. Credit: Three hours.

****MU 3323. Music History II.** Continuation of MU 3313. Survey of music history and literature from 1750 to the present day. Three hours of lecture a week. Credit: Three hours.

MU 3402. Vocal Literature. A historic survey of standard vocal literature, specifically art songs from the Renaissance to the 20th century. Two lecture hours a week. Credit: Two hours.

MU 3432. Secondary Music I. Course will explore broad topics related to music programs in junior high/middle schools and high schools. Two lecture hours a week. Credit: Two hours.

MU 3441. Marching Band Practicum. Organization and management of marching bands and an examination of software designed for writing drills. Placement as marching band assistants in area high schools or college marching bands. Three lab hours a week. Credit: One hour.

MU 3442. English, Italian, and Latin Diction. Articulation and pronunciation competencies for singing in English, Italian, and Latin languages, focusing on sounds and symbols of the International Phonetic Alphabet and rules for singing diction. Two lecture hours a week. Credit: Two hours.

MU 3452. French and German Diction. Articulation and pronunciation competencies for singing in French and German languages, focusing on sounds and symbols of the International Phonetic Alphabet (IPA) and rules for singing diction. Prerequisite: Knowledge of the IPA. Two lecture hours a week. Credit: Two hours.

MU 3473. Piano Literature. Survey of piano literature from the Baroque through the present. Review of historical contexts, styles and analysis of traditional piano repertoire. Prerequisite: MU 2533 Music Theory IV. Three lecture hours a

**** Satisfies core requirement for oral communication.**

week. Credit: Three hours.

MU 3483. Piano Pedagogy. Introduction to piano teaching techniques. Review of practical teaching strategies, commonly used teaching methods, practice teaching, observation, and learning styles. Prerequisite: MU 2031 or MU 2032 Piano. Three lecture hours a week. Credit: Three hours.

MU 3492. Vocal Pedagogy. Discussion of general vocal problems in individuals and groups and investigation of various methods of overcoming these problems. Evaluation of good vocal technique. Special vocal problems of children and adolescents, in particular the boy's changing voice. Prerequisite: Permission of instructor. One lecture and one laboratory hour a week. Credit: Two hours.

MU 3501. Advanced Practicum in Music Therapy. Supervised clinical experience with persons with disabilities; skills in observation, assessment, treatment planning, treatment implementation, and evaluation; functional music skills in clinical settings. Prerequisites: MU 2502, MU 2522, MU 3302, and permission of instructor. May be repeated five times for additional credit. Two lab hours a week. Credit: One hour.

MU 3502. Voice Class. Fundamentals of vocal technique presented in group situation. Basic concepts of phonation, vowels, breathing, posture, and stage presence. Two laboratory hours per week. Credit: Two hours.

MU 3511. Music Therapy Documentation I. Clinical experiences in observational, measurement, and data collection techniques within a supervised music therapy setting. Prerequisite: sophomore standing, permission of the instructor. Corequisite: MU 3501. One lecture hour a week. Credit: One hour.

MU 3531 University Chorus. A choral ensemble designed to provide group singing opportunities for all students. Open to all students, regardless of major and/or musical background, without audition. May be repeated for credit. Three to five rehearsal hours per week. Credit: One hour.

MU 3541. Instrumental Ensemble. Training in ensemble and orchestral playing for students who sight-read and are proficient in orchestral and band instruments. Three to five hours of rehearsal a week. May be repeated for credit. Credit: One hour.

MU 3542. Conducting I. A laboratory class offering the fundamentals of beat patterns, attacks, releases, and fermatas on all beats and parts of beats. Methods of cueing, changing tempo, meter and dynamics, music terminology, and basic score reading will be mastered. Prerequisite: MU 2531. One lecture hour and two laboratory hours a week. Credit: Two hours.

MU 3551. Concert Choir. A select choir singing music written for women's voices drawn from the major periods of music. Open by audition to both majors and non-majors. May be repeated for credit. Three to five rehearsal hours per week. Credit: One hour.

MU 3571. Jazz Lab Ensemble. Stage and dance instrumental organization for training in the field of popular music and jazz. Prerequisite: Selection by the director. Three to five rehearsal hours a week. May be repeated for credit. Credit: One hour.

MU 3581. Chamber Music. Designed for students whose major applied instrument is strings, piano, woodwinds, and brass, who will learn and perform standard chamber music literature and who will listen to and become thoroughly familiar with the entire range of classical, romantic, and contemporary chamber music. Prerequisite: Permission of instructor. Two lecture hours a week. Credit: One hour.

MU 3591. Vocal Ensemble. Select opera workshop or music theatre ensemble or mixed vocal ensemble. Prerequisite: Audition. Three to five rehearsal hours a week. May be repeated for credit. Credit: One hour.

MU 3601 Advanced Conducting. Application of the technical and expressive aspects of conducting, score study techniques, ensemble concepts, historical performance styles, and error detection skills. One lecture hour and one lab hour a week. Credit: One hour.

MU 3602 Secondary Methods and Literature. Methods, materials, and pedagogy related to the teaching of choral and instrumental music in the middle school and high school levels. Two lecture hours a week. Credit: Two hours.

MU 3632. Essentials of Music. Teaching music in the elementary school. Two lecture hours a week. Credit: Two hours.

***MU 3703. Women in Music.** An examination of music from the historical, cultural, and contemporary perspectives of women. Topics will include women as composers and performers, and the cultural values that have affected women's participation in musical life. Three lecture hours a week. Credit: Three hours.

****MU 3713. Music and World Cultures.** Study of the elements and functions of music, with an emphasis on the anthropology of music and on multi-cultural awareness. Includes description and comparison of contemporary music, both indigenous to non-Western cultures and to American popular culture. Three lecture hours a week. Credit: Three hours.

MU 3832. Elementary Music Content. Study of music content specific to the elementary school. Survey of folk music literature. Two lecture hours a week. Credit: Two hours.

MU 3923. Music Theatre: Form-in-the-Making. Artistic process of creating music theatre from the perspective of the choreographer, composer, and playwright. Prerequisite: DNCE 3913, DRAM 3913, or MU 3913 or permission of instructor. Six laboratory hours per week. May be repeated for additional credit. Credit: Three hours.

MU 4512. Instrumental Arranging. Detailed study of characteristics of all instruments and scoring problems involved in mixed ensemble. Prerequisite: MU 2523 and 2533. Two lecture hours a week. Credit: Two hours.

MU 4513. Music in Therapy I. A study of the clinical uses of music in therapy in the fields of medicine, wellness, palliative/hospice care, and gerontology. Prerequisites: Junior standing and/or permission of instructor. Three lecture hours a week. Credit: Three hours.

MU 4522. Form and Analysis. Study of formal structure of tonal music and its harmonic analysis. Two hours of lecture. Credit: Two hours.

MU 4523. Music in Therapy II. A study of the clinical uses of music in therapy in the fields of psychiatry, addiction and recovery, and special education. Prerequisites: Junior standing and/or permission of instructor. Three lecture hours a week. Credit: Three hours.

MU 4533. Professional Ethics, Clinical Techniques, and Reimbursement for Music Therapy. Professional ethics, verbal techniques, and methods of obtaining third party reimbursement for music therapy services. Prerequisites: junior standing

*Satisfies core requirement for Multicultural Women's Studies or visual/performing arts.

**Satisfies core requirement for visual/performing arts and global perspectives graduation requirement.

and/or permission of instructor. Corequisite: MU 3501. Three lecture hours a week. Credit: Three hours.

MU 4611. Music Therapy Documentation II. Continuation of MU 3511. Emphasis on written documentation of assessment, treatment planning and implementation processes and therapeutic outcomes. Prerequisite: MU 3511, sophomore standing, and permission of instructor. Corequisite: MU 3501. One lecture hour a week. Credit: One hour.

MU 4633. Psychology of Music I. A study of the acoustical and psychophysical foundations of music with emphasis on the perception of and responses to musical stimuli. Additional topics include musical ability, musical preferences, and functional music. Prerequisites: Junior standing or permission of the instructor. Three lecture hours per week. Credit: Three hours.

MU 4643. Psychology of Music II. An overview of music therapy research techniques with emphasis on quantitative research methodologies. Prerequisites: Junior standing or permission of the instructor. Three lecture hours per week. Credit: Three hours.

MU 4651. Internship in Music Therapy I. Supervised practical experience in a clinical setting for a minimum of 13 weeks. MU 4651 and MU 4661 must be taken in direct sequence as a continuous internship experience. Prerequisite: Completion of all academic courses in music therapy program. 40 clinical hours a week. Credit: One hour.

MU 4661. Internship in Music Therapy II. Continuation of MU 4651. Supervised clinical music therapy experience in a clinical setting for a minimum of 13 weeks. MU 4651 and MU 4661 must be taken in direct sequence as a continuous internship experience. Prerequisite: MU 4651. 40 clinical hours a week. Credit: One hour.

MU 4723. Seventeenth- and Eighteenth-Century Counterpoint. Studies and applied techniques in the contrapuntal methods of the 1600s and 1700s. Prerequisite: Senior standing or consent of instructor. Three lecture hours a week. Credit: Three hours.

MU 4903. Selected Topics. An organized class for the study of a particular area or subject not offered in another scheduled course. Prerequisite: Permission of instructor. Three lecture hours a week. Credit: Three hours.

MU 4911. Independent Study. Individual supervisory and tutorial instruction; content may include directed readings, a research project, or other similar studies. Prerequisite: Permission of instructor. Credit: One hour.

MU 4913. Independent Study. Individual supervisory and tutorial instruction; content may include directed readings, a research project, or other similar studies. Prerequisite: Permission of instructor. Credit: Three hours.

Graduate Courses

Refer to the Graduate Catalog or the department website for information about our graduate courses.

Department of Visual Arts

Interim Chair: Gary Washmon, Professor

Location: Art 107A

Telephone: (940) 898-2530

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Faculty: Professors J. Calabrese, S. Grant, C. Stuckenbruck, G. Washmon; Associate Professors D. Gregory, C. Parsons, T. Synar; Assistant Professor J. Perez.

Undergraduate Degrees

B.A. in Art with a concentration in Clay, History of Art, Painting, Photography, and Sculpture.

B.F.A. in Art with a concentration in Graphic Design, Clay, Painting, Photography, and Sculpture. (Different art core requirements for Graphic Design.)

B.A. in Art, with a concentration in Visual Arts (with certification, All-Level Art) (Different art core requirements.)

Degree Requirements

In addition to the general university requirements, the Department of Visual Arts requires the following classes for the art core of the BA and BFA degrees:

Art Core (48 hours)

Design: ART 1203. Two-Dimensional Color and Design
ART 1213. Three-Dimensional Design

Drawing: ART 1303. Basic Drawing
ART 1313. Drawing II
ART 2303. Figure Drawing

Graphic Design: ART 2223. Introduction to Computer Based Art

Art History: ART 2503. Ancient and Primitive or ART 2513. Medieval
ART 3343. Women in the Visual Arts
ART 3503. Renaissance
ART 3513. 19th Century
ART 4523. 20th Century

Ceramics ART 3843. Ceramics or ART 3823. Ceramics: Handbuilding
or ART 3833. Ceramics: Handbuilding

Photography: ART 1603. Introduction to Photography

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Painting: ART 1503. Introduction to Painting or ART 3713. Watercolor

Sculpture: ART 2753. Sculpture

ART 4073. Contemporary Issues in Art

General Description of Each Major

**Bachelor of Fine Arts Degree Program with a concentration in:
Clay, Painting, Photography, or Sculpture (123 hours)**

University Core Curriculum Requirement (42 hours)

Competency Requirements (6 hours)

Oral Communications - Speech 1013 (3 hours)

Computer Literacy - CSCI 1403 (3 hours)

All students must complete six credit hours in approved Global Perspectives courses, either in the core or major courses (graduation requirement).

Art Core (48 hours)

*Art Concentration (27 hours)

Must be 2000, 3000, 4000, level courses.

Consult major advisor for specific concentration classes.

**Bachelor of Arts Degree Program with a concentration in:
Clay, History of Art, Painting, Photography, or Sculpture
(120 hours)**

University Core Curriculum Requirement (42 hrs.)

Competency Requirements (6 hours)

Oral Communications - Speech 1013 (3 hours)

Computer Literacy - CSCI 1403 (3 hours)

All students must complete six credit hours in approved Global Perspectives courses, either in the core or major courses (graduation requirement).

Art Core Requirements (48 hrs.)

Concentration Requirements (24 hrs.)

Art Concentration (15 hrs.)

Art Concentration Electives (9 hrs.)*

Consult major advisor for specific concentration classes.

* Must be 2000, 3000, or 4000 level courses.

* Fine Art or Visual Art core curriculum requirements may not be used for major requirements.

Bachelor of Arts Degree Program

Teaching Certification

Students who wish to major in art, with certification and teach in elementary and secondary schools may obtain a teaching certificate (all-level) in art. The certificate in art studies prepares the student to teach art in public schools. Please see department advisor for degree plan.

Visual Arts, with All-Level Art Certification (EC-12) (formerly Art Education) (121 hours)

University Core Curriculum Requirement (42 hrs.)

Art Requirements (51 hrs.)

ART 1203. Two-Dimensional Color and Design
 ART 1213. Three-Dimensional Design
 ART 1303. Basic Drawing
 ART 1313. Drawing II
 ART 1503. Introduction to Painting or ART 3713. Watercolor
 ART 1603. Introduction to Photography or
 ART 2653. Black and White Photography
 ART 2223. Introduction to Computer Based Art
 ART 2753. Sculpture
 ART 3823. or 3833 or 3843. Ceramics
 ART 2303. Figure Drawing
 ART 3033. Essentials of Art
 ART 3053. Global Perspectives in Art
 ART 3063. Essentials of Art for Adolescents
 ART 3073. Art Criticism and Aesthetics for Educators
 Select 9 credit hours from the following Art History courses:
 ART 2503. 2513
 ART 3343. 3503, 3513, 4523, 4903 (Film Noir), 3303

Pedagogy and Professional Responsibilities (25 hrs.)

EDUC 2003. Legal, Ethical, Prof. Role & Resp. (TECA)
 EDUC 3003. Learning Theory & Development
 EDUC 3001. Integrating Technology for Eff. Lrng.
 EDUC 4113. Design & Implementation of Assess. & Instruct.
 EDUC 4001. Integrating Tech. into D & I of A & I
 EDUC 4243. Classroom Environment & Management
 EDUC 4316. Student Teaching (6)
 CSCI 3002. Technology
 READ 3013. Literacy and Learning Across the Curriculum

2.75 GPA required for admission to Teacher Education.

Acceptable TSI scores required for Teacher Education program standards: Pass TeXES qualifying exam with 75% or above. Pass art qualifying exam with 80% or above.

Additional Requirements

Speech 1013 (3 hrs.)

Pass computer literacy exam after 75 hours

Bachelor of Fine Arts Degree Program - Graphic Design Concentration (123 hours)

University Core Curriculum Requirement (42 hrs.)

Competency Requirements (6 hours)

Oral Communications - Speech 1013 (3 hours)

Computer Literacy - CSCI 1403 (3 hours)

Art Core Requirements (42 hrs.)

ART 1203. Two-Dimensional Color and Design

ART 1213. Three-Dimensional Design

ART 1303. Basic Drawing

ART 1313. Drawing II

ART 1503. Introduction to Painting or ART 3713. Watercolor

ART 1603. Introduction to Photography

ART 2303. Figure Drawing

ART 2503 or 2513. History of Art - Ancient and Primitive or
History of Art Medieval.

ART 2223. Introduction to Computer Based Art

ART 2753. Sculpture

ART 3503. History of Art - Renaissance

ART 3513. History of Art - 19th Century

ART 3843. Ceramics

ART 4523. History of Art - 20th Century

Graphic Design Requirements (33 hrs.)

ART 2653. Black and White Photography

ART 3243. Fundamentals of Type and Image

ART 3293. Design I: Identity and Symbols

ART 4233. Professional Portfolio

ART 4253. Design II: Publication Design

ART 4283. Design III: Interactive Design

ART 4293. Design IV: Advertising Design

ART 4303. Senior Design Project
ART 4653. Color Photography
ART 4953. or 4956. Cooperative Education (6 hrs.)

**Bachelor of Fine Arts Degree Program with a
concentration in: Photography with Business (123 hours)**

University Core Curriculum Requirement (42 hours)

Competency Requirements (6 hours)
Oral Communications - Speech 1013 (3 hours)
Computer Literacy - CSCI 1403 (3 hours)

Art Core Requirements (48 hrs.)

Photography with Business Requirements (27 hrs.)

ART 2653. Basic Photography
ART 4233. Professional Portfolio
ART 4653. Color Photography
ART 4663. Digital Imaging
ART 4673. Alternative Photo Processes
ART 4683. Photographic Possibilities
ART 4953 Cooperative Education (3 hrs.)
BUS 3113. Principles of Marketing
BUS 3243. Entrepreneurship

Art Minor

For a baccalaureate degree for non-art majors, a minor in art requires 18 semester hours of art, including six hours of advanced work (3000 or 4000 level).

For information on studio art, graphic design, intermedia and digital art minors, please contact the visual arts department.

Art Undergraduate Courses

***ART 1203. Two-Dimensional Color and Design.** (ARTS 1311) Theories and terminology of the structure of two-dimensional design and color. The principles and elements of design will be presented and problem solving explored in various art media, techniques, and concepts. Two lecture, four studio hours a week. Credit: Three hours.

ART 1213. Three-Dimensional Design. (ARTS 1312) The application of principles and elements of design to three-dimensional art. Form, mass, and space will be presented in theory, concept, and terminology and will be explored through problem solving in various art media, techniques, and concepts. Prerequisite: ART 1203 or permission of the instructor. Two lecture, four studio hours a week. Credit: Three hours.

***ART 1303. Basic Drawing.** (ARTS 1316) Introduction to drawing styles, techniques and concepts including expressive, analytical and perceptual problems using still-life, figure, landscape, ethnic heritage, and women's issues as subject matter. Appropriate for art and non-art majors and art minors. Two lecture, four studio hours a week. Credit: Three hours.

ART 1313. Drawing II. (ARTS 1317) Continued study of contour, form, texture, and space concepts in still life, figure, perspective, and landscape. Prerequisite: ART 1303 or permission of the instructor. Two lecture, four studio hours a week. Credit: Three hours.

***ART 1503. Introduction to Painting.** A study of painting techniques and concepts with a review of contemporary, multicultural, and women's art. Lectures, demonstrations, studio production and field trips. Appropriate for art and non-art majors and art minors. Two lecture, four studio hours a week. Credit: Three hours.

***ART 1603. Introduction to Photography.** (ARTS 2356) A study of 35mm photography. Emphasis on technical and aesthetic aspects of historical and contemporary work. Exploration of social, political and technological developments. Appropriate for art and non-art majors and art minors. Two lecture, four studio hours a week. Credit: Three hours.

ART 2223. Introduction to Computer Based Art. (ARTS 2351) Studio course designed to introduce students to current imaging software and hardware for creating artwork. Investigates the relationship between computer technology and traditional media through hands-on projects. Two lecture, four studio hours a week. Prerequisite: CSCI 1403 or permission of instructor. Credit: Three hours.

ART 2303. Figure Drawing. (ARTS 2323) Drawing from the life model, anatomical, and creative aspects. Prerequisites: ART 1303, 1313, or permission of the instructor and chair of the department. May be taken for up to 12 hours credit. Each semester of work is progressively more advanced than the previous semester. Two lecture, four studio hours a week. Credit: Three hours per semester.

***ART 2503. History of Art-Ancient and Primitive.** (ARTS 1303) A study of art from the beginning of civilization to the fall of the Roman Empire: ethnic,

*Satisfies core requirement for visual/performing arts.

sociology, and philosophical background. Appropriate for art and non-art majors and art minors. Three lecture hours a week. Credit: Three hours.

***ART 2513. History of Art-Medieval.** (ARTS 1304) Survey of early Christian, Byzantine, Romanesque, and Gothic art. Prerequisite: Sophomore standing. Three lecture hours a week. Appropriate for art and non-art majors and art minors. Credit: Three hours.

ART 2653. Black and White Photography. (ARTS 2357) Experience in using a 35mm camera and various types of photographic equipment. Darkroom training, photograms, printing and presentations, and exhibition prints. Prerequisite: ART 1603 or permission of instructor. May be taken for up to 12 hours of credit. Each semester of work is progressively more advanced. Two lecture, four studio hours a week. Credit: Three hours.

***ART 2713. Understanding the Arts - Visual Arts.** (ARTS 1301) An introduction to the various forms, styles, and periods in visual arts. Emphasis on cultural awareness. Appropriate for art and non-art majors and art minors. Three lecture hours a week. Credit: Three hours.

ART 2753 Sculpture I. Basic sculptural techniques and materials including plaster casting, direct building, wood processes, and mixed media. Idea development will be emphasized. Slide lectures, readings, and critical discussions. Two lecture and four studio hours a week. Credit: Three hours.

ART 3032. Essentials of Children's Art. Acquaints students with instructional strategies, best practices, and techniques for assessment of students in art grades EC-4. A balanced curriculum of art history, art criticism, aesthetics, and art production will be modeled and utilized in classroom activities. Lessons are infused with interdisciplinary connections and multicultural perspectives on art. Appropriate for art education (visual art with certification), elementary education (interdisciplinary education), early childhood, and bilingual education majors. This course does not fulfill the University Fine Arts Core requirements. Two lecture/two studio hours a week. Credit: Two hours.

ART 3033. Essentials of Children's Art. An Exploration of the works of art by children, ages 4-12, and the relationship of this work to the elements and principles of art, art appreciation, art criticism, and studio production. Appropriate for art education (visual art with certification), elementary education (interdisciplinary education), bilingual, and early childhood education majors. This course does not fulfill the University Fine Arts Core requirement. Two lecture, four studio hours a week. Credit: Three hours.

****ART 3053. Global Perspectives in Art.** Develops understanding and appreciation of various cultural values while increasing skills in creative art techniques. The function, style and purpose of art in world cultures will be used to inspire personal creative expression. No prerequisites. Two lecture, four studio hours a week. Credit: Three hours.

ART 3063. Essentials of Art/Adolescents. Signature course in secondary art education methods and materials for all-level art and secondary certification

*Satisfies core requirement for visual/performing arts.

**Satisfies global perspectives graduation requirement and visual/performing arts core.

requirements. Does not fulfill the University Fine Arts Core requirement. Two lecture, four studio hours a week. Credit: Three hours.

ART 3073. Art Criticism and Aesthetics for Educators. Develops knowledge, skills and strategies for teaching the philosophical underpinnings, analysis and evaluation of the content area art. Developmentally appropriate activities and teaching strategies will be developed for the K-12 population. The integration of the general educational goals of literacy and comprehension will be incorporated into the unique art activities of interpretation and critique. Three lecture hours a week. Credit: Three hours.

ART 3243. Fundamentals of Type and Image. Study of the aesthetics, function and history of typography as it relates to visual communication. Includes an examination of the relationship between type and image systems of communication. Prerequisite: ART 2223. May be taken for up to 12 hours credit. Two lecture, four studio hours a week. Credit: Three hours.

ART 3293 Design I: Identity and Symbols. Representation of abstract ideas through symbols. Development of visual identity marks and systems for specified clients. Prerequisites: ART 2223. Two lecture hour and four lab hours a week. Credit: Three hours

ART 3303. North American Indian Art. Introduction and overview of the visual art forms of American Indian people in North America, from prehistoric through contemporary. Survey of major culture area groups and individual artists of native North America with emphasis on the cultural context of the artistic production. Three lecture hours a week. Credit: Three hours.

****ART/WS 3343. Women in the Visual Arts** (Same as WS 3343). A survey of women visual artists of the western world and how their roles relate to those of women visual artists around the world. An analysis, from a traditional and a feminist point of view, of the recording of the female artist's place in history. No prerequisites. Three lecture hours a week. Credit: Three hours.

ART 3373. The World of Imagination in Art, Dance, and Film. Examines themes of fantasy and reality, emphasis on dance and visual arts with selected examples from other disciplines. No prerequisites. Fulfills university Interdisciplinary core Fine Arts core requirements. This course is the same as DNCE 3373. Appropriate for all majors. Three lecture hours a week. Credit: Three hours.

***ART 3503. History of Art-Renaissance.** European art from 1400 to 1600. Emphasis on concepts of Renaissance Art. Appropriate for art and non-art majors and art minors. Fulfills university Fine Arts core requirement. Three lecture hours a week. Credit: Three hours.

***ART 3513. History of Art-19th Century.** Development of art in the modern world from the end of the 18th century to 1899. Appropriate for art and non-art majors and art minors. Fulfills university Fine Arts core requirement. Three lecture hours a week. Credit: Three hours.

*Satisfies core requirement for visual/performing arts.

**Satisfies core requirement for visual/performing arts or multicultural women's studies.

ART 3543 History of Art – Baroque and Rococo. A survey of European painting, sculpture, architecture, graphic arts from 1590 to 1760. Appropriate for art and non-art majors. Three lecture hours a week. Credit: Three hours.

ART 3713. Painting-Watercolor. (ARTS 2366) Composition and rendering of watercolor. Field trips. Prerequisites: ART 1203, 1213, or permission of instructor and chair of the department. May be taken for up to 12 hours credit. Each semester of work is progressively more advanced than the previous semester. Two lecture, four studio hours a week. Credit: Three hours.

ART 3763. Sculpture II. Intermediate and advanced sculptural techniques including metal fabrication, wood processes, and alternative media. Site specific and installation art. Concept development will be emphasized. Slide lectures, readings, and critical discussions. May be repeated for up to 12 hours credit. Two lecture, four studio hours a week. Credit: Three hours.

***ART 3823. Ceramics: Handbuilding.** (ARTS 2346) Basic skills for creating ceramic forms using coil and slab building methods. Functional, sculptural, and technical issues are presented. Each semester's work is progressively more advanced than the previous semester. May be repeated with permission of instructor for up to 12 hours credit. Two lecture, four studio hours per week. Credit: Three hours.

***ART 3833. Ceramics: Throwing.** (ARTS 2347) Basic competence in using the potters wheel for ceramics. Includes functional, sculptural, and technical issues. Each semester's work is progressively more advanced than the previous semester. May be repeated with permission of instructor for up to 12 hours credit. Two lecture, four studio hours per week. Credit: Three hours.

ART 3843. Ceramics. An introduction to basic techniques for forming, firing and surfacing of clay. Includes technical and historical information. Appropriate for art and non-art majors and art minors. Fulfills the University Fine Arts core requirement. May be repeated with permission of instructor for up to 12 hours credit. Two lecture, four studio hours per week. Credit: Three hours.

ART 3863 Special Techniques in Advanced Ceramics. Each semester focuses on a different type of forming technique and an area of technical study or research. Continued development of each student's artwork. Prerequisite: ART 3853. Appropriate for art and non-art majors and art minors. May be repeated for up to 12 hours of credit. Two lecture and four studio hours a week. Credit: Three hours.

ART 3873. Ceramics: Glaze Formulation. Formulation and creation of glazes and clays. Includes aesthetic and technical issues. Each semester's work is progressively more advanced than the previous semester. Prerequisite: ART 3823, or 3833. May be repeated for up to 6 hours credit. Two lecture, four studio hours per week. Credit: Three hours.

ART 3883. Ceramics: Moldmaking. Basic skills for creating and using molds for ceramics. Includes functional, sculptural, and technical issues. Each semester's work is progressively more advanced than the previous semester. Prerequisites: ART 3823 or 3833 or 3843, or instructor's permission. May be repeated for up to 6 hours credit. Two lecture, four studio hours per week.

*Satisfies core requirement for visual/performing arts.

ART 4073. Contemporary Issues in Art. Issues and trends influencing the evolution of art from twentieth-century Modernism to twenty-first century Post-modernism. Investigates theoretical and conceptual foundations of contemporary art, major artists, styles of art, and aesthetic assumptions about art in contemporary times. Three lecture hours a week. Credit: Three hours.

ART 4233. Professional Portfolio. Development of the professional portfolio and/or related materials for prospective employers. The emphasis will be on professional methods, techniques, and practices currently used in business, commerce, industry, and other related institutions. Prerequisites: Advanced standing and endorsement of faculty advisor and department chair. Two lecture, one laboratory hour per week. Credit: Three hours.

ART 4253: Design II: Publication Design. Concept, design, and execution of complex “visual information delivery systems” intended for publication and mass distribution. Creation and application of gridded templates and a limited variety of other structural organization techniques to manipulate combinations of type and images within multi-page layouts. Prerequisites: ART 2223 and ART 3243. Two lecture hours and four lab hours a week. Credit: Three hours.

ART 4283 Design III: Interactive Design. Examination of the internet as a venue in visual communication and exploration of the creative possibilities of the medium. Examination of the principles of interactivity in computer media, and the conceptual and technical issues involved in the design and production of interactive documents, with an emphasis on interactive design. Prerequisites: ART 2223 and ART 3243. Two lecture hours and four lab hours a week. Credit: Three hours.

ART 4293 Design IV: Advertising Design. Investigation, creation, and application of advertising design and the development of advertising campaigns. Creative problem solving, audience, product, and client positioning, marketing and creative strategies as applied to advertising, as well as the advertising design process. Includes creative team interaction, individual brainstorming techniques, and detailed research. Prerequisites: ART 2223 and ART 3243. Two lecture hours and four lab hours a week. Credit: Three hours.

ART 4303 Senior Design Project. A vigorous and consistent thematic body of work which articulates both technical and conceptual concerns required. Prerequisites: ART 2223, ART 3243, ART 3293, ART 4253, and ART 4283. Two lecture hours and four lab hours a week. Credit: Three hours.

ART 4523. History of Art-20th Century. Development of art in the modern world from 1900 to present. Appropriate for art and non-art majors and art minors. Three lecture hours a week. Credit: Three hours.

ART 4533 History of American Film Noir. A historical overview and examination of the nature of this film style and its themes. Analysis of key films with intensive discussions. Three lecture hours a week. Credit: Three hours.

ART 4553 Selected Periods of European Art. Historical study of visual art of a particular nation and period including analyses of works of art, and examination of the stylistic, historical and cultural characteristics. Works studied vary, and the course may be repeated for additional credit. Prepares students for ART 4563. Prerequisite: Permission of instructor. Three lecture hours a week. Credit: Three hours.

ART 4563 European Art in Context. Visual art of a particular region and period in its national context. Includes study tour to sites in the nations where artifacts of the period are located. May be repeated for additional credit. Prerequisite: ART 4553 and permission of instructor. Three lecture hours a week. Credit: Three hours.

ART 4653. Color Photography. Study of historical and contemporary color photography in art. Experience in shooting, processing, and printing color photographs and slides. Class critiques to encourage individual vision through color materials. Prerequisite: ART 1603 and ART 2653 or permission of the instructor. Two lecture, four studio hours a week. May be taken for up to 12 hours credit. Each semester of work is progressively more advanced than the previous semester. Credit: Three hours.

ART 4663. Digital Photography. Study of digital technologies in fine arts photography. Theoretical and technical concerns including overview of necessary components, scanning techniques, input devices, image manipulation, and output media. Prerequisites: ART 2223, 2653 and 4653 or permission of the instructor. Two lecture, four studio hours a week. May be taken for up to 12 hours credit. Each semester work is progressively more advanced than the previous semester. Credit: Three hours.

ART 4673. Alternative Photographic Processes. Lectures and demonstrations of historical and contemporary alternative processes utilizing pinhole cameras, cyanotype, vandyke, xerox, and transfer. Prerequisites: ART 2653 and 4653 or instructor's permission. May be taken for up to 12 hours credit. Each semester's work is progressively more advanced than the previous semester. Two lecture and four studio hours a week. Credit: Three hours.

ART 4683. Photographic Possibilities. Explore advanced experimental content, techniques, and materials in photography including installation, book arts and image manipulation. May be taken for up to 12 hours credit. Prerequisite: ART 1603, ART 2653, ART 4653 or permission of instructor. Each semester of work is progressively more advanced than the previous semester. Two lecture, four studio hours a week. Credit: Three hours.

ART 4703. Painting. Advanced studies in painting, color, and composition. Emphasis on individual development of content. Each semester of work is progressively more advanced. Two lecture, four studio hours a week. May be taken for up to 12 hours credit. Prerequisite: ART 1503. Credit: Three hours.

ART 4713. Advanced Problems in Painting. Development of individual statements in painting. Introduction to exhibition techniques. Prerequisites: ART 1503, ART 4703 or permission of instructor. May be taken for up to 12 hours credit. Each semester's work is progressively more advanced than the previous semester. Two lecture, four studio hours a week. Credit: Three hours.

ART 4843 Ceramic Surfaces: Printing. Intermediate to advanced level. Methods and strategies for using photographic, digital, and print techniques with ceramic materials; basic ceramic material properties and processing techniques. Survey of the history of printing on clay, the interchange between these media, and contemporary examples. Prerequisite: either ART 3823, 3833, or 3843 or permission

of instructor. May be taken for up to 12 hours credit. Two lecture four studio hours a week. Credit: Three hours.

ART 4853 Ceramic Design. Intermediate to advanced level. Methods and strategies for using ceramics to design functional forms toward developing skills and a unique body of work. Survey of historic and contemporary design, advanced ceramic material properties, and processing techniques. Prerequisites: either ART 3823, 3833, or 3843 or permission of instructor. May be taken for up to 12 hours credit. Two lecture four studio hours a week. Credit: Three hours.

ART 4863 Sculptural Ceramics. Intermediate to advanced level. Methods and strategies for using ceramics as a sculptural material toward developing a unique body of artwork. Survey of historic and contemporary ceramic sculpture. Teaches advanced ceramic material properties and processing techniques. Prerequisites: either ART 3823, 3833, or 3843 or permission of instructor. May be taken for up to 12 hours credit. Two lecture four studio hours a week. Credit: Three hours.

ART 4873 Ceramic Surfaces: Painting. Intermediate to advanced level. Methods and strategies for using painting techniques with ceramic materials, as well as basic ceramic material properties and processing techniques. For students who have experience with both ceramics and painting. Includes a survey of the history of painting on clay, the interchange between these media, and contemporary examples. Prerequisites: ART 1503 and either ART 3823, 3833, or 3843 or permission of instructor. May be taken for up to 12 hours credit. Two lecture four studio hours a week. Credit: Three hours.

ART 4903 Selected Topics: Design Senior Project. A vigorous and consistent thematic body of work which articulates both technical and conceptual concerns required. Prerequisites: ART 2223, ART 3243, ART 3293, ART4253 and ART 4283. Three lecture, no studio hours per week. May be taken for up to 12 hours of credit. Credit: Three hours.

ART 4913. Independent Study. Individual study of technical problems in art. Prerequisite: Permission of the instructor and chair of the department. May be taken for up to 12 hours credit. One lecture, four studio hours per week. Credit: Three hours.

ART 4953, 4956. Cooperative Education. Graduating seniors within 12 hours of graduation may take graduate level courses. These are for graduate credit and will not count toward the fulfillment of the undergraduate degree.

ART 4993. Exhibition. Studio research course to meet the exhibit requirement for studio art majors. Prerequisite: Permission of instructor. Two lecture and four studio hours a week. Credit: Three hours.

Graduate Courses

Please refer to the Graduate Catalog or the department website for information about our graduate courses.

School of Management

Director: Paula Ann Hughes, Professor

Location: CFO 506

Telephone: (940) 898-2111

Telefax: (940) 898-2120

E-Mail: som@twu.edu

www.twu.edu/som

Faculty: Professors R. Rezac; Associate Professors P. Baker, J. Nugent, M. Raisinghani, D. Rylander, M. Tengesdal; Assistant Professors D. Crews, P. Raman, M. Russ, S. Singh, K. Webb, G. Werema, L. Zou.

The School of Management offers programs leading to the Bachelor of Business Administration (B.B.A.), Bachelor of Science (B.S.), and Bachelor of Applied Sciences (B.A.S.) degrees. The Bachelor of Business Administration (B.B.A.) program prepares students for careers in accounting, business administration (general or small business/entrepreneurship), finance, management, marketing, and human resources. Students interested in taking the CPA exam must have 150 semester hours of course work. A certificate program in finance is also available.

The Bachelor of Science degree in Fashion Merchandising and Bachelor of Arts degree in Fashion Design are available in the Fashion and Textiles program of the School of Management to prepare students for careers in the fashion industry. These degrees include internships to provide students with industry experience before they complete the degree.

Minors offered in a variety of business specializations for non-business majors will be valuable for entering many careers. Students may also gain experience in business prior to graduation by enrolling in the Cooperative Education program through the School of Management when they have reached their sophomore year.

Preparing students for a challenging and changing world is a goal of the School of Management. Cultural diversity, teamwork, ethics, and communication are essential for success in business careers.

The School of Management also offers graduate programs including the Master of Business Administration (M.B.A.) and the M.B.A./M.H.S.M. program and Executive Masters of Business Administrative (E.M.B.A.) or the traditional M.B.A. format. For the M.B.A. and M.B.A./M.H.S.M. offerings refer to the Graduate Catalog. For more information, please visit the School's home page at www.twu.edu/som/.

Admission Requirements

Please see the Admission section of this catalog.

Undergraduate Degrees

B.B.A – Bachelor of Business Administration (120 hours)

- A. Accounting
- B. Business Administration (General or Small Business/Entrepreneurship)
- C. Finance
- D. Human Resources
- E. Management
- F. Marketing

Bachelor of Science in Business – for Teaching Certification only

Total hours required: 120 semester hours.

Requirements for B.B.A. — Business Administration (General)

The B.B.A requires a total of thirty (30) semester hours of advanced business, economics, or related courses with the advanced approval of advisor from the School of Management. Students are also required to complete a 30 semester hour specialization (listed below).

Bachelor of Business Administration in General Business (120 hours)

FIRST YEAR

First Semester	Second Semester
*Eng 1013 Composition 3	*Eng 1023 Composition 3
*Hist 1013 U.S. History 1492 to 1865.. 3	*Hist 1023 U.S. History 1865 to Present... 3
*Math 1703 Elementary Statistics I..... 3	Math 1713 Elementary Statistics II 3
*Science (core)..... 3	*Science (core)..... 3
*Eco 1013 Principles of Microeconomics . 3	Eco 1023 Principles of Macroeconomics..... 3
Total Hours 15	Total Hours 15

SECOND YEAR

First Semester	Second Semester
*Gov 2013 American Government..... 3	*Gov 2023 Texas Government 3
Bus 2043 Accounting I 3	Bus 2053 Accounting II 3
Math 2203 Business Analysis I..... 3	**Csci 2433 Microcomputer Applications .3
*Bus 2803 Women in Business..... 3	*Visual or Performing Arts (core)..... 3
*Humanities (core)..... 3	*MATH 1013 Quantitative Literacy 3
Total Hours 15	Total Hours 15

THIRD YEAR

First Semester	Second Semester
Bus 3113 Principles of Marketing 3	Bus 3003 Principles of Management..... 3
**Bus 3513 Prof. Presentation Strategies. 3	Bus 3163 Business Communication 3
Bus 3533 Management Information Syst. 3	Bus 3013 Business Law & Ethics 3
Bus 3053 Business Finance 3	Approved Bus/Eco Elective 3
***Bus 3183 International Business..... 3	Approved Bus/Eco Elective 3
Total Hours 15	Total Hours 15

FOURTH YEAR

First Semester	Second Semester
Bus 4543 Quantitative Mgmt. Analysis 3	Bus 4333 Business Policy 3
Approved Bus/Eco Elective 3	Approved Bus/Eco Elective 3
Approved Bus/Eco Elective 3	Approved Bus/Eco Elective 3
Approved Bus/Eco Elective..... 3	Approved Bus/Eco Elective 3
Approved Bus/Eco Elective..... 3	Non-Business Elective..... 3
Total Hours 15	Total Hours 15

* Part of Core Curriculum (Note: Some science classes require an additional 1-hour lab.)

** Proficiency requirement for speech or computer literacy

*** Part of Global Perspectives requirement (six total hours needed for Global Perspectives)

All students must complete six credit hours in approved Global Perspectives courses, either in the core or major courses (graduation requirement).

Prerequisites and major requirements for all B.B.A. majors:

Prerequisites

MATH 1703 Elementary Statistics I

ECO 1013 Principles of Micro Economics

ECO 1023 Principles of Macro Economics

MATH 1713 Elementary Statistics II

MATH 2203 Business Analysis I

MAJOR REQUIREMENTS (30 hours)

BUS 2043 Fundamentals of Accounting I

BUS 2053 Fundamentals of Accounting II

BUS 3003 Principles of Management

BUS 3013 Business Law & Ethics

BUS 3053 Business Finance

BUS 3113 Principles of Marketing

BUS 3163 Business Communication

BUS 3533 Management Information Systems

BUS 4333 Business Policy (final semester)

BUS 4543 Quantitative Management Analysis

Specializations for B.B.A. Degrees

(A) B.B.A. – Accounting (30 hours specialization)

Required Courses (30 hours)

BUS 3063 Income Tax Accounting I

BUS 3023 Intermediate Accounting I

BUS 3043 Intermediate Accounting II

BUS 3103 Cost Accounting

BUS 3183 International Business

BUS 4023 Advanced Accounting

BUS 4163 Income Tax Accounting II

BUS 4173 Accounting Information Systems

BUS 4183 Government and Not-For-Profit Accounting

BUS 4423 Auditing

Future CPA candidates will need a total of 150 semester hours which includes an additional 6 hours of Accounting courses numbered 3000 or above to sit for the CPA exam.

(B) B.B.A. General - Entrepreneurship Emphasis (30 hour specialization)

Required Courses (21 hours)

BUS 3183 International Business
BUS 3243 Entrepreneurship
BUS 3273 Human Resource Management
BUS 4093 Principles of Selling
BUS 4173 Accounting Information Systems
BUS 4213 Consumer Behavior
BUS 4443 Small Business Management

Business electives (9 hours) advanced business courses by approval of School of Management advisor.

(C) B.B.A. – Finance (30 hours specialization)

Required Courses (21 hours)

BUS 3063 Income Tax Accounting I
BUS 3133 Investments
BUS 3183 International Business
BUS 4243 Financial Management
BUS 4253 Financial Planning
BUS 4613 Finance Policy and Strategy
ECO 3063 Money and Banking

Business electives (9 hours) advanced business courses by approval of School of Management advisor

(D) B.B.A. – Human Resources Management (30 hours specialization)

Required Courses (30 hours):

BUS 3183 International Business
BUS 3253 Labor Management Relations
BUS 3273 Human Resource Management
BUS 4013 Alternate Dispute Resolution
BUS 4103 Training and Development
BUS 4223 Human Behavior in Business Administration
BUS 4273 Management of Compensation
BUS 4293 International HR Management
BUS 4903 HR Classification
BUS 4903 Special Topics

(E) B.B.A. – Management (30 hours specialization)

Required Courses (15 hours)

BUS 3183 International Business
BUS 3273 Human Resource Management
BUS 4223 Human Behavior in Business Administration
BUS 4243 Financial Management
BUS 4443 Small Business Management

Business electives (15 hours) advanced business courses by approval of School of Management advisor.

(F) B.B.A. – Marketing (30 hours specialization)

Required Courses (18 hours)

BUS 3183 International Business
 BUS 4093 Principles of Selling
 BUS 4113 Marketing Research
 BUS 4133 Promotion Strategy
 BUS 4213 Consumer Behavior
 BUS 4553 Advanced Marketing
 BUS 4293 International Marketing

Business electives (12 hours) advanced business courses by approval of School of Management advisor.

**Bachelor of Science in Business
 Leading to 6-12 Certification in Business Administration
 (120 hours)**

University Core (42 hours)

Business Administration (36 hours)

BUS 2043 Fundamentals of Accounting I
 BUS 2053 Fundamentals of Accounting II
 BUS 3003 Principles of Management
 BUS 3013 Business Law and Ethics
 BUS 3053 Business Finance
 BUS 3113 Principles of Marketing
 BUS 3163 Business Communications
 BUS 3183 Introduction to International Business
 BUS 3243 Entrepreneurship
 BUS 3273 HR Management
 BUS 3533 Management Information Systems
 BUS 4253 Financial Planning

Related Studies (17 hours)

MATH 2203 Business Analysis I
 CSCI 3002 Advanced Computer Technology
 ECO 1013 Principles of Microeconomics
 ECO 1023 Principles of Macroeconomics
 BUS 3513 Professional Presentation Strategies (satisfies speech proficiency)
 FS 3513 Adolescent Development
 READ 3013 Literacy and Learning Across the Curriculum

Pedagogy and Professional Responsibility (23 hours)

EDUC 2003 Schools and Society
 EDUC 3003 Learning Theory and Development
 EDUC 3482 Teaching Diverse Learners through Technology
 EDUC 4113 Design and Implementation of Assessment and Instruction
 EDUC 4243 Classroom Environment and Management

EDUC 4026 Student Teaching in Business
EDSP 4203 – Learners with Exceptionalities

Bachelor of Applied Science in Business (General)

The B.A.S. in Business is available for students who transfer in with an A.A.S. degree. At TWU students complete 42 credit hours in the core curriculum and at least 33 credits in business courses to reach a minimum of 12-122 credit hours. Students may transfer in up to 45-47 credit hours from A.A.S. business programs as well as any core curriculum credits and they must complete at least 36 upper division credits. Students in the B.A.S. program take business courses covering all of the disciplines: Management, Marketing, Law, Statistics, Communications, and Information Systems. Required business courses for the B.A.S. degree are listed below.

- BUS 2803 Women in Business
- BUS 3003 Principles of Management
- BUS 3013 Business Law & Ethics
- BUS 3053 Business Finance
- BUS 3113 Principles of Marketing
- BUS 3163 Business Communication
- BUS 3183 International Business (GP)
- BUS 3533 Management Information Systems
- BUS 4333 Business Policy
- BUS 4353 International Marketing (GP)
- BUS 4543 Quantitative Management Analysis

Students admitted to the B.A.S. in Business wishing to change majors will need to re-apply to TWU. Technical credit will be removed from the transcript in such cases.

Minors and Certificates

Several minors are available for non-Business majors or non-Fashion & Textile majors including Accounting, Business Administration (General), Finance, Management, and Marketing. Courses required for these minors can be found on the website for the School of Management.

The **Certificate in Finance** is available, requiring 18 semester hours at the 3000 or 4000 level. This certificate program is compatible with the curriculum of the Chartered Finance Analysts Program, which is widely recognized in the financial industry. Different from the Minor in finance, the certificate program in finance requires more in-depth coursework in finance and is allowed to pursuit by students with business majors. Requirements are available on the School of Management website.

HR Management Minor

- BUS 2043 Fundamentals of Accounting I OR
- ECO 1013 Principles of Microeconomics OR
- ECO 1023 Principles of Macroeconomics
- BUS 3003 Principles of Management

BUS 3253 Labor Management Relations
 BUS 3273 HR Management
 BUS 4103 Training and Development
 BUS 4223 Human Behavior OR
 BUS 4273 Management of Compensation OR
 BUS 4293 International HR

Marketing Minor

BUS 3113. Principles of Marketing
Plus fifteen (15) hours from the following:
 BUS 4063 Retailing
 BUS 4093 Principles of Selling
 BUS 4113 Marketing Research
 BUS 4133 Promotional Strategy
 BUS 4153 Services Marketing
 BUS 4213 Consumer Behavior
 BUS 4503 Internet Marketing

Small Business/Entrepreneurship Minor

BUS 3003 Principles of Management
 BUS 3113 Principles of Marketing
 BUS 4053 Accounting for Small Business OR
 BUS 2043 Fundamentals of Accounting I
 BUS 4093 Principles of Selling OR
 BUS 4213 Consumer Behavior
 BUS 3243 Entrepreneurship
 BUS 4443 Small Business Management
 (Must be last BUS course)

Business Undergraduate Courses

BUS 2043. Fundamentals of Accounting I. An emphasis on understanding of the accounting cycle and basic financial statement preparation. The course includes coverage of accounting for notes and interest, accruals and deferrals, fixed assets accounting including depreciation, depletion and amortization, payroll and payroll taxes. Prerequisite: Demonstrated readiness for college math. Credit: Three hours.

BUS 2053. Fundamentals of Accounting II. A study of accounting for partnerships and corporations; long-term obligations; investments; manufacturing operations including job order, process cost and standard cost systems, income tax allocations and statements analysis. Prerequisite: BUS 2043. Credit: Three hours.

***BUS 2803. Women in Business.** The study of the status and roles of women working both inside and outside the domestic workforce. Examines myths and realities of women's experiences across various socioeconomic, racial, ethnic, and

*Satisfies multicultural women's studies core requirement.

cultural groupings. Surveys advances made by women in the workforce and coping techniques developed by practitioners to enable women to be valued in terms of professional competencies rather than gender stereotype. Credit: Three hours.

BUS 3003. Principles of Management. The concept and principles of management and organization; managerial functions of planning, organizing, directing, controlling; decision making; human relations; motivation; communications; and leadership. Credit: Three hours.

BUS 3013. Business Law and Ethics. Introduction to the legal problems confronting businesses in the global environment. Role of law in society; introduction to legal reasoning, dispute resolution, judicial process, constitutional law, agency, torts and government regulations; business ethics; contracts. Study of basic legal principles of business organizations and operations, including assessment of advantages and disadvantages of different types of organization. Credit: Three hours.

BUS 3023. Intermediate Accounting I. Financial accounting and accounting standards, preparation of financial statements in accordance with generally accepted accounting principles (GAAP). Emphasis on the conceptual framework underlying financial accounting. Detailed study of the income statement, balance sheet, time value of money concepts, cash and receivables, and valuation of inventories. Prerequisite: BUS 2043 and BUS 2053 Credit: Three hours.

BUS 3043. Intermediate Accounting II. Study of acquisition and disposition of property, plant and equipment; depreciation, impairments, and depletion; intangible assets; current liabilities and contingencies; long-term liabilities; stockholder's equity; dilutive securities and earnings per share. Prerequisite: BUS 3023. Three lecture hours a week. Credit: Three hours.

BUS 3053. Business Finance. A discussion of the tools and techniques used in business finance. An analysis of the acquisition and allocation of financial resources. Prerequisite: BUS 2043, BUS 2053 and MATH 2203, or MATH 1703. Credit: Three hours.

BUS 3063. Income Tax Accounting I. Principles of federal income tax accounting; preparation of income tax returns for individuals. Prerequisite: BUS 2043. Credit: Three hours.

BUS 3103. Cost Accounting. Principles of cost accounting for manufacturing companies. Emphasis is on job order costing; process costing; standard costing; direct costing; accounting for by-products and joint products; and cost allocations required to produce inventory valuations acceptable for external financial statements. Prerequisite: Completion of BUS 2043 and BUS 2053. Credit: Three hours.

BUS 3113. Principles of Marketing. Presentation of a fundamental knowledge of the nature, structure, institutions, and functions of marketing; problems involved in the exchange of goods and services from producers to intermediaries to consumers. Credit: Three hours.

BUS 3133. Investments. A study, from the viewpoint of the individual investor, of various investment media, including insurance, real estate, government securities, and corporate securities; market price behavior with emphasis on investment analysis and portfolio management. Prerequisite: MATH 1703 and MATH 2203. Credit: Three hours.

BUS 3153 (same as GOV 3153)(BUSI2302). **Legal Environment.** Introduction to law and the legal professions; the role of the various actors in the legal process including lawyers, paralegals, judges, and court administrators; legal ethics; basic legal terminology; structure, functions, and political impact of the judicial system at the local, state, and national levels. Prerequisite: Three hours of government or instructors permission. Three lecture hours a week. Credit: Three hours.

BUS 3163. Business Communications. Application of fundamental communication principles to business through letters and reports. Emphasis is placed on clear, accurate, and forceful writing with the use of practical psychology. Practice in writing letters and memos, collecting and organizing data, and writing a formal report will be included. Credit: Three hours.

***BUS 3183. Introduction to International Business.** Study of the nature of international business; the scope of the international environment; the foreign nation-state environment; global strategies; management and marketing responses. Credit: Three hours.

BUS 3243. Entrepreneurship. An introduction to the planning of a small business enterprise and the decisions which must be made. Special attention is given to ethical decision areas, obstacles common to small business enterprises, small business solutions, and women/minority owned businesses. Semester project: Business Plan. Credit: Three hours.

BUS 3253. Labor Management Relations. Principles of labor problems; union structures; collective bargaining; wage determination; unemployment; labor productivity; government regulation of wages; labor legislation. Prerequisite: BUS 3003. Credit: Three hours.

BUS 3263. Accounting Ethics. Introduction to ethical theory and the analysis of social and professional issues such as: ethical decision making, independence, integrity, objectivity, core values and ethical dilemmas from the point of view of a professional accountant. Approved by the Texas State Board of Public Accountancy in sitting for the Uniform CPA Exam. Prerequisite: BUS 2043 and BUS 2053. Three lecture hours a week. Credit: Three hours.

BUS 3273. Human Resource Management. Principles of HR management; HR programming; job requirements; sources of labor supply; selection procedures; training programs; job evaluation; salary administration; employee communications; union-management relations. Credit: Three hours.

BUS 3293. Business and Legal Ethics. An introduction to ethical theory and the analysis of social and professional issues from various ethical perspectives; the course will focus on aspects of professional ethics in areas of business, government, law, and the health care professions. Credit: Three hours.

+BUS 3393. Law for Women. Impact of gender on legal status: evolution of the current legal environment with an emphasis on parallels between racial and gender discrimination; substantive law regarding working conditions, compensation, education, the family, reproductive rights and criminal law: feminist perspectives on legal reforms to improve the professional and personal lives of women and men. Credit: Three hours.

*Satisfies global perspectives graduation requirement.

+Satisfies multicultural women's studies core requirement.

****BUS 3513. Professional Presentation Strategies.** Application of fundamental presentation strategies through oral, written, and visual formats. Utilization of a wide assortment of media is encouraged to develop, stage, and deliver a variety of presentations based on the intended audience, presentation purpose, location, topic, and available facilities and equipment. Credit: Three hours.

BUS 3533. Management Information Systems. Introduction to computer-based management information systems. Total systems implementation of electronic data processing equipment and various components. Three lecture hours a week. Credit: Three hours.

BUS 4013. Alternative Dispute Resolution. Introduction to alternatives to litigation to resolve disputes. Consideration of negotiation, mediation, arbitration, moderated settlement conferences, and minitrials. Credit: Three hours.

BUS 4023. Advanced Accounting. Accounting for partnerships; installment sales; consignments; home office and branch accounting; and preparation of consolidated statements. Prerequisites: BUS 3023 and BUS 3043. Credit: Three hours.

BUS 4033. Advanced Business Law. Applied business transactions, with emphasis on the Uniform Commercial Code; emphasis on bailments, sales of goods, commercial paper, bank-customer relationships, credit or security devices, and bankruptcy. Selected topics on legal constraints affecting managerial decision making and business behavior will be covered. Prerequisite: BUS 3013 or permission of instructor. Credit: Three hours.

BUS 4063. Retailing. Principles and methods of modern retail merchandising; operating statement analysis, pricing, control, stock turnover, inventory methods, promotion, fashion, and salesmanship. Three lecture hours a week. Credit: Three hours.

BUS 4093. Principles of Selling. Study of selling as a marketing function with emphasis on the personal selling process; problems confronting sales executives in the organization, direction, and evaluation of a sales force. Credit: Three hours.

BUS 4103. Training and Development. Training and development will be studied in the context of organizational strategy. Topics such as needs analysis, training evaluation, and effectiveness and usefulness of training to the organization will be reviewed and discussed. Review of training design and implementation of training are examined. Credit: Three hours.

BUS 4113. Marketing Research. Managerial uses of research methods applied to problems of sales strategy, pricing, distribution, and the determination of marketing policies. Prerequisites: BUS 3113 and MATH 1703. Credit: Three hours.

BUS 4133. Promotion Strategy. Management of the promotional mix of advertising, publicity, sales promotion, direct marketing, and personal selling with an emphasis on advertising. This course examines the interaction and coordination of these three elements with the firm's overall marketing mix. Credit: Three hours.

****Satisfies core oral communications competency.**

BUS 4153. Services Marketing. Marketing decision-making related to the service industry. Solving marketing problems unique to the service firm. Topics include understanding service strategic issues, tools for service marketing, service intangibles, simultaneous production and consumption and internal marketing and not-for-profit issues. Three lecture hours a week. Credit: Three hours.

BUS 4163. Income Tax Accounting II. Special problems in preparing tax returns for individuals; preparation of tax returns for partnerships and corporations; preparation of employer's federal and state tax reports; study of federal estate taxes and federal gift taxes, use of computers in tax research and tax returns. Prerequisite: BUS 3063. Credit: Three hours.

BUS 4173. Accounting Information Systems. An introduction to the use of accounting information systems within an organization. The control and communication of files and databases are studied. Applications requiring the use of spreadsheets, flowcharting and relational database software applications are used in this course. Prerequisites: BUS 3023 or permission of instructor. Credit: Three hours.

BUS 4183. Governmental and Not-For-Profit Accounting. Governmental and non-profit entities with emphasis on special accounts/funds and statements used by such entities. Prerequisites: BUS 2043, 2053. Credit: Three hours.

BUS 4203. Accounting Theory. Development and present status of financial and managerial accounting theory. Generally Accepted Accounting Principles are studied in depth. Prerequisites: BUS 3043 and 3103. Credit: Three hours.

BUS 4213. Consumer Behavior. A study of consumer buying behavior in a marketing context. Analysis of factors affecting consumer motivation, behavior, and buying decisions. Credit: Three hours.

BUS 4223. Human Behavior in Business Administration. A study of the behavior of people in business and other formal organizations. Emphasis on the process of integrating employees into a work situation so that they are motivated to work together cooperatively, productively, and with economic, psychological, and social satisfaction. Three lecture hours a week. Credit: Three hours.

BUS 4243. Financial Management. Analysis of financial administration problems confronting the manager; obtaining funds; cash management; of assets; budgeting; government regulation of business financing. Prerequisites: BUS 2043, BUS 2053 and BUS 3053. Credit: Three hours.

BUS 4253. Financial Planning. Comprehensive financial planning process based on model of Board of Standards of Certified Financial Planners (CFP). Collecting client data and establishing financial objectives. Insurance planning. Investment planning. Tax planning. Retirement planning. Estate planning. Special emphasis on financial planning issues unique to women. Credit: Three hours.

BUS 4263. Finance Policy and Strategy. Financial theories and applications; making policy and strategic decisions; spreadsheet analysis, internet-based simulation, case studies, and field trips to financial institutions. Prerequisite: BUS 3053 and BUS 4243. Three lecture hours a week. Credit: Three hours.

BUS 4273. Management of Compensation. A study of the total compensation system of management. Financial considerations are related to the interrelationship between employee organization, performance, rewards, satisfaction, and appraisal. Non-financial compensations are also studied. Credit: Three hours.

***BUS 4293. International Human Resources Management.** Global practice and application of human resource management including hiring, compensation, benefits, and legal practices; impact of national and corporate culture on business operations; structures of multinational enterprises; communicating with international human resource professionals. Credit: Three hours.

BUS 4333. Business Policy. A study of the complex decision-making situations that confront management. A case study approach to the formulation of business policies. Prerequisite: Senior standing. Credit: Three hours.

***BUS 4353. International Marketing.** The course provides an overview of international markets and the marketing structures and approaches required to succeed there. The course introduces students to the various cultural contexts that have to be taken into account while developing marketing strategy. Case discussions and projects are used to help students understand how intercultural and cross national differences have to be managed while formulating and implementing marketing strategy. Credit: Three hours.

BUS 4363. Merchandise Management. Study of factors necessary for profitably buying merchandise and managing retail inventories. Emphasis on role of buyer, markup planning, development of merchandise plans and open-to-buys, vendor relations. Prerequisite: BUS 3113. Three lecture hours a week. Credit: Three hours.

BUS 4413. Tax Research. A study of primary and secondary online tax research materials, including RIA and CCH. Assignments include determining what information is needed for a specific tax problem, as well as finding, analyzing and communicating the information. Prerequisite: BUS 3063 or permission of instructor. The course is totally online. Credit: Three hours.

BUS 4423. Auditing. Auditing concepts, standards, and objectives; auditing procedures and sampling techniques; internal control evaluation; the writing of the audit report. Prerequisites: BUS 3043 and 3103 or 3123. Three lecture hours a week. Credit: Three hours.

BUS 4443. Small Business Management. Designed to provide theory and practical experience in the analysis of various small business operations. The integration and application of knowledge across functional areas are stressed. Credit: Three hours.

BUS 4503. Internet Marketing. Students will learn how the internet is used to enhance marketing functions. Topics include internet-based communications, direct marketing over the internet, and database applications. Students will get hands-on experience with web page design. Prerequisite: BUS 3113 or permission of instructor. Credit: Three hours.

*Satisfies global perspectives graduation requirement.

BUS 4543. Quantitative Management Analysis. Introduction of models that have practical applications for managers in business and industry. Prerequisites: MATH 2203. Credit: Three hours.

BUS 4553. Advanced Marketing. Problems of marketing management including the development of appropriate marketing strategies, planning and operations and adjustments to changing environments and institutions in the marketplace. The managerial use of marketing tools in product development, market penetration, sales planning, forecasting, budgeting, consumer motivation, competitive strategy, and distribution cost control. Prerequisites: BUS 3113, Senior standing. Credit: Three hours.

BUS 4653 Financial Risk Management. Corporate financial risk management tools and techniques including the role of derivative securities and the structure of markets for trading risk. Prerequisites: BUS 3053, BUS 3133, MATH 1703, and MATH 2203. Three lecture hours a week. Credit: Three hours.

BUS 4753. Advanced Quantitative Management Analysis. In-depth analysis of models with practical applications for managers in business and industry; regression models, forecasting, linear programming, inventory control models, and transportation and assignment models. Credit: Three hours.

BUS 4903. Selected Topics in Business. Variable content. Topics selected as needed. Credit: Three hours.

BUS 4913. Independent Study. Individual projects and planned readings in business. Prerequisite: Permission of department. Credit: Three hours.

BUS 4953, 4956. Cooperative Education.

Economics Undergraduate Courses

***ECO 1013. Principles of Microeconomics** (ECON 2302). Structure and operation of the economy explained through the role of microeconomic forces; price system; theory of firm; market situations (pure competition, monopoly, oligopoly); evaluation of the distribution of income. Credit: Three hours.

***ECO 1023. Principles of Macroeconomics** (ECON 2301). A macroeconomic analysis covering money and banking, gross national product and income accounting, public finance, principles of taxation, labor, international economics (balance of payments), comparative economic systems. Credit: Three hours.

ECO 3063. Money and Banking. A survey of the role of money; history of currency; recent monetary legislation; banking and financial institutions; the Federal Reserve System; money and the national income; monetary and fiscal policy. Prerequisites: Junior standing and ECO 1013 or 1023. Credit: Three hours.

****ECO 3223. International Finance and Trade.** Trade and monetary concepts in international economics including consequences of intervention in trade; the balance of payments, theory, adjustments and impact on world trade; instruments and markets of foreign exchange; and determination of exchange rates. Credit: Three hours.

* Satisfies core Social Sciences requirement.

**Satisfies global perspectives graduation requirement.

ECO 4913. Independent Study. Individual projects and planned readings in economics. Prerequisite: Permission of instructor. Credit: Three hours.

Graduate Courses

Please refer to the Graduate Catalog or the department website for information about our graduate courses.

Programs in Fashion and Textiles

Program Director: Deborah D. Young, Professor

Location: OMB 415

Telephone: (940) 898-2661

FAX: (940) 898-2711

e-mail: FT@TWU.EDU

www.twu.edu/fashion

Faculty: Professor C. Riggs; Associate Professor S. Dragoo; Assistant Professor A. Magie.

Fashion and Textiles offers degree programs leading to the Bachelor of Science degree in Fashion Merchandising and the Bachelor of Arts degree in Fashion Design.

The academic programs for the degrees in Fashion Merchandising and Fashion Design stress a strong liberal arts background by requiring courses in English, history, government, mathematics, social science, art, and computer science. In addition, fashion majors at TWU acquire the basic knowledge, skills, and professional contacts that are vital to success in the fast-paced, global textile and apparel industry. The programs emphasize preparing students to succeed in the fashion industry. Faculty members with industry experience and educational background in merchandising, fashion design, or textiles actively teach and conduct research within the department.

Program facilities for teaching and research are extensive. The program is a member of the National Retail Federation and the International Council of Shopping Centers.

All classes offered by Fashion and Textiles are located on the Denton campus. However, the geographical location of the University, approximately thirty-eight miles north of the extensive Dallas fashion market, provides students with easy access to the fashion industry and to industry professionals. In addition, Fashion and Textiles requires each student to participate in an internship experience which provides students with industry experience in fashion-oriented fields.

Undergraduate Degrees

B.S. in Fashion Merchandising

B.A. in Fashion Design

Please visit the Fashion and Textiles home page at www.twu.edu/fashion for more information, including specific degree plans.

Admission Requirements

Please see Admission section of this catalog. The same standards for admission to the University apply to admission to the Fashion Merchandising program. Students applying to the Fashion Design program will be admitted to the University under the same standards, but will be admitted only provisionally to the Fashion Design program until the completion of FT 1013, FT 2013, and FT 2113 with a grade of “C” or better *during the first enrollment*. The only exception to this requirement is withdrawal from any of the courses during the first enrollment for medical reasons; students would be allowed a second enrollment. Students will be given full admission to the Fashion Design program after the provisional requirements are met. Students not given full admission to the Fashion Design program will be required to complete a change of major.

Special Program Requirements

All students majoring or minoring in Fashion Merchandising or Fashion Design are required to earn a C or better in all Fashion and Textiles, Business, and Math courses applied toward the degree, including transfer credits. All students, regardless of core completion must take MATH 1013 or equivalent.

Minors Offered

Minors are offered by Fashion and Textiles in Fashion Merchandising and Fashion Design. A current list of courses required for minors in these programs is available from the program office. Typically, a minor comprises a minimum of eighteen (18) semester hours in the field, six (6) of which are at the advanced level.

Core Curriculum

Specific Core Curriculum courses required for the Fashion Merchandising and Fashion Design degrees are subject to change based on the availability of approved core curriculum courses. Complete University-wide requirements for the Bachelor of Science and the Bachelor of Arts degrees are listed in the Academic Information section of this catalog.

Bachelor of Science in Fashion Merchandising

General Description

Students who plan to work in fashion or retail management, selling, or buying should consider the Fashion Merchandising program. Students choosing the major will learn about merchandising, retailing, planning and control, consumers, retail buying, and fashion promotion. Graduates will be prepared to buy, promote, and sell merchandise for retailers and wholesalers, and to merchandise, promote, and sell products for manufacturers. Career opportunities in merchandising are projected to be strong well into the 21st century. Individuals who are assertive, flexible, and resourceful; like to work with people; and can assume responsibility, make

quick decisions, and think clearly have the traits necessary for successful careers in fashion merchandising. Graduates can pursue careers as buyers, department managers, merchandise managers, store managers, store owners, sales representatives, merchandisers, merchandise allocators, merchandise planners, merchandise analysts, mall marketing directors, and fashion directors.

Courses Required

For the bachelor's degree in Fashion Merchandising, students must complete the university core curriculum courses specified on the current program degree plan available from program advisors.

Degree Emphasis

Because the skills and knowledge needed for career positions in the fashion industry vary depending on the type of position, two distinct emphases are available for the bachelor's degree in Fashion Merchandising: the Management emphasis and the Planning emphasis. The Management emphasis is designed for those who plan to work in fashion or retail management, selling, or promotion careers, primarily in store environments. The Planning emphasis is designed for those who plan to work in retail buying and merchandise management careers, primarily in corporate environments. Differences in the emphases focus on math and business requirements. The degree plan shown below is the bachelor's degree in Fashion Merchandising, Management emphasis. The degree plan for the bachelor's degree in Fashion Merchandising, Planning emphasis can be found at www.twu.edu/fashion/degree-plans.asp or obtained through the program office.

Bachelor of Science in Fashion Merchandising (120 hours)

Requires a minor in Marketing

FIRST YEAR

First Semester	Second Semester
FT 1003 Principles of Design Dev. 3	FT 1073 Textiles 3
FT 1083 Fashion Products and Industries.. 3	CSCI 2433 Microcomputer Applications* 3
ENG 1013 Composition I 3	ENG 1023 Composition II..... 3
HIST 1013 U.S. History, 1492 - 1865... 3	HIST 1023 U.S. History, 1865 to pres. 3
MATH 1013 Quantitative Literacy* 3	MATH 1303 Elementary Analysis I* 3
Total Hours 15	Total Hours 15

SECOND YEAR

First Semester	Second Semester
FT 2033 Prin. of Fashion Marketing. 3	FT 2403 Production Techniques..... 3
BUS 2043 Fund. of Accounting I 3	FT 3103 Merch. Planning and Control..... 3
ECO 1013 Microeconomics..... 3	BUS 3003 Principles of Management..... 3
or 1023 Macroeconomics*	GOV 2023 Texas Government 3
GOV 2013 U.S. Government 3	SCI 3 credit hours..... 3
SCI 3 credit hours 3	
Total Hours 15	Total Hours 15

THIRD YEAR

First Semester	Second Semester
FT 3043 Global Prod. & Trade* 3 (global perspectives)	FT 3023 Career Development Strategies...3
FT 3063 Fashion Promotion..... 3	FT 4603 Fash. Event Plan & Prod3
FT 3203 Quality Assurance & Tex Eval...3	BUS 3513 Prof. Presentation Strategies*...3 (oral communication)
BUS 3113 Prin. of Marketing 3	Humanities 3 credit hours3
BUS 3273 Human Resource Mgmt. 3	FT 4976 Internship (summer)..... 6
Total Hours 15	Total Hours 18

FOURTH YEAR

First Semester	Second Semester
FT 4083 Global Perspectives of Dress and Adornment* (global persp.).... 3	FT 4103 Advanced Merchandise Planning and Control3
BUS 4093 Principles of Selling 3	FT 4113 Retail Buying.....3
BUS 4213 Consumer Behavior 3	BUS 4063 Retailing.....3
MULTI/WS 3 credit hours 3	BUS 4503 Internet Marketing3
Visual and Performing Arts..... 3	or BUS 4103 Training and Development or BUS 4133 Promotion Strategy
Total Hours 15	Total Hours 12

* indicates specific program requirements for core curriculum courses and competencies

Total hours needed for major: 48. Total hours for minor: 27. Total hours needed for degree: 120. All students must complete six credit hours in approved Global Perspectives courses, either in the core or major courses (graduation requirement).

Bachelor of Arts in Fashion Design

General Description

The Fashion Design program provides extensive preparation for individuals seeking industry positions in the design and production components of the fashion industry. Students choosing the fashion design major will design, develop, and construct apparel and related products, while learning about design, product development, apparel construction, fashion sketching, textiles, computer-aided design, pattern making, and draping. An emphasis on the creative and business aspects of the industry prepares graduates to design and develop merchandise for manufacturers, wholesalers, and retailers. Graduates can pursue careers as apparel designers and design assistants, stylists, fashion coordinators, pattern makers, sample makers, production managers, product developers, quality assurance technicians, quality control supervisors, computer-aided design (CAD) system operators, and fashion consultants.

Courses Required

For the bachelor's degree in Fashion Design, students must complete the university core curriculum and courses specified on the current program degree plan. Plans are obtained from program advisors.

Bachelor of Arts in Fashion Design (120 hours)

FIRST YEAR

First Semester	Second Semester
FT 1003 Principles of Design Dev..... 3	FT 1073 Textiles3
FT 1013 Princ. and Techniques of Design Construction.....3	FT 2013 Fundamentals of Fashion3
ART 1303 Basic Drawing* 3	Sketching
ENG 1013 Composition I 3	FT 2113 Tech. of Pattern Design.....3
MATH 1013 Quantitative Literacy* 3	ENG 1023 Composition II3
	MATH 1303 Elementary Analysis I* 3
Total Hours 15	Total Hours 15

SECOND YEAR

First Semester	Second Semester
FT 1083 Fashion Products and Industries 3	FT 3103 Merchandise Planning3
FT 2033 Prin. of Fashion Marketing..... 3	and Control
FT 2403 Production Techniques 3	FT 3403 Draping and Couture Tech.3
ART 2303 Figure Drawing 3	ART 2223 Intro. to Computer Based Art...3
HIST 1013 U.S. History, 1492-1865..... 3	CSCI 2433 Microcomputer Applications* 3
	HIST 1023 U.S. History, 1865 - Present 3
Total Hours 15	Total Hours 15

THIRD YEAR

First Semester	Second Semester
FT 3013 History of Costume..... 3	FT 3023 Prof. Career Development3
FT 3203 Quality Assurance and Textile Evaluation 3	FT 3043 Global Prod. and Trade* (global)3
FT 4403 Contemporary Tailored Design. 3	FT 4603 Fashion Event Planning and Production.....3
ECO 1013 Microeconomics..... 3	Humanities (core)3
or ECO 1023 Macroeconomics*..... 3	FT 4966 Internship (summer)6
GOV 2013 U.S. Government..... 3	
Total Hours 15	Total Hours 18

FOURTH YEAR

First Semester	Second Semester
FT 4033 Fashion Portfolio Dev..... 3	FT 4213 Collection Design & Dev.....3
FT 4083 Global Perspectives of Dress and Adornment* (global)..... 3	GOV 2023 Texas Government3
FT 4303 Computers in Fashion Design. 3	Multicultural Women's Studies (core).....3
BUS 3113 Principles of Marketing..... 3	Natural Science (core).....3
Natural Science (core)..... 3	
Total Hours 15	Total Hours 12

* indicates specific program requirements for core curriculum courses and competencies.

Note: Oral communication requirement will be met through documented completion at TWU of oral presentations in FT 2403, FT 4033, and FT 4213.

All students must complete six credit hours in approved Global Perspectives courses, either in the core or major courses (graduation requirement).

Fashion and Textiles Undergraduate Courses

FT 1003. Principles of Design Development. Principles and elements of visual design as applied to the selection and design of fashion-oriented products. Includes investigation of aesthetic concepts and philosophies. Three lecture hours a week. Credit: Three hours.

FT 1013. Principles and Techniques of Design Construction. (HECO 1328) Comprehensive study of apparel design construction and assembly techniques. One lecture and four laboratory hours a week. Credit: Three hours.

FT 1073. Textiles. Properties of textile structures, including examinations of fibers, fabrics, dyes, and finishes. Two lecture and two laboratory hours a week. Credit: Three hours.

FT 1083. Fashion Products and Industries. A detailed study of the design, production, and distribution of fashion products and related industries. Focus will be on the apparel, accessory, and home segments of the fashion industry. Three lecture hours a week. Credit: Three hours.

FT 2013. Fundamentals of Fashion Sketching. Exploration of techniques of quick sketching using various media and professional materials to communicate original design ideas. Basic proportions of the female fashion figure are emphasized with an introduction to male figures. Prerequisite: ART 1303. One lecture and four laboratory hours a week. Credit: Three hours.

FT 2033. Principles of Fashion Marketing. Basic marketing and merchandising principles, concepts, and practices utilized in the operation of fashion-oriented businesses. Three lecture hours a week. Credit: Three hours.

FT 2113. Techniques of Pattern Design. An introductory course of basic principles of flat pattern drafting. Scientific development of the master block and its use in drafting patterns according to professional standards. Adaptation of master block into basic styles for the fashion industry. Prerequisite: FT 1013. One lecture and four laboratory hours a week. Credit: Three hours.

****FT 2403. Production Techniques.** Identification, analysis, and application of production processes and techniques. Focus is on the activities included in the design and production of diverse, mass marketable fashion products, including creating specifications and costing. Prerequisites: FT 1013, FT 2013, and FT 2113 for Fashion Design majors and FT 1003 and FT 2033 for Fashion Merchandising majors and all majors outside the program. One lecture and four laboratory hours a week. Credit: Three hours.

FT 3013. History of Costume. A study of clothing for women, men and children in the Western hemisphere from prehistoric times to the present. Social, economic, technological, and cultural contexts examined for the evolution and succession of styles. Three lecture hours a week. Credit: Three hours.

FT 3023. Career Development Strategies. Career development assessment with a focus on successful employment and managerial strategies. Course objectives lead to providing information necessary for individuals aspiring to management and leadership positions in businesses. Prerequisite: Junior standing. Three lecture hours a week. Credit: Three hours.

***FT 3043. Global Production and Trade.** National and global patterns of production and trade in the textile and apparel industries. Emphasis is on the manufacture, marketing, and distribution activities used in developing competitive strategies of textiles and apparel. Prerequisite: Junior standing. Three lecture hours a week. Credit: Three hours.

FT 3063. Fashion Promotion. Function, principles, methods, and evaluation of visual merchandising, advertising, special events, and public relations. Prerequisite: FT 2033. Three lecture hours a week. Credit: Three hours.

FT 3103. Merchandise Planning and Control. Same as BUS 4363. Techniques for profitable merchandise planning and control; managing merchandise through numerical concepts and calculations. Prerequisites: FT 2033, MATH 1013, MATH 1303 or 1703, and BUS 2043 for Fashion Merchandising majors, and FT 2033, MATH 1013, and MATH 1303 for Fashion Design majors and all majors outside the program. Three lecture hours a week. Credit: Three hours.

FT 3173. Global Fashion Study. A professional study experience which provides students with an overview of the fashion industry. May include tours of manufacturing facilities, manufacturing-related companies, design facilities, retail stores, shopping centers, manufacturer's showrooms, trade associations, and auxiliary enterprises. Permission of the instructor required for enrollment. May be repeated twice for credit. One lecture and six laboratory hours a week. Credit: Three hours.

FT 3203. Quality Assurance and Textile Evaluation. Analysis and evaluation of the quality and performance of textile-based products. Specific topics include understanding quality assurance, materials testing, product specifications and analysis, and data analysis. Prerequisites: FT 1073 and FT 2403. Three lecture hours a week. Credit: Three hours.

FT 3403. Draping and Couture Techniques. Drafting and draping techniques applied to complex design problems. Advanced pattern drafting and construction using couture techniques. Original design sketches translated from muslin drape to finished garment using contemporary and couture production methods. May be taken for up to six (6) hours of credit. Prerequisite: FT 2403. One lecture and four laboratory hours a week. Credit: Three hours.

****FT 4033. Fashion Portfolio Development.** Development of the portfolio containing original design work, flats and specifications, photographs, and available trend resources. Finished illustration techniques are emphasized using various media. Focus on professional layout and production of work for design presentations. May be repeated up to one (1) time for additional credit. Prerequisite: FT 2013 and FT 3403. One lecture and four laboratory hours a week. Credit: Three hours.

***FT 4083. Global Perspectives of Dress and Adornment.** Examines personal appearance practices, beliefs, and attitudes of diverse cultures throughout the world specifically focused on dress and adornment. Includes review of Western and Eastern dress. Focus on understanding appearance as a universal non-verbal form of communication. Three lecture hours a week. Credit: Three hours.

*Satisfies global perspectives requirement for graduation.

** Satisfies oral communication core competency requirements.

FT 4103. Advanced Merchandise Planning and Control. Advanced techniques for profitable merchandise planning and control. Focus is on advanced concepts of planning, inventory management, and measures of performance. Inter-related functions of planning and control examined through case study. Includes learning to use computerized spreadsheets as decision-making tools. Prerequisite: FT 3103. Three lecture hours a week. Credit: Three hours.

FT 4113. Retail Buying. An introduction to retail buying, including an examination of the fundamentals of effective buying and the responsibilities of buyers employed at different types of retail formats. Prerequisites: FT 3103 and FT 3063. Three lecture hours a week. Credit: Three hours.

****FT 4213. Collection Design and Development.** A capstone course emphasizing the synthesis of design concepts and construction methods in line and collection development for the fashion industry. Focus is on creating original, marketable design concepts translated through illustrations and construction of designs. Content includes market forecasting and fashion show production. May be taken for up to six (6) hours of credit. Prerequisites: FT 3403 and FT 4403. One lecture and four laboratory hours a week. Credit: Three hours.

FT 4303. Computers in Fashion Design. Focus on the use of computer-based technologies for the development and production of advanced fashion designs and patterns. Prerequisite: FT 2113 and CSCI 2433. One lecture and four laboratory hours a week. Credit: Three hours.

FT 4403. Contemporary Tailored Design. Overview of current industry tailoring production methods. Application of methods and techniques used in mass production and traditional tailoring for women's and men's suiting and outerwear. May be taken for up to six (6) hours of credit. Prerequisite: FT 2403. One lecture and four laboratory hours a week. Credit: Three hours.

FT 4603. Fashion Event Planning and Production. Development and production of promotional and special fashion events including fashion shows, exhibitions, displays, and other activities. Teaching and application focus on professional presentation styles and industry-driven approaches to promotion. Concepts of time and resource management are taught and applied. Prerequisites: FT 1003, FT 2033, and Junior standing. May be repeated once for credit. One lecture and four laboratory hours a week. Credit: Three hours.

FT 4921. Independent Study in Fashion Design. Intensive study of topic of individual or professional interest. May be repeated for additional credit. Enrollment must be approved by the instructor. Credit: One hour.

FT 4923. Independent Study in Fashion Design. Intensive study of topic of individual or professional interest. May be repeated for additional credit. Enrollment must be approved by the instructor. Credit: Three hours.

FT 4931. Independent Study in Fashion Merchandising. Intensive study of topic of individual or professional interest. May be repeated for additional credit. Enrollment must be approved by the instructor. Credit: One hour.

FT 4933. Independent Study in Fashion Merchandising. Intensive study of topic of individual or professional interest. May be repeated for additional credit. Enrollment must be approved by the instructor. Credit: Three hours.

* Satisfies global perspectives graduation requirement.

**Satisfies oral communication core competency requirement.

FT 4963. Internship in Fashion Design. Work-study experience arranged between the University; a student; and a business, government agency, organization, or association. Transfers knowledge and skill from the classroom into abilities required for a career. Enrollment in the course and employment position must be approved by the instructor. Students must work a minimum of 200 hours throughout the entire semester. May be repeated three (3) times for credit. Prerequisites: FT 3403, FT 4403, and 75 credit hours with an overall GPA of 2.00. Credit: Three hours.

FT 4966. Internship in Fashion Design. Work-study experience arranged between the University; a student; and a business, government agency, organization, or association. Transfers knowledge and skill from the classroom into abilities required for a career. Enrollment in the course and employment position must be approved by the instructor. Students must work a minimum of 400 hours throughout the entire semester. May be repeated one (1) time for credit. Prerequisites: FT 3403, FT 4403, and 75 credit hours with an overall GPA of 2.00. Credit: Six hours.

FT 4973. Internship in Fashion Merchandising. Work-study experience arranged between the University; a student; and a business, government agency, organization, or association. Transfers knowledge and skill from the classroom into abilities required for a career. Enrollment in the course and employment position must be approved by the instructor. Students must work a minimum of 200 hours throughout the entire semester. May be repeated three (3) times for credit. Prerequisites: FT 3063, FT 3103, and 75 credit hours with an overall GPA of 2.00. Credit: Three hours.

FT 4976. Internship in Fashion Merchandising. Work-study experience arranged between the University; a student; and a business, government agency, organization, or association. Transfers knowledge and skill from the classroom into abilities required for a career. Enrollment in the course and employment position must be approved by the instructor. Students must work a minimum of 400 hours throughout the entire semester. May be repeated one (1) time for credit. Prerequisites: FT 3063, FT 3103, and 75 credit hours with an overall GPA of 2.00. Credit: Six hours.

Department of Health Systems Management

DALLAS

Program Director: Rob Maurer, Associate Professor

Location: IHSD 8710

Telephone: (214) 689-6560

Faculty: Professor P. Driscoll; Associate Professor R. Maurer.

The mission of the graduate program in Health Systems Management at Dallas is to provide high quality post-baccalaureate educational programs in health services management to prepare graduates for professional management careers in the health care industry.

The curriculum is designed to prepare students to be problem solvers and independent thinkers, while also emphasizing the role of managers as team leaders in health care organizations that must adapt to the constantly changing needs of a rapidly evolving marketplace. The academic program emphasizes four general skill/knowledge areas:

Management Sciences - Organizational structure analysis, statistical and quantitative analysis, economic and financial analysis, accounting and management information systems, behavioral theory and social psychology, and human resource management.

The Health Care Environment - History and organization of the health care system, factors influencing system financing and utilization of health care services, the measurement of health/health status and the quality of health care services, health care policy, and legal aspects of the health care environment.

Strategy and Product Management - Policy analysis, performance measurement and reporting systems, computer-based decision support systems, and the marketing of health care services.

Leadership - Organizational effectiveness and leadership behavior, ethics and ethical analysis, and social/community responsibility.

Graduate Courses

Please refer to the Graduate Catalog or the department website for information about our graduate courses.

Department of Biology

Chair: Sarah A. McIntire, Professor

Location: GRB 230

Telephone: Denton (940) 898-2351

Telefax: (940) 898-2382

E-mail: Biology@twu.edu

www.twu.edu/biology

Faculty: Professors M. McArthur, S. McIntire, N. Mills, L. Uphouse, A. Waldo; Associate Professors M. Bergel, D. Hynds, C. Maier, H. Conrad-Webb; Assistant Professors B. Beck, L. Hanson, S. Westmoreland. Laboratory Coordinators S. Ahmed, R. Smiddy Foreman.

The Department of Biology is diversified so that students may select a curriculum that fits their choice of professions. These include a major in Biology; a major in Biology with emphasis on preparation for Medical, Dental or Veterinary School; a major in Biology with Research Emphasis; a major in Biology with emphasis on preparation for a Physical Therapy career; or a major in Biology Education. Students with emphasis in any of these areas are advised by a special advisor and should follow the specific recommendations outlined in the respective study plan. There is also the option to major in Biology in preparation for the Medical Technology Degree, which begins with a major in Biology for three years before entering a Medical Technology School. Please see the next section on the Medical Technology program.

The Department of Biology also offers a minor in Biology and in General Science, a Master of Science and a Ph.D. in Molecular Biology. For graduate offerings, please refer to the graduate catalog.

Admission Requirements

Please see Admission section of this catalog.

Undergraduate Degrees

All bachelor's degrees in Biology require a minimum of 120 semester credit hours and a minor of at least 18 semester hours of which a minimum of 6 semester hours must be upper division. Consult the minor department for any additional requirements. The minor requirement may be waived for students who enter the graduate degree program in Physical Therapy.

B.S. in Biology

B.S. in Biology with Teacher Certification

For more information about the department, please visit the department's web page.

Bachelor of Science Degree in Biology

This option is open also to undergraduate students who plan to seek admission to Medical, Dental or Veterinary Schools. Medical School applications also require Math 2014 (preferred) or Math 1703.

Biology Courses Required

BIOL 1113. Principles of Biology I
 BIOL 1111. Principles of Biology Lab
 BIOL 1123. Principles of Biology II
 BIOL 1121. Principles of Biology II Lab
 BIOL 4681. Seminar
 BACT 3111 and 3113. General Microbiology
 ZOOL 4241 and 4243. Mammalian Physiology
 BOT 2111 and 2113. Plant Biology
 BIOL 4811 and 4813 Mol/Cell. Biol.: Gene Expression
 BIOL 4821 and 4823 Mol/Cell. Biol.: Genetics

The remaining courses in Biology to satisfy the total 36 credit hours requirement may be elected from any of the Biology courses at the 3000 level or above (fifteen credits in advanced hours are required.)

Additional Required Courses

CHEM 1113. Chemical Principles I, and
 CHEM 1111. Chemical Principles I Lab
 CHEM 1123. Chemical Principles II, and
 CHEM 1121. Chemical Principles II Lab
 CHEM 2213. Organic Chemistry I, and
 CHEM 2211. Organic Chemistry I Lab
 CHEM 3223. Organic Chemistry II, and
 CHEM 3221. Organic Chemistry Lab

Six hours of College Algebra and Trigonometry (Math 1303 and 1313), or one course in calculus, eight hours of a two-semester sequence of Physics (the calculus-based sequence is strongly recommended).

Bachelor's of Science in Biology (120 hours)

FIRST YEAR

First Semester	Second Semester
BIOL 1111,1113 Princ. Biol. I..... 4	BIOL 1121,1123 Princ. Biol II4
CHEM 1111,1113 Chem. Princ. I 4	CHEM 1121, 1123 Chem. Princ. II..... 4
ENG 1013 Composition I 3	ENG 1023 Composition II.....3
MATH 1303 Elem. Anal. I..... 3	MATH 1313. Elem. Anal. II3
Total Hours 14	Total Hours 14

SECOND YEAR

First Semester	Second Semester
BOT 2111.2113. Plant Biology 4	BACT 3111, 31134
CHEM 2211, 2213 Org. Chem. I..... 4	CHEM 3221, 32234
Humanities (core)..... 3	HIST 1023 U.S. History 1865-Present3
HIST 1013 U.S. History 1492-1865 3	Visual/Perf. Arts (core).....3
MATH 1013 Quant. Literacy 3	
Total Hours 17	Total Hours 14

THIRD YEAR

First Semester		Second Semester	
BIOL 4811, 4813	4	BIOL 4821, 4823	4
PHYS 1131, 1133 or 2151, 2153	4	PHYS 1141, 1143 or 2161, 2163	4
GOV 2013 U.S. Government.....	3	GOV 2023 Texas Government.....	3
Social/Behavioral Science (core).....	3	Computer Competency:	3
Minor Elective	3	CSCI 1413 or Exam	
Total Hours	17	Total Hours	14

FOURTH YEAR

First Semester		Second Semester	
ZOOL 4241, 4243	4	BIOL 4681 Biology Seminar	1
BIOL Elective.....	4	BIOL Electives	6
Multicultural Women's Studies (core)...	3	Minor or General Electives	3
Minor or General Elective	2	General Elective	4
Minor or General Elective	3		
Total Hours	16	Total Hours	14

All students must complete six credit hours in approved Global Perspectives courses, either in the core or major courses (graduation requirement).

Biology Major with Research Emphasis (120 hours)

This option is open to undergraduate students who wish to gain knowledge and experience in performing biology laboratory research and plan to pursue a career in scientific research and/or biotechnology. They also may plan to pursue a masters-level or doctoral-level program in the sciences or attend a professional school. The advantage of this program is the requirement for at least three semesters of undergraduate research experience. Admission to this program is by application only. Students should have applied for admission to the program by the beginning of their Sophomore year. Application forms may be obtained from the departmental secretary.

During the first three years of the program, students complete their core requirements for the B.S. degree in Biology (Ecology is not required) and their core requirements in Chemistry. Before the Junior year, students should have initiated a research project with a Biology faculty member. Students must complete three (3) semesters of undergraduate research and must be enrolled in Biol 4983 each semester while involved in the research project. This project culminates in the Senior year with preparation of a publishable Senior Thesis. Additional required elective courses in Biology and Chemistry are selected through consultation with their Biology Department advisor.

Biology Major Pre-Physical Therapy (120 hours)

This option is open to undergraduate students who plan to pursue a doctoral-level degree program in Physical Therapy.

During the first three years of this program, students complete their core requirements for the B.S. degree in Biology. Students must complete 28 hours of biological science and a total of 112 hours including 28 upper level hours before entering the Physical Therapy graduate program. Eight credit hours of coursework taken during the first term of the Physical Therapy clinical program will count as upper level biology credit for the B.S. degree.

Bachelor of Science in Biology with Teacher Certification (120 hours)

The Department of Biology offers a degree in Biology which also includes the courses and requirements leading to completion of a Texas Secondary Teaching Certificate. The Bachelor of Science degree leading to teacher certification in Biology requires a total of 120 hours with 32 hours in Biology, 16 of which must be at the 3000 level or above, and which must also include:

BIOL 1113. Principles of Biology I, and
BIOL 1111. Principles of Biology I Lab
BIOL 1123. Principles of Biology II, and
BIOL 1121. Principles of Biology II Lab
BOT 2111, 2113. Plant Biology
BACT 3111, 3113 General Microbiology
ZOOL 4241, 4243 Mam. Phys.
BIOL 4221, 4223 Ecology
BIOL 4811/4813 Mol./Cell. Biol.: Gene Expression
BIOL 4821/4823 Mol./Cell. Biol.: Genetics

The requirements for Biology majors in mathematics, chemistry, and physics must also be met.

A minor of 18 hours must be selected and chemistry is recommended. The addition of Chemistry 3334 Quantitative Analysis to the program will satisfy the requirements for a chemistry minor. Completion of teacher education requirements will automatically lead to a minor in education.

An additional 23 hours of education are required for teacher certification. For details and specific courses, see the Biology Department teacher education advisor.

Biology Minor

A minor in biology requires 18 semester hours, six of which must be advanced.

General Science Minor

In cooperation with the Department of Chemistry and Physics, the Department of Biology offers a minor in General Science. See the Minor in General Science in the Academic Information section of this catalog for course requirements.

Medical Technology

Program Director: Sarah McIntire, Professor

Program Advisor: Kirsten Donohoo

Location: GRB 329

Telephone: (940) 898-3328

The Medical Technology Program (also known as Clinical Laboratory Sciences) is offered through the Department of Biology. The program is designed to prepare the student as a member of the health services team and leads to the Bachelor of Science degree. The student completes the pre-clinical phase during the first three years in the program and begins the clinical sequence in the senior year. This year is completed at a major medical technology school approved by TWU and the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

The medical technologist becomes increasingly important as new and more effective techniques of laboratory diagnosis are developed. In addition, positions are frequently available in medical research. Career opportunities are found throughout the country in large and small communities.

Admission Requirements

Please see admission section of this catalog.

Undergraduate Degree

B.S. in Medical Technology

General Description

Total hours required: Minimum 120 semester hours, including minor and clinical year.

In addition to the general degree requirements, specific prerequisite courses (or their equivalent) which are required at the time of application for admission to the Medical Technology program are:

- BIOL 1113. Principles of Biology I
- BIOL 1111. Principles of Biology I Laboratory
- BIOL 1123. Principles of Biology II
- BIOL 1121. Principles of Biology II Laboratory
- BIOL 4811/4813. Mol/Cell. Biol.: Gene Expression
- BOT 2113. Plant Biology
- BOT 2111. Plant Biology Laboratory
- BACT 3111, 3113. General Microbiology
- BACT 4111, 4113. Immunology
- Biology Electives, six advanced semester hours
- CHEM 1113. Chemical Principles I
- CHEM 1111. Chemical Principles Laboratory I
- CHEM 1123. Chemical Principles II

CHEM 1121. Chemical Principles Laboratory II
CHEM 2213. Organic Chemistry I
CHEM 2211. Organic Chemistry Laboratory I
CHEM 3223. Organic Chemistry II
CHEM 3221. Organic Chemistry Laboratory II
CHEM 3334. Quantitative Analysis
MATH 1303. Elementary Analysis or equivalent
MATH 1313. Elementary Analysis or equivalent
PHYS 1133. Principles of Physics
PHYS 1131. Principles of Physics Laboratory

During the first three years of this program, students complete core requirements toward preparation for clinical training in a Medical Technology School or a hospital. Students may need to complete some of this coursework during summer sessions in order to finish classes within a three year period. The senior year will be spent at a hospital with a contractual agreement with TWU.

General types of courses in the senior year include studies in the areas of microbiology, parasitology, clinical chemistry, hematology, serology, urinalysis, mycology, and histology.

Clinical year arrangements are made with the Director of the Medical Technology Program. The clinical component credits will be transferred to this University as 30 or more advanced semester hours credit.

Minor

No minor is offered in Medical Technology.

The minor in chemistry is incorporated within the Medical Technology curriculum.

The courses required are:

CHEM 1111. Chemical Principles Laboratory I
CHEM 1113. Chemical Principles I
CHEM 1121. Chemical Principles Laboratory II
CHEM 1123. Chemical Principles II
CHEM 2211. Organic Chemistry Laboratory I
CHEM 2213. Organic Chemistry
CHEM 3221. Organic Chemistry Laboratory II
CHEM 3223. Organic Chemistry II
CHEM 3334. Quantitative Analysis

Certification

Completion of the Program qualifies the Medical Technology student to take the National Registry Examination for certification as MT (ASCP).

Undergraduate Courses

None; see recommended program.

For further information, please write:

Director, Medical Technology
 Texas Woman's University
 P.O. Box 425799
 Denton, Texas 76204-5799
 E-mail: smcintire@twu.edu

Biology Undergraduate Courses

BIOL 1001. Biology for the 21st Century Laboratory. Experiences to emphasize biological concepts introduced in BIOL 1003. Emphasis will be on building a working knowledge of basic biological concepts from genetics, cell biology and metabolism. Co-requisite: BIOL 1003. Three laboratory hours a week. Credit: 1 hour

***BIOL 1003. Biology for the 21st Century.** Explores recent developments in biology such as genetics, cell regulation and metabolism in relation to cancer, stem cell biology, forensics and medicine. Develops skills in problem solving and critical thinking. Corequisite: BIOL 1001. Three lecture hours a week. Credit: 3 hours.

BIOL 1011. Human Biology Lab. Laboratory studies of form and function of the human body. For non-science majors. Corequisite: BIOL 1012. Three laboratory hours a week. Credit: One hour.

***BIOL 1012. Human Biology.** Form and function of human bodies; provides a basis for understanding interrelationships between individuals, groups, and environments. For non-science majors. Two lecture hours a week. Corequisite: BIOL 1011. Credit: Two hours.

BIOL 1021. Environmental Laboratory. (BIOL 2106) Field and laboratory experiments designed to help the non-science major appreciate the biological environment. Corequisite: BIOL 1022. Three laboratory hours a week. Credit: One hour.

***BIOL 1022. Environmental Biology.** (BIOL 2206) Diversity of life; inter-relationship between organisms and their environment, and problems associated with these interrelationships. For non-science majors. No science prerequisites. Corequisite: BIOL 1021. Two lecture hours a week. Credit: Two hours.

BIOL 1111. Principles of Biology Laboratory. (BIOL 1106) Experiences with basic fundamentals of biology, including structure and function from cell to organism. Emphasis on plants as organisms. For science majors and minors. Corequisite: BIOL 1113. Three laboratory hours a week. Credit: One hour.

***BIOL 1113. Principles of Biology.** (BIOL 1306) Development of current concepts in cell structure and functions with introduction to organismal level. For science majors and minors. Corequisite: BIOL 1111. Three lecture hours a week. Credit: Three hours.

BIOL 1121. Principles of Biology Laboratory. (BIOL 1107) Experience with basic fundamentals of organismal biology of plants and animals. For science majors and minors. Corequisite: BIOL 1123. Three laboratory hours a week. Credit: 1 hour.

*Satisfies core curriculum for natural sciences.

***BIOL 1123. Principles of Biology.** (BIOL 1307) Organismal and population biology of plants and animals. For science majors and minors. Prerequisite: BIOL 1113. Corequisite: BIOL 1121. Three lecture hours a week. Credit: 3 hours.

BIOL 2233. Environmental Science, Economics and Law. Interdisciplinary introduction to the challenge of environmental protection. Examines materials on the scientific, economic, political and legal issues that affect this area, including the current state of the environment and the processes and institutions which shape environmental law and policy. Three lecture hours a week. Credit: Three hours.

BIOL 3014. Bioinformatics and Computational Biology. Investigation of the structure and function of genes and proteins through the application of computational data storage and retrieval, pattern recognition, and chemical modeling techniques; includes study of sequence analysis, structural prediction, genomics, phylogenetics, systems biology, and databases. Prerequisite: BIOL 1123, CHEM 1123. Three lecture hours and 2 lab hours per week. Credit: Four hours.

****BIOL 3163. The Evolving Woman.** Emphasizes the physiological, psychological, socio-cultural, and developmental evolution of the female from conception to death. Prerequisites: ZOOL 2011, ZOOL 2013, ZOOL 2021, ZOOL 2023. Three lecture hours a week. Credit: Three hours.

BIOL 4013. Human Genetics. Principles of genetics as applied to humans; historic and modern concepts evaluated with special attention on metabolic and chromosomal errors. Not for biology majors. Prerequisite: BIOL 1012 or 1113. Three lecture hours a week. Credit: Three hours.

BIOL 4221. Ecology Laboratory. Laboratory and field experiments designed to illustrate the basic concepts of ecology. Corequisite: BIOL 4223. Three laboratory hours a week. Credit: One hour.

BIOL 4223. Ecology. Introduction to relationships between organisms and their environment, limiting factors, food chains and pyramids, and population dynamics. Prerequisites: one year of coursework in Biology and BIOL 1123. Corequisite: BIOL 4221. Three lecture hours a week. Credit: Three hours.

BIOL 4293. Scientific Communication. Written and verbal communication skills involved in gathering, analyzing, and distributing scientific and technical information efficiently and accurately for specific scientific audiences. Pre-requisite: Eight credits in Biology courses. Three lecture hours per week. Credit: Three hours

BIOL 4344. Pathophysiology. Basic study of physiological systems in health and disease. Prerequisite: ZOOL 2013 and 2023. Four lecture hours a week. Credit: Four hours.

BIOL 4583. Science in the Elementary Classroom. Strategies for teaching elementary school science using science inquiry and active learning techniques. Topics will include notebooking, portfolio building, 5E lesson plan design, classroom management, cooperative learning, assessment, and technology applications. Intended for students seeking elementary teaching certification. Three lecture hours per week. Credit: Three hours.

*Satisfies core curriculum for natural sciences.

**Satisfies core curriculum for multicultural women's studies.

BIOL 4593. Science in the Secondary Classroom. Strategies for teaching high school and middle school science using science inquiry and active learning techniques. Notebooking, portfolio building, 5E lesson plan design, classroom management, cooperative learning, assessment, and technology applications. Intended for students seeking secondary certification in science. Three lecture hours per week. Credit: Three hours.

***BIOL 4681. Biology Seminar.** Student presentations based on library or laboratory research projects. May be repeated for additional credit. One lecture hour a week. Credit one hour.

BIOL 4811. Molecular and Cellular Biology. Gene Expression Laboratory. Laboratory studies in gene expression. Experience in basic laboratory techniques and their application in answering experimental questions. Corequisite: BIOL4813. Three laboratory hours a week. Credit: One hour.

BIOL 4813. Molecular and Cellular Biology: Gene Expression. First in a sequence of three courses. Integrated principles of cellular, molecular and genetic aspects of cell function. Mechanisms of gene expression including transcription, translation and their regulation. Prerequisite: BIOL 1123, CHEM 3223. Corequisite: BIOL 4811. Three lecture hours a week. Credit: Three hours.

BIOL 4821. Molecular and Cellular Biology: Genetics and Inheritance Laboratory. Laboratory studies in genetics and inheritance. Experience in basic laboratory techniques and their application in answering experimental questions. Prerequisite: BIOL 1123, CHEM 3223, BIOL 4811. Corequisite: BIOL 4823. Three laboratory hours a week. Credit: One hour.

BIOL 4823. Molecular and Cellular Biology: Genetics and Inheritance. The second semester of a three semester series. Integrated principles of cellular, molecular and genetic aspects of cell function. Mechanisms of gene expression including Mendelian genetics, cell cycle control and cell signaling. Prerequisite: BIOL 4813, CHEM 3223. Corequisite: BIOL 4821. Three lecture hours a week. Credit: Three hours.

BIOL 4833. Molecular and Cellular Biology: Advanced Topics. The third semester of a three semester series. Integrated principles of cellular, molecular and genetic aspects of cell function. Advanced treatment of various issues in cell and molecular biology including embryonic development, specialized cell function and carcinogenesis. Prerequisite: BIOL 4823, CHEM 3223. Three lecture hours a week. Credit: Three hours.

BIOL 4903. Selected Topics. Advanced studies in biology. Prerequisite: Permission of instructor. Three hours a week. Credit: Three hours. May be repeated.

BIOL 4911. Independent Study. Topics in advanced biology. Prerequisite: Permission of instructor. One hour a week. Credit: One hour. May be repeated.

BIOL 4913. Independent Study. Topics in advanced biology. Prerequisite: Permission of instructor. Three hours a week. Credit: Three hours. May be repeated.

*Satisfies core curriculum for oral communication.

BIOL 4951, 4953. Cooperative Education.

BIOL4983. Undergraduate Research. Original research at the undergraduate level. Formal, written report required. May be taken for honors credit and repeated for additional credit. Prerequisite: Permission of the department chair. No more than three semester credit hours will count towards the biology degree. Nine laboratory hours a week. Credit: Three hours.

Bacteriology Undergraduate Courses

BACT 1001. Microbiology Laboratory. (BIOL 2120) Practical experiences using the tools of microbiology: culturing, staining, fermentation, and colony studies. Corequisite: BACT 1003. Three hours a week. Credit: One hour.

***BACT 1003. Microbiology.** (BIOL 2320) Principles, historic concepts, sterility, chemotherapy and antibiotics, immunology, serology, and diseases caused by microorganisms. Corequisite: BACT 1001. Three lecture hours a week. Credit: Three hours.

BACT 3111. General Microbiology Laboratory. Principles of classification, anatomy, nutrition, reproduction, growth, metabolism and control of viruses, bacteria, fungi, and rickettsia. Prerequisites: Junior standing and six hours of biological sciences. Four laboratory hours a week. Corequisite: BACT 3113. Credit: one hour.

BACT 3113. General Microbiology. Principles, classification, anatomy, reproduction, growth, metabolism and control of viruses, bacteria, fungi, and rickettsia. Prerequisites: Junior standing and six hours of biological sciences. Prerequisites: BIOL 1113, BIOL 1123, and CHEM 1113. Corequisite: BACT 3111. Three lecture hours a week. Credit: Three hours.

BACT 3123. General Microbiology. Applications of principles; pathogens, immunity, serological, and diagnostic methods; air, food, water, and contact diseases of plants and animals; microbiology of water, sewage, air, milk, foods, soil, and industry; protozoal and fungal diseases. Prerequisites: Junior standing and BACT 3113. Three lecture hours a week. Credit: Three hours.

BACT 4111. Immunology Laboratory. Preparation and evaluation of immunizing agents; clearance by the reticuloendothelial system; antigen-antibody reactions as evaluated by agglutination, precipitation, complement-fixation and ELISA assays; immunochemistry techniques and immunopathology reactions. Corequisite: BACT 4113. Three laboratory hours a week. Credit: One hour.

BACT 4113. Immunology. Specific and non-specific immune responses, antigens, antibody structure, genetic bases of antibody structure, cell-mediated immunity, hypersensitivity reactions, and transplantation immunology. Prerequisite: BACT 3113 and CHEM 2213. Corequisite: BACT 4111. Three lecture hours a week. Credit: Three hours.

BACT 4413. Virology. Morphology, growth and classification of viruses; pathogenesis, epidemiology, and chemotherapy of major disease-producing viruses. Prerequisite: BIOL 1123, CHEM 3223, BACT 3113. Three lecture hours a week. Credit: Three hours.

*Satisfies core curriculum for natural sciences.

Botany Undergraduate Courses

BOT 2111. Plant Biology Laboratory. (BIOL 1111) Laboratory studies of plant morphogenesis, anatomy, physiology and classification. Prerequisite: BIOL 1111, 1113 or permission of instructor. Corequisite: BOT 2113. Three laboratory hours a week. Credit: One hour.

BOT 2113. Plant Biology. (BIOL 1311) Plant morphogenesis, anatomy, physiology, and classification. Prerequisite: BIOL 1113 or permission of instructor. Corequisite: BOT 2111. Three lecture hours a week. Credit: Three hours.

Zoology Undergraduate Courses

ZOOL 2011. Human Anatomy and Physiology Laboratory. (BIOL 2101) Observations of the structure and function of the human body. Corequisite: ZOOL 2013. Three laboratory hours a week. Credit: One hour.

***ZOOL 2013. Human Anatomy and Physiology.** (BIOL 2301) Principles of the structure and functions of the human body. Corequisite: ZOOL 2011. Three lecture hours a week. Credit: Three hours.

ZOOL 2021. Human Anatomy and Physiology Laboratory. (BIOL 2102) Continuation of observations of the structure and function of the human body. Corequisite: ZOOL 2023. Three laboratory hours a week. Credit: One hour.

***ZOOL 2023. Human Anatomy and Physiology.** (BIOL 2302) Principles of the structure and functions of the human body. Prerequisite: ZOOL 2013. Corequisite: ZOOL 2021. Three lecture hours a week. Credit: Three hours.

ZOOL 2031. Human Anatomy and Physiology Laboratory. Study of the structures and functions of the human body. Corequisite: ZOOL 2033. Three laboratory hours a week. Credit: One hour.

***ZOOL 2033. Human Anatomy and Physiology.** Studies of structure and function of the human body. Corequisite: ZOOL 2031. Three lecture hours a week. Credit: Three hours.

ZOOL 2041. Anatomy Laboratory. Gross anatomy of the human body, including muscular and nervous systems. Corequisite: ZOOL 2043. Three laboratory hours a week. Credit: One hour.

ZOOL 2043. Anatomy. Gross anatomy of the human body. Functional anatomy of the muscular and nervous system are included. Corequisite: ZOOL 2041. Three lecture hours a week. Credit: Three hours.

ZOOL 2051. Animal Physiology Laboratory. Study of all organ systems with the exception of the nervous system. Corequisite: ZOOL 2052. Three laboratory hours a week. Credit: One hour.

ZOOL 2052. Animal Physiology. Covers the physiology of all organ systems exemplified by human organs, with the exception of the nervous system. Corequisite: ZOOL 2051. Two lecture hours a week. Credit: Two hours.

ZOOL 3121. Neuroanatomy and Neurophysiology Laboratory. Laboratory exposure to the gross and microanatomy of the human brain and spinal cord. Discussion of case studies based on analyses of lesions associated with neurological

*Satisfies core curriculum for natural sciences.

dysfunction. Corequisite: ZOOL 3123. Three laboratory hours a week. Credit: One hour.

ZOOL 3123. Neuroanatomy and Neurophysiology. Basic anatomy and physiology of the human nervous system. Identification of location, structure, and function of major CNS systems and associated pathways. Prerequisite: ZOOL 2013 and ZOOL 2023. Corequisite: ZOOL 3121. Three lecture hours a week. Credit: Three hours.

ZOOL 3313. Biology of Aging. Physiological, anatomical, and immunological changes occurring with the aging process. Three lecture hours a week. Credit: Three hours.

ZOOL 4033. Animal Behavior. Basic examination of animal behavior principles, instinct, learning, communication and social organization. Presentations compare various animal groups, and students practice observational methods. Field trip. Prerequisite: BIOL 1123. Three lecture hours a week. Credit: Three hours.

ZOOL 4241. Mammalian Physiology Laboratory. Laboratory experiments in mammalian and human physiology. Corequisite: ZOOL 4243. Three laboratory hours a week. Credit: One hour.

ZOOL 4243. Mammalian Physiology. Basic processes and functions of organs and organ systems in the mammalian body; consideration of human and other physiological functions. Prerequisites: BIOL 1123, CHEM 1123. Corequisite: ZOOL 4241. Three lecture hours a week. Credit: Three hours.

Science Undergraduate Courses

A listing of science courses can be found at the end of the Department of Chemistry entries in this catalog/Biology faculty teach SCI 1123.

Graduate Courses

Refer to the Graduate Catalog or the department website for information about our graduate courses.

Department of Chemistry and Physics

Chair: Richard D. Sheardy, Professor

Location: ASSC 334

Telephone: (940) 898-2550

Telefax: (940) 898-2548

E-Mail: chemphy@twu.edu

www.twu.edu/chemistry-physics

Faculty: Professors J. Gill, J. Johnson, C. Riggs, R. Sheardy; Associate Professors M. Anderson, M. Britt, J. Espinosa, R. Jones; Assistant Professors M. Omary; Lecturers C. Maguire, L. Peebles.

The Department of Chemistry and Physics offers programs leading to B.S. in Biochemistry and in Chemistry and M.S. in Chemistry. Academic minors are offered in chemistry and in general science. Teacher certification to teach general science and physical science in secondary schools is also offered.

The objectives of the undergraduate chemistry program are to lead the student to (1) achieve an understanding of the behavior of material substances and of the energy changes accompanying this behavior and (2) to prepare students for advanced degrees, teaching, or professional careers in the sciences. The programs offered prepare the students for graduate studies in chemistry or biochemistry, admission to medical, dental, or pharmacy school, or a career as a professional chemist or teacher.

Graduates are employed as chemists, scientists, and managers in research, development, and production positions in a variety of settings and fields including: pharmaceuticals, cosmetics, food products, forensics, agricultural chemicals, medical research, and environmental law enforcement. Others go on to earn master's and doctoral degrees. Pre-med graduates have successfully earned medical/dental degrees from medical/dental schools in and outside of Texas.

To facilitate student success in chemistry courses, the Science Learning Resource Center (SLRC) gives diagnostic examinations in basic science and chemistry. Results from these examinations are used to advise students into the appropriate courses. ALL students who plan to take CHEM 1013, CHEM 1023, or CHEM 1113 are required to take diagnostic examinations and achieve minimum scores before enrolling in these courses.

Students who have taken advanced chemistry courses in high school may earn advanced placement credit for CHEM 1113. Advanced placement may be earned by a satisfactory score on the Advanced Placement Examination in Chemistry or on a departmentally-administered examination.

For more information about the Department, please visit the Department's home page www.twu.edu/chemistry-physics.

Course Load

Recommended course loads for both chemistry and biochemistry majors are 14-18 credit hours per semester, but students are ultimately responsible for developing individual course load plans with their academic advisors. When determining course loads, students should be prepared to spend a minimum of two hours outside of class for each lecture period and at least one-half hour outside of class for laboratories in order to be successful in these courses.

Special Requirements for Majors

Only courses in which a grade of C or better is earned may be counted toward a departmental major. Further, all students desiring a degree in chemistry are required to take CHEM 3411, CHEM 3413, CHEM 3421, CHEM 3423, and CHEM 4983. All students desiring a degree in biochemistry are required to take CHEM 3632, CHEM 3633, CHEM 3643, and CHEM 4983. CHEM 3603 cannot be used to satisfy the minor requirements. Only 3 credit hours of undergraduate research may be counted toward the required credit hours for a major in chemistry or biochemistry. Additional research hours may be counted as general electives.

Undergraduate Degrees

- B.S. in Chemistry (120 hours)
- B.S. in Chemistry with American Chemical Society certification (120 hours)
- B.S. in Biochemistry (120 hours)
- B.S. in Chemistry with Teacher Certification (Physical Science 8-12 and Science 8-12) (127 hours)

General Description for B.S. in Chemistry (120 hours)

The ACS degree plan, approved by the American Chemical Society, is the most comprehensive offered by the department. Students who complete this degree program will receive ACS professional certification. This program is recommended for those contemplating careers in the chemical industry or for those working toward advanced degrees in chemistry. A minimum of 120 credit hours is required.

FIRST YEAR

Semester 1	
CHEM 1001 Horizons in Chem. I	1
CHEM 1111 Chem. Principles I lab.....	1
CHEM 1113 Chem. Principles I lecture...	3
ENG 1013 Composition and Lit. I.....	3
MATH 2014 Introductory Calculus I	4
HIST 1013 History US 1492-1865	3
Total Hours	15

Semester 2	
CHEM 1101 Horizons in Chem. II.....	1
CHEM 1121 Principles II lab	1
CHEM 1123 Chem. Principles II lecture...	3
ENG 1023 Composition and Lit. II	3
MATH 2024 Introductory Calculus II	4
HIST 1023 History US 1865 to present	3
Total Hours	15

SECOND YEAR

Semester 3	
CHEM 2211 Organic Chem. I lab.....	1
CHEM 2213 Organic Chem. I lecture.....	3
PHYS 2151 General Physics Lab I.....	1
PHYS 2153 General Physics I	3
MATH 3104 Intermediate Calculus I.....	4
PCSCI 1413 Programming.....	3

Total Hours 15

Semester 4	
CHEM 3221 Organic Chem. II lab.....	1
CHEM 3223 Organic Chem. II lecture.....	3
PHYS 2161 General Physics Lab II.....	1
PHYS 2163 General Physics II	3
MATH 3123 Differential Equations or	3
MATH 3063 Linear Algebra	
Soc/Behav Science Core	3
Math 1013 Quantitative Literacy	3

Total Hours 17

THIRD YEAR

Semester 5	
CHEM 3334 Quantitative Analysis	4
CHEM 3632 Protein & Nucleic Acid	2
Chemistry Laboratory	
CHEM 3633 Protein & Nucleic Acid ...	3
Chemistry	
GOV 2013 U.S. National Government..	3
Elective	3

Total Hours 15

Semester 6	
CHEM 4314 Instrumental Analysis.....	4
GOV 2023 Texas Government.....	3
Women's Studies Core.....	3
SPCH 1013 Oral Communication	3
Elective	3

Total Hours 16

FOURTH YEAR

Semester 7	
CHEM 3411 Physical Chemistry Lab.....	1
CHEM 3413 Physical Chemistry.....	3
CHEM 4983 Undergraduate Research*	3
Humanities Core	3
Elective	3

Total Hours 13

Semester 8	
CHEM 3421 Physical Chemistry Lab II ...	1
CHEM 3423 Physical Chemistry II	3
CHEM 4514 Inorganic Chemistry.....	4
CHEM 4001 Research Presentations.....	1
Visual/Performing Arts Core	3
Elective	2

Total Hours 14

*ACS Certification requires a written research paper.

Bachelor of Science in Biochemistry (120 hours)**General Description for B.S. in Biochemistry**

This degree prepares students for graduate work in biochemistry, for careers in the chemical/pharmaceutical industries, and is ideal for admission to medically-related professional programs. This degree offers flexibility for students in the upper division courses so they can tailor their program to their individual professional goals. For those more interested in medically related programs, students would choose upper division biology courses, whereas those more interested in graduate work in biochemistry would choose upper division chemistry courses. A minimum of 120 credit hours is required.

FIRST YEAR

Semester 1

CHEM 1001 Horizons in Chemistry I	1
CHEM 1111 Chemical Principles I lab ..	1
CHEM 1113 Chemical Principles I	3
ENG 1013 Composition and Lit. I.....	3
MATH 2014 Introductory Calculus I	4
BIOL 1111 Principles of Biology Lab 1	1
BIOL 1113 Principles of Biology I.....	3

Total Hours 16

Semester 2

CHEM 1101 Horizons in Chemistry II.....	1
CHEM 1121 Chemical Principles II lab ...	1
CHEM 1123 Chemical Principles II	3
ENG 1023 Composition and Lit. II.....	3
MATH 2024 Introductory Calculus II	4
BIOL 1121 Principles of Biology Lab.....	1
BIOL 1123 Principles of Biology II.....	3

Total Hours 16

SECOND YEAR

Semester 3

CHEM 2211 Organic Chemistry I lab	1
CHEM 2213 Organic Chem. I lecture.....	3
PHYS 2151 General Physics Lab I	1
PHYS 2153 General Physics I	3
HIST 1013 History of US 1492-1865 ...	3
MATH 1013 Quantitative Literacy	3

Total Hours 14

Semester 4

CHEM 3221 Organic Chemistry II lab	1
CHEM 3223 Organic Chem. II lecture	3
PHYS 2161 General Physics Lab II	1
PHYS 2163 General Physics II	3
CSCI 1413 Programming	3
HIST 1023 History of US 1865 to present	3

Total Hours 14

THIRD YEAR

Semester 5

CHEM 3632 Protein & Nucleic Acid	2
Chemistry Laboratory	
CHEM 3633 Protein & Nucleic Acid ...	3
Chemistry	
CHEM 3334 Quantitative Analysis	4
Visual/Performing Arts Core.....	3
Humanities Core	3

Total Hours 15

Semester 6

CHEM 3643 Metabolic Biochemistry.....	3
CHEM 3313 Physical Chemistry for the	3
Life Sciences	
Chemistry/Biology Elective*	4
Women's Studies Core	3
SPCH 1013 Oral Communication	3

Total Hours 16

FOURTH YEAR

Semester 7

CHEM 4983 Undergraduate Research ...	3
Chemistry/Biology Elective*	3
GOV 2013 U.S. National Government..	3
Soc/Behav Science Core.....	3
Elective	3

Total Hours 15

Semester 8

CHEM 4001 Research Presentations.....	1
Chemistry/Biology Elective*	4
GOV 2023 Texas Government	3
Elective	3
Elective	3

Total Hours 14

*The chemistry or biology electives should be upper division courses offered by the Department of Chemistry and Physics or the Department of Biology. For Pre-Med majors, the electives should include BACT 3111/3113 (General Microbiology with lab) and ZOOL 4241/4243 (Mammalian Physiology with lab). For a minor in biology, an additional 3 credit course would be required.

Chemistry Minor

A minor in Chemistry requires a minimum of 19 credit hours, six of which must be advanced (3000 or 4000 level).

Chemistry Minor, Required Courses

- CHEM 1111. Principles of Chemistry Laboratory I
- CHEM 1113. Principles of Chemistry I
- CHEM 1121. Principles of Chemistry Laboratory II
- CHEM 1123. Principles of Chemistry II
- CHEM 2211. Organic Chemistry Laboratory I
- CHEM 2213. Organic Chemistry I
- CHEM 3221. Organic Chemistry Laboratory II
- CHEM 3223. Organic Chemistry II
- CHEM 3334. Quantitative Analysis or CHEM 3632. Protein and Nucleic Acid Laboratory AND CHEM 3633. Protein and Nucleic Acid Chemistry, or other approved upper division course.

General Science Minor

In cooperation with the Department of Biology, the Department of Chemistry and Physics offers a minor in General Science. See the minor in General Science in the Academic Information section of this catalog for course requirements.

Teacher Certification

There is a significant shortage of teachers to teach science in general, and chemistry and physical science in particular. The department offers two teacher certification options which lead to certification to teach grades 8-12 science. The Physical Science certificate prepares teachers to teach chemistry, physics, and integrated physics and chemistry. The Science Certificate prepares teachers to teach chemistry, physics, integrated physics and chemistry, biology and all other grades 8-12 science courses. For details and specific courses, please contact the department office to reach the teacher education advisor.

Chemistry Undergraduate Courses

CHEM 1001: Horizons in Chemistry and Biochemistry I: Career Possibilities. Explores career possibilities in biochemistry and chemistry. Weekly classes, enhanced by speakers and field experiences, will illustrate the many applications of these fields to contemporary issues and career paths. May not be used to satisfy any core science requirement. One hour a week. Credit: One hour.

CHEM 1011. Introductory Chemistry Laboratory. (CHEM 1105) Laboratory to be taken concurrently with CHEM 1013. Corequisite: CHEM 1013. Three laboratory hours a week. Credit: One hour.

***CHEM 1013. Introductory Chemistry.** (CHEM 1305) General principles and laws of chemistry; structure of matter and periodicity of the elements; special areas such as equilibrium, colloids, nuclear chemistry, and solutions. Prerequisite: Adequate score on placement examination or SCI 1003. Corequisite: CHEM 1011. Three lecture hours a week. Credit: Three Hours

*Satisfies core curriculum for natural sciences.

CHEM 1021. Introduction to Organic and Physiological Chemistry Laboratory. (CHEM 1107) Laboratory to be taken concurrently with CHEM 1023. Corequisite: CHEM 1023. Three laboratory hours a week. Credit: One hour.

***CHEM 1023. Introduction to Organic and Physiological Chemistry.** (CHEM 1307) Nomenclature and reactions of aliphatic and aromatic compounds; introduction to the chemistry of carbohydrates, fats, proteins, and nucleic acids and their metabolism. Prerequisite: One year of high school chemistry and a passing score on placement examination or CHEM 1013. Corequisite: CHEM 1021. Three lecture hours a week. Credit: Three hours.

CHEM 1101: Horizons in Chemistry and Biochemistry II: Current Applications. Explores how chemistry and biochemistry impact contemporary life through new developments such as gene therapy, designer steroids, new drug therapies, and dietary supplements. Examines current events to further develop interests in and perspectives on chemistry and biochemistry. May not be used to satisfy any core science requirement. One lecture hour a week. Credit: One hour.

CHEM 1111. Chemical Principles Laboratory I. (CHEM 1111) Laboratory to be taken concurrently with Chemical Principles I. Corequisite: CHEM 1113. Three laboratory hours a week. Credit: One hour.

***CHEM 1113. Chemical Principles I.** (CHEM 1311) Classification of matter, elements and compounds; stoichiometry; acids and bases; gases; thermochemistry; periodic law; atomic and molecular structure. Prerequisite: One year of high school chemistry and a passing score on placement examination or CHEM 1013. Corequisite: CHEM 1111. Three lecture hours a week. Credit: Three hours.

CHEM 1121. Chemical Principles Laboratory II. (CHEM 1112) Laboratory to be taken concurrently with Chemical Principles II. Corequisite: CHEM 1123. Prerequisite: CHEM 1111. Three laboratory hours a week. Credit: One hour.

***CHEM 1123. Chemical Principles II.** (CHEM 1312) Solids, liquids, and solutions; oxidation-reduction; reaction rates; equilibrium; thermodynamics; electrochemistry; chemistry of the common elements; nuclear chemistry. Prerequisite: CHEM 1113. Corequisite: CHEM 1121. Three lecture hours a week. Credit: Three hours.

CHEM 2211. Organic Chemistry Laboratory I. (CHEM 2123) Introduction to the techniques of separation, isolation and purification of covalent compounds. Prerequisites: CHEM 1121, 1123. Corequisite: CHEM 2213. Three laboratory hours a week. Credit: One hour.

CHEM 2213. Organic Chemistry I. (CHEM 2323) Theories of covalent molecular structure; hydrocarbons and derived halides; aromaticity; mechanisms of free radical, nucleophilic, and electrophilic substitutions; and of additions and eliminations. Prerequisite: CHEM 1123. Corequisite: CHEM 2211. Three lecture hours a week. Credit: Three hours.

CHEM 3221. Organic Chemistry Laboratory II. (CHEM 2125) Introduction to the practice of organic synthesis and to classical methods of compound identification. Prerequisites: CHEM 2211 and 2213. Corequisite: CHEM 3223. Three laboratory hours a week. Credit: One hour.

*Satisfies core curriculum for natural sciences.

CHEM 3223. Organic Chemistry II. (CHEM 2325) Continuation of CHEM 2213. Organic compounds of oxygen, nitrogen, and sulfur; alcohols and ethers; organic acids and bases; carbonyl compounds; compounds of biological origin. Prerequisite: CHEM 2213. Corequisite: CHEM 3221. Three lecture hours a week. Credit: Three hours.

CHEM 3243. Organic Structure Determination. Introduction to modern spectroscopic methods of identification of organic compounds. Prerequisites: CHEM 3221 and 3223. One lecture and six laboratory hours a week. Credit: Three hours.

CHEM 3313: Physical Chemistry for the Life Sciences. Equilibrium thermodynamics, kinetics, and spectroscopy with an emphasis on applications to biochemical systems. Three lecture hours a week. Prerequisite: CHEM 1123. Credit: Three hours.

CHEM 3334. Quantitative Analysis. Theoretical principles and laboratory techniques involved in quantitative determinations. Laboratory includes gravimetric, titrimetric, potentiometric, spectrophotometric, and chromatographic methods of analysis. Prerequisite: CHEM 1123. Two lecture and six laboratory hours a week. Credit: Four hours.

CHEM 3411. Physical Chemistry Laboratory I. Introduction to experimental measurement of physical properties and change, record keeping, data analysis and report writing. Corequisite: CHEM 3413. Half hour lecture, two and half hours laboratory a week. Credit: one hour.

CHEM 3413. Physical Chemistry I. Introductory theories of physical chemistry covering states of matter, equilibrium thermodynamics and kinetic processes. Prerequisites: MATH 2023, PHYS 2163, CHEM 3223, and CHEM 3334. Three lecture hours a week. Credit: Three hours.

CHEM 3421. Physical Chemistry Laboratory II. Continuation of CHEM 3411. Emphasis on spectroscopic measurement. Prerequisite: CHEM 3411. Corequisite: CHEM 3423. Half hour lecture, two and half hours laboratory a week. Credit: One hour.

CHEM 3423. Physical Chemistry II. Continuation of CHEM 3413. Introductory quantum theory, atomic and molecular structure, spectroscopy, and statistical thermodynamics. Prerequisite: CHEM 3413. Three lecture hours a week. Credit: Three hours.

CHEM 3603. Biological Chemistry. Structures and properties of biological compounds and their chemical reactions in living systems. Production of energy from foodstuffs and the synthesis of biological compounds for the continuation of life processes. Prerequisite: CHEM 1023. Three lecture hours a week. Credit: Three hours.

CHEM 3632: Protein and Nucleic Acid Chemistry Laboratory. Analysis of amino acids and proteins. Purification and characterization of proteins, including enzyme assays and kinetics. Lab skills include record keeping, computer utilization, safety, chromatography, electrophoresis, and spectroscopy. Corequisite: CHEM 3633. Five laboratory hours a week. Credit: Two hours.

CHEM 3633: Protein and Nucleic Acid Chemistry. The structure and chemistry of proteins and nucleic acids, and their biologically relevant interactions. Corequisite: CHEM 3632. Three lecture hours a week. Credit: Three hours.

CHEM 3643: Metabolic Biochemistry. Biochemistry of metabolic pathways (mammalian) using normal and disease states as examples. Metabolism of carbohydrates, amino acids, lipids, and nucleic acids, energy metabolism, and their integration. Prerequisite: CHEM 3633. Three lecture hours a week. Credit: Three hours.

CHEM 4001: Research Presentations in Chemistry and Biochemistry. To prepare chemistry and biochemistry students for presentations of research results at scientific meetings. Prerequisite: Senior standing or permission of the Chair. One seminar hour a week. Credit: One hour.

CHEM 4314. Instrumental Analysis. A study of fundamental principles underlying chemical methods and modern analytical instruments and an introduction to various modern analytical instrumentation: includes FT-NMR, FTIR, chromatography, UV-Vis spectroscopy, atomic spectroscopy, electrochemistry, and mass spectrometry. Prerequisites: CHEM 3334 and CHEM 3413. Three lecture and three laboratory hours a week. Credit: Four hours.

CHEM 4514. Inorganic Chemistry. A survey course, including the periodic relationships of the elements, chemical bonding, acid-base theory, nonaqueous solvent chemistry, coordination compounds, and other selected topics. Prerequisite: CHEM 3413. Corequisite: CHEM 3423. Three lecture and three laboratory hours a week. Credit: Four hours.

CHEM 4911. Independent Study. Independent student readings or experimentation in chemistry. Prerequisites: Junior standing and permission of the department chair. One conference or three laboratory hours a week. Credit: One hour.

CHEM 4912. Independent Study. Independent student readings or experimentation in chemistry. Prerequisites: Junior standing and permission of the department chair. Two conference or six laboratory hours a week. Credit: Two hours.

CHEM 4913. Independent Study. Independent student readings or experimentation in chemistry. Prerequisites: Junior standing and permission of the department chair. Three conference or nine laboratory hours a week. Credit: Three hours.

CHEM 4953. Cooperative Education.

CHEM 4956. Cooperative Education.

CHEM 4981. Undergraduate Research. Original research at the undergraduate level. Formal, written report required. May be taken for honors credit and repeated for additional credit. Prerequisite: Permission of the department chair. Credit: One hour.

CHEM 4983. Undergraduate Research. Original research at the undergraduate level. Formal, written report required. May be taken for honors credit and repeated for additional credit. Prerequisite: Permission of the department chair. Credit: Three hours.

CHEM 4991. Senior Thesis. The writing of a thesis based on original research at the undergraduate level. May be taken for honors credit only. Prerequisite: CHEM 4981 or 4983 and permission of the department chair. Credit: One hour.

Graduate Courses

Please refer to the Graduate Catalog or the department website for information about our graduate courses.

Science Undergraduate Courses

SCI 1003. Fundamentals of Science. A course designed to teach basic mathematical and reasoning skills common to biology, chemistry, and physics. May not be used to satisfy any science requirement. Lecture and recitation. Three hours a week. Credit: Three hours.

***SCI 1114: Sustainable Physical Science.** Theory and practice of sustainability in the context of the physical sciences. Cycle of matter and energy in the environment, formation and consumption of resources, laws of motion and thermodynamics, property of waves, and nature of electric charge. Three lecture and two laboratory hours a week. Credit: Four hours.

***SCI 1123. General Life Science.** Life processes as they are based on physical chemical principles. Manifestation of different life forms in various organisms in adaptation to diverse environments. Two lecture and three laboratory hours a week. Credit: Three hours.

SCI 1134. Introduction to Forensic Science. Recognition, collection, and preservation of physical evidence; analysis by modern physical, chemical and biochemical techniques; presentation of scientific results in court. Prerequisite: SCI 1003 or permission of instructor. Three lecture and three laboratory hours a week. Credit: Four hours.

****SCI 2103. Introduction to Environmental Chemistry: Global Perspectives.** Chemical principles in the context of significant environmental issues. Topics include energy, biogeochemical cycles; issues such as the ozone layer, global warming and acid rain, and assessment of environmental risk. Two lecture hours and three lab hours a week. Credit: Three hours.

***SCI 2113. Earth Science I.** (GEOL 1403) Nature of science and scientific inquiry as revealed through an integrated investigation of physical and chemical development of the Earth through space and time. An examination of how the lithosphere, hydrosphere, and atmosphere are connected through the model of Plate Tectonics, and decoding the science based issues of the 21st century. Meets laboratory science requirements for B.A. and B.S. degrees. Two lecture and two laboratory hours a week. Credit: Three hours.

SCI 2123. Earth Science II. (GEOL 1404) Continuation of SCI 2113. An examination of the biological history of the Earth as revealed by paleontological evidence, the present state of the Earth, and Earth's future as predicted by geological, biological, and astronomical models. Prerequisite: SCI 2113. Two lecture and

*Satisfies core curriculum for natural sciences.

** Satisfies core curriculum for natural sciences and global perspectives graduation requirement.

two laboratory hours a week. Credit: Three hours.

SCI 3003. Science, Mathematics, and Technology. Synthesis of science, mathematics, and technology for future classroom teachers. The earth in terms of population, resources, and environmental issues, and women's role in the sciences and development of female-friendly science, mathematics, and technology. Prerequisites: Junior standing and one course in college level science and mathematics. Three lecture hours a week. Credit: Three hours.

SCI 3033. Who Owns the Rain: Water in a Changing Environment. Sustainability issues of water from an American Southwestern to global perspective; combines the science, sociology, and economics of water quality and availability of transboundary water systems in a changing environment. Prerequisite: SCI 3013 or permission of the instructor. Two lecture and two laboratory hours a week. Credit: Three hours.

SCI 3013. Community Conversation in Sustainability. Sustainability issues from scientific, sociological and business perspectives. Topics include the impacts of energy production, food production, industry and our modern life style on our local and global community with an emphasis on systems and possible solutions. Pre-requisites: SCI 1114, SCI 2103 or SCI 2113. Three lectures hours a week. Credit: Three hours.

****SCI 3133. Climate Change: A Human Perspective.** Study of climate change with a synthesis of meteorology, geology, oceanography, astronomy, and anthropology. Examines past, present, and future climate change in context of natural and anthropogenic forcing with special focus on climate and climate's impact on man. Two lecture and two laboratory hours a week. Credit: Three hours.

****SCI 3153. History of Modern Science.** An exploration of the development of the sciences in their social and political context; science from the Newtonian revolution to present. Two lecture and two laboratory hours a week. Credit: Three hours.

SCI 4911, 4913. Independent Study in Science. Independent Student readings in modern science. Three conference hours a week. Credit: One or three hours.

SCI 4923. Building Sustainable Communities. Capstone course for certificate in Science, Society and Sustainability. Integration of concepts from science, sociology and economics to synthesize sustainable solutions to community issues. Requires completion of a civic engagement project with a public presentation of sustainable solutions for a selected complex civic issue. Prerequisite: completion of 12 hours towards Science, Society and Sustainability certificate. Three lectures hours a week. Credit: Three hours.

Graduate Courses

Please refer to the Graduate Catalog or the department website for informatoin about our graduate courses.

**** Satisfies core curriculum for natural sciences and global perspectives graduation requirement.**

Physics Undergraduate Courses

PHYS 1033. Introduction to Astronomy. (PHYS 1311) Historical survey of early astronomy. Light and the telescope. Study of the sun and planets, supernova, neutron stars, black holes, galaxies, creation of Universe, extra-terrestrial intelligence. Laboratory exercises. Two lecture and two laboratory hours a week. Credit: Three hours.

PHYS 1131. Principles of Physics Laboratory I. (PHYS 1101) Experimental laboratory work on topics from PHYS 1133 correlated with its lecture material. Corequisite: PHYS 1133. Three laboratory hours a week. Credit: One hour.

***PHYS 1133. Principles of Physics I.** (PHYS 1301) Introductory physics for non-physics majors; mechanics, heat, and sound. Three lecture hours a week. Credit: Three hours. May not be substituted for PHYS 2153.

PHYS 1141. Principles of Physics Laboratory II. (PHYS 1102) Experimental laboratory work on topics from PHYS 1143 correlated with its lecture material. Corequisite: PHYS 1143. Three laboratory hours a week. Credit: One hour.

***PHYS 1143. Principles of Physics II.** (PHYS 1302) Introductory physics for non-physics majors; electricity and magnetism, light and atomic and nuclear physics. Prerequisite: PHYS 1133. Three lecture hours a week. Credit: Three hours. May not be substituted for PHYS 2163.

PHYS 2151. General Physics Laboratory I. (PHYS 2125) Experimental laboratory work on topics from PHYS 2153 correlated with its lecture materials. Corequisite: PHYS 2153. Three laboratory hours a week. Credit: One hour.

***PHYS 2153. General Physics I.** (PHYS 2325) Introductory physics for science majors; mechanics, heat and sound. Three lecture hours a week. Prerequisite: Credit for or concurrent enrollment in MATH 2014. Credit: Three hours.

PHYS 2161. General Physics Laboratory II. (PHYS 2126) Experimental laboratory work on topics from PHYS 2163 correlated with its lecture material. Corequisite: PHYS 2163. Three laboratory hours a week. Credit: One hour.

***PHYS 2163. General Physics II.** (PHYS 2326) A continuation of PHYS 2153. Introductory physics for science majors; electricity and magnetism, light and atomic and nuclear physics. Prerequisite: PHYS 2153. Three lecture hours a week. Credit: Three hours.

PHYS 4911. Independent Study. Individual study in advanced physics. Credit: One hour.

PHYS 4913. Independent Study. Individual study in advanced physics. Credit: Three hours.

*Satisfies core curriculum for natural sciences.

Department of English, Speech, and Foreign Languages

Chair: Genevieve West, Professor

Location: CFO 906

Telephone: (940) 898-2324

Telefax: (940) 898-2297

E-Mail:

www.twu.edu/english-speech-foreign-languages

Faculty: Professors P. Bridges, H. Burns, B. Krajewski, S. Souris, A. Staton, A. Stuart, L. Thompson, G. West; Associate Professors J. Bean, V. Casper, R. Greer, A. Litton, N. Nik; Assistant Professor R. Rodriguez.

The English, Speech, and Foreign Languages Department offers a B.A. in English and minors in English and Spanish in addition to providing language, literature, and composition courses in the core curriculum. The Bachelor of Arts in English provides students with a strong foundation in language skills and appreciation of literature through studies in composition, language, and literature. The B.A. in English with 8-12 Teacher Certification is also available. Students may gain experience in teaching through internships in the Write Site.

With a B.A. in English, students can prepare themselves for careers in writing and editing, for teaching, and for a variety of careers which value communication and critical thinking skills. In addition, this degree provides a foundation for graduate education. The department also offers graduate studies leading to the Master of Arts in English and the Ph.D. in Rhetoric.

Admission Requirements

Please see Admissions section of this catalog.

Undergraduate Degrees

B.A. in English (120 hours)

B.A. in English/Language Arts for 8-12 Teacher Certification in Texas (124 hours)

The Bachelor of Arts Degree in English

Please check with the Department for a current description of the B.A. in English. To earn the Bachelor of Arts degree with a major in English, a student will complete 6 semester hours of English (1013, 1023), and amass a minimum of 36 semester hours in advanced English, including credit in the following required courses:

- 3 hours: American Literature: 3 advanced hours
- 3 hours: Language/Linguistics: 3303, 3363, or 3373
- 3 hours: Advanced Grammar and Composition: 3203
- 3 hours: Shakespeare: 3333
- 3 hours: Novel: 3313, 3323, or 3353
- 6 hours: English Literature: 3013, 3023
- 3 hours: 4243 or 4903. (English Literary period)
- 12 hours: Advanced courses (to be chosen from literature, language, linguistics, cooperative education, professional writing courses)

Students must maintain a 2.0 average in the major, earn a C or better in ENG 3203, and have no more than one D counting towards graduation.

The major who does not work toward certification will compile at least 18 semester hours of credit in a minor field. Six of the 18 hours must be advanced. At least 3 hours must be completed at TWU.

+All English majors are required to complete 12 hours of foreign language. Students may elect to take 12 hours in the same or 6 hours in one foreign language and 6 hours in a second foreign language, or 9 hours in one foreign language and 3 in American Sign Language.

Bachelor of Arts in English (120 hours)

FIRST YEAR

First Semester	Second Semester
ENG 1013 Composition I..... 3	ENG 1023 Composition II..... 3
MATH 1013 Quantitative Literacy 3	HIST 1023 U.S. Hist. 1865-Present (core).. 3
Natural Science (core)..... 3	MATH (core)..... 3
Humanities (core)..... 3	GOV 2013 (core)..... 3
HIST 1013 U.S. History 1492-1865(core) 3	Natural Science (core)..... 3
Total Hours 15	Total Hours 15

SECOND YEAR

First Semester	Second Semester
ENG 3013 3	ENG 3203..... 3
ENG 3023 3	ENG 3303, 3363, or 3373..... 3
Foreign Language 3	Foreign Language 3
GOV 2023 Texas Government (core) 3	Social/Behavioral Science (core) 3
Multicultural Women's Studies (core) 3	Performing Arts (core)..... 3
Total Hours 15	Total Hours 15

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THIRD YEAR

First Semester		Second Semester	
ENG 3313, 3323, or 3353.....	3	American Lit.....	3
ENG 3333	3	Foreign Language.....	3
ENG 4243 or 4903 (Eng. Lit.period).....	3	Minor	3
Foreign Language	3	SPCH 1013 (Oral Competency).....	3
Minor.....	3	Elective	3
Total Hours	15	Total Hours	15

FOURTH YEAR

First Semester		Second Semester	
ENG 3XXX or 4XXX (advanced elective). 3		ENG 3XXX or 4XXX (advanced elective)....	3
ENG 3XXX or 4XXX (advanced elective). 3		ENG 3XXX or 4XXX (advanced elective)....	3
Minor.....	3	Minor	3
Minor.....	3	Minor	3
Designated CSCI course	3	Elective	3
(Computer literacy)			
Total Hours	15	Total Hours	15

All students must complete six credit hours in approved Global Perspectives courses, either in the core or major courses (graduation requirement).

Certification Programs Offered

The Department of English, Speech, and Foreign Languages offers teacher certification in 8-12 English/Language Arts. (120 hours)

*The student seeking certification in 8-12 English/Language Arts, must also complete the education minor. Please refer to the College of Professional Education section of this catalog. Students seeking certification must follow specific admission standards for COPE.

8-12 English/Language Arts - 42 hours

All students seeking certification at TWU from the Department of English, Speech, and Foreign Languages must complete no less than nine (9) hours of upper division courses in English with this department.

3 hours: English 1013

3 hours: English 1023

3 hours: Sophomore Literature

3 hours: Speech 1013

3 hours: English 3013: British Literature I

3 hours: English 3023: British Literature II

3 hours: English 3203: Advanced Grammar and Composition

Requirement – B or better

3 hours: English 3243. Literary Analysis and Criticism

Requirement – B or better

3 hours: Advanced British Literature

3 hours: English 3283: American Literature I

- 3 hours: English 3293: American Literature II
- 3 hours: English 4333: World Literature
- 3 hours: Linguistics. Any of the following: ENG 3303, ENG 3363, ENG 3373
- 9 hours: Electives. Any upper division English courses.
- 3 hours: Reading RDG 3013

No grade lower than a C will count toward an English major seeking 8-12 teacher certification in English/Language Arts.

Minors Offered

English
Spanish

No grade lower than C will count in English classes toward an English minor or Spanish minor.

For a minor in English, the requirement is 12 semester hours in the department beyond first-year composition with at least 6 hours being advanced. At least 3 hours of the 6 advanced hours must be completed at TWU.

An undergraduate student majoring in English or another field who expects to pursue graduate study in English is encouraged to confer with the chair of the department during the junior and senior years in order to coordinate undergraduate and graduate programs.

For information concerning the Master of Arts degree in English and the Doctor of Philosophy degree in Rhetoric, see the Graduate Catalog.

English Undergraduate Courses

ENG 1003. Introduction to Writing. Required of all freshmen who do not meet entrance requirements for ENG 1013. Includes intensive instruction and exercise in syntax, punctuation, spelling, and vocabulary development. English 1003 does not satisfy any English core requirement, and hours earned will not count toward graduation requirements. Three lecture hours a week. Credit: Three hours.

***ENG 1013. Composition I.** (ENGL 1301) Theory and practice of written and oral exposition and research in traditional and electronic environments; rhetorical principles and organization in practice. Prerequisite: ENG 1003, passing score on or exemption from placement exam. Three lecture hours a week. Credit: Three hours. Core composition requirement.

***ENG 1023. Composition II.** (ENGL 1302) Theory and practice of critical exposition and rhetorical analysis in traditional and electronic environments; composing persuasive and investigative texts based on research. Prerequisite: ENG 1013 or its equivalent. Three lecture hours a week. Credit: Three hours.

*Satisfies core curriculum requirement for communication.

***ENG 2013. English Literary Masterpieces.** (ENGL 2322) Major prose and poetry studied in chronological sequence. Emphasis on the artistry and the relation of technique to content of the works studied. Prerequisite: ENG 1023 or its equivalent. Three lecture hours a week. Credit: Three hours.

***ENG 2033. American Literary Masterpieces.** (ENGL 2326) Major works of American literature studied in chronological sequence. Attention to both poetry and prose. Prerequisite: ENG 1023 or its equivalent. Three lecture hours a week. Credit: Three hours.

***ENG 2043. World Literary Masterpieces.** (ENGL 2332) Survey of the masterworks of world literature, beginning with the earliest Greek works. Emphasis on the acquisition of an overview of world literature as well as knowledge about the genres, literary epochs, and literary history which has informed British and American literature. Prerequisite: ENG 1023 or its equivalent. Three lecture hours a week. Credit: Three hours.

ENG 2053. World Literary Masterpieces, 1600 to Present. (ENGL 2333) Survey of the masterworks of world literature, beginning with the seventeenth century and reaching to recent times. Emphasis on the acquisition of an overview of world literature as well as knowledge about the genres, literary epochs, and literary history which has informed British and American literature. Prerequisite: ENG 1023 or its equivalent. Three lecture hours a week. Credit: Three hours.

ENG 2063. Literature and Medicine. Literary works that illustrate the cultural, ethical, social, political, and/or psychological dimensions of medical practice, health, and illness. Prerequisite: ENG 1023 or its equivalent. Three lecture hours a week. Credit: Three hours.

***ENG 2123. Poetry.** An introduction to the art of lyric poetry. Intensive analysis of individual poems with special attention to terms and techniques. Poetry selections are from different literary periods in English and American literature. Prerequisite: ENG 1023 or its equivalent. Three lecture hours a week. Credit: Three hours.

****ENG 2133. Drama.** An introduction to the art of drama with emphasis on analysis of types of drama from classical Greek to modern times. Prerequisite: ENG 1023 or its equivalent. Three lecture hours a week. Credit: Three hours.

***ENG 2143. Fiction.** An introduction to the art of fiction, including the study of short stories, novellas, and novels, with an emphasis on critical reading. Prerequisite: ENG 1023 or its equivalent. Three lecture hours a week. Credit: Three hours.

ENG 3013. Representative Works of British Literature to 1760. Examines significant works in depth with study of authors and genres in relation to the aesthetic, historical, and cultural contexts. Requires research with primary and secondary sources. Three lecture hours a week. Credit: Three hours.

ENG 3023. Representative Works of British Literature from 1760 to Present. Examines significant works in depth with study of authors and genres in

*Satisfies core curriculum humanities requirement.

**Satisfies global perspectives requirement for graduation and core humanities requirement.

relation to the aesthetic, historical and cultural contexts. Requires research with primary and secondary sources. Three lecture hours a week. Credit: Three hours.

ENG 3103. Writing Center Internship. Theory and practice of writing pedagogy in a tutorial setting. Developing and using techniques for writing instruction, composition theory. Writing, revising, tutoring of peers. Prerequisite: ENG 1023 and one sophomore or advanced English course. Three lecture hours a week. Credit: Three hours.

ENG 3123. Creative Writing. Fundamentals and techniques of creative writing, with intensive practice in reading and writing fiction, poetry, or drama. Prerequisite: 12 hours of English. May be repeated for credit when the topic varies for up to 9 hours. Three seminar hours a week. Credit: Three hours.

***ENG 3143. Modern African-American Drama.** Concentration on a close reading of classic plays by the most important and celebrated African-American playwrights. Focus on the plays of August Wilson. Prerequisites: Six hours of composition. Three lecture hours a week. Credit: Three hours.

***ENG 3153. American Ethnic Literature.** Major themes, subjects, forms, and styles employed by American ethnic writers. Focus may be on particular themes, genres, or ethnic groups. Prerequisite: Six hours of English. Three lecture hours a week. Credit: Three hours.

ENG 3203. Advanced Grammar and Composition. Concentration on the basic terminology and procedures of English grammar, rhetoric, and composition, with intensive practice. Prerequisites: Nine hours of English. Three lecture hours a week. Credit: Three hours.

ENG. 3243. Literary Analysis and Criticism. Analysis of fiction, poetry, and drama, using representative historical periods and contemporary texts. Focus on literary history, schools of criticism, literary terminology, genres, principles of analysis with intensive writing practice. Prerequisite: Nine hours of English. Three lecture hours a week. Credit: Three hours.

ENG 3273. Film and Literature. A critical study of the film in its relations to drama, the novel, the short story, poetry, and myth. Prerequisite: Nine hours of English. Three lecture hours a week. Credit: Three hours.

ENG 3283. Survey of American Literature: Colonial Through Romantic. Major prose and poetry written in the United States during the Colonial Period through the Romantic Period studied chronologically. Artistry and technique of the works studied along with attention to the periods in which the works were written and read. Prerequisite: Nine hours of English. Three lecture hours a week. Credit: Three hours.

ENG 3293. Survey of American Literature: Realism to the Present. Major prose and poetry written in the United States during the Realistic Period up to and including the present studied chronologically. Artistry and technique of the works studied along with some attention to the periods in which the works were written and read. Prerequisite: Nine hours of English. Three lecture hours a week. Credit: Three hours.

*Satisfies core curriculum humanities requirement.

ENG 3303. The English Language: Development, Nature, and Structure. Modern English with historical backgrounds: phonology, morphology, syntax, vocabulary, and usage. Prerequisites: Nine hours of English. Three lecture hours a week. Credit: Three hours.

ENG 3313. The English Novel. Great novels of the eighteenth and nineteenth centuries, selected as illustrating types and trends in development, analyzed for fictional patterns and as representative of the greatest novelists from Defoe through Hardy. Prerequisites: Nine hours of English. Three lecture hours a week. Credit: Three hours.

ENG 3323. American Fiction. American fiction from the eighteenth century to the present, with stress on major novels and short stories. Prerequisites: Nine hours of English. Three lecture hours a week. Credit: Three hours.

ENG 3333. Major Plays of Shakespeare. A close reading of Shakespeare's major plays, with an examination of Shakespeare's background in the thought of the English Renaissance. Prerequisites: Nine hours of English. Three lecture hours a week. Credit: Three hours.

ENG 3353. The Twentieth-Century English Novel. Analysis of works by the major novelists from 1900 to the present, including such figures as Conrad, Joyce, Waugh, and Greene. Prerequisite: Nine hours of English. Three lecture hours a week. Credit: Three hours.

ENG 3363. Introduction to Linguistics. A survey of the techniques and practice of recent linguistic theory, including the structural and transformational concepts of English syntax and semantics. Prerequisite: Nine hours of English. Three lecture hours a week. Credit: Three hours.

ENG 3373. Contrastive Linguistics. Contrastive analysis of the linguistic differences (phonological, lexical, and syntactical) between Standard American English and Spanish and between Standard English and minority dialects. Prerequisites: Nine hours of English. Three lecture hours a week. Credit: Three hours.

ENG 3433. Professional Writing. (ENGL 2314) Strategies and practice in selected rhetorical forms; reading and rhetorical analysis of selected works. Prerequisite: Nine hours of English or permission of instructor. Will not substitute for a sophomore literature course. Three lecture hours a week. Credit: Three hours.

ENG 4243. Poetry of the Romantic Period. Philosophic and aesthetic approaches to the study of the work of Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats. Prerequisites: Nine hours of English. Three lecture hours a week. Credit: Three hours.

ENG 4283. Twentieth-Century American Drama. Concentration on a close reading of representative plays of O'Neill, Miller, and Williams. Attention given to other important dramatists, various types and styles of drama, and historical relevance of plays studied. Prerequisites: Nine hours of English. Three lecture hours a week. Credit: Three hours.

****ENG 4333. Introduction to the Study of World Literature.** Study of representative masterpieces of ancient, classical, medieval, and modern literature in translation. Stress on intercultural relationships as well as individualizing char-

**Satisfies global perspectives requirement for graduation.

acteristics of works analyzed. Prerequisites: Nine hours of English. Three lecture hours a week. Credit: Three hours.

***ENG 4393. American Women and Literature.** Emphasis on the changing images of major female characters and on the contributions of major female writers from the colonial period to the present. Focus may be on fiction or on poetry and drama. Prerequisites: Six hours of English, including ENG 1023. May be repeated for credit when the topic varies. Three lecture hours a week. Credit: Three hours.

ENG 4903. Selected Topics. Varied topics of literature: a period, specific authors, specific themes. Prerequisites: Nine hours of English. May be repeated for credit when the topic varies. Three lecture hours a week. Credit: Three hours.

ENG 4911. Independent Study. Detailed study of a specialized topic in English. May be repeated for credit when the topic of investigation varies. Prerequisite: Nine hours of English or permission of instructor. Credit: One hour.

ENG 4913. Independent Study. Directed study of a specific focus in literature. Readings, conferences, special projects. May be repeated for credit when the topic varies. Prerequisites: Nine hours of English or permission of instructor. Credit: Three hours.

ENG 4953. Cooperative Education. (ENGL 2389)

Graduate Courses

Please refer to the Graduate Catalog or the department website for information about our graduate courses.

SPEECH

Speech Undergraduate Courses

****SPCH 1013. Oral Communication.** (SPCH 1311) Elements and processes of interpersonal communication in all modes. Small group activities, oral interpretation of literature, and extemporaneous speaking. Evaluative listening and speaking experience. Three lecture hours a week. Credit: Three hours.

SPCH 3203. Multicultural Communication. Theory and practice of multicultural communication. Students explore American co-cultures - including, but not limited to Native-Americans, African-Americans, Hispanic-Americans, Asian-Americans - within the contexts of political rhetoric, business communication, and education. Three lecture hours a week. Credit: Three hours.

SPCH 4913. Independent Study. Detailed study of specialized topics in speech. Prerequisite: Junior standing. Credit: Three hours. May be repeated for credit when the topic of investigation varies.

*Satisfies core curriculum requirement for humanities.

**Satisfies core oral communication competency requirement.

FOREIGN LANGUAGES

Foreign Language Undergraduate Courses

***FL 2013. Mythology.** A survey of world mythologies and their global influence on the fine arts and literature. Prerequisite: ENG 1023 or equivalent. Three lecture hours a week. Credit: Three hours.

FL 4903. Selected Topics. Selected topics in foreign languages. Prerequisite: Nine hours of English or permission of instructor. Three lecture hours a week. May be repeated for credit when topic varies. Credit: Three hours.

FL 4913. Independent Study. For students in whose program there is a need for study in an area not available to them otherwise because of timing or schedule difficulties. Three lecture hours a week. Credit: Three hours.

French Undergraduate Courses

FR 1013. Elementary French. (FREN 1311) For students with no previous instruction in French. Three lecture hours a week. Credit: Three hours.

FR 1023. Elementary French. (FREN 1312) Continuation of FR 1013. Prerequisite: FR 1013. Three lecture hours a week. Credit: Three hours.

Spanish Undergraduate Courses

Spanish may be selected as a minor field of study for the Bachelor of Arts or the Bachelor of Science degree. At least 18 semester hours of credit in Spanish are required for a minor in Spanish. Six semester hours must be at the advanced level.

SPAN 1013. Elementary Spanish. (SPAN 1311) For students with no previous instruction in Spanish. A student who presents two admission units in Spanish should enroll in Spanish 1033. Three lecture hours a week. Credit: Three hours.

SPAN 1023. Elementary Spanish. (SPAN 1312) Continuation of SPAN 1013. Prerequisite: SPAN 1013. Three lecture hours a week. Credit: Three hours.

SPAN 1026. Elementary Spanish Immersion. Includes six hours of intensive instruction in basic conversational Spanish and grammatical structures during a Summer session.

SPAN 1033. Review of Grammar; Conversation; Reading. (SPAN 2311) Prerequisite: Two admission units in Spanish or SPAN 1023. Three lecture hours a week. Credit: Three hours.

SPAN 1043. Review of Grammar; Conversation; Reading. (SPAN 2312) Continuation of SPAN 1033. Prerequisite: SPAN 1033. Three lecture hours a week. Credit: Three hours.

SPAN 1093. Elementary Spanish for Health Science Professionals I. (SPAN 2316) For students with no previous instruction in Spanish and enrolled in a health science program. A student who presents two admission units in Spanish should enroll in 1033; native speakers of Spanish should enroll in SPAN 3173. Three lecture hours a week. May not be repeated for credit. Credit: Three hours.

*Satisfies global perspectives graduation requirement and core curriculum requirement for visual/performing arts..

SPAN 1193. Elementary Spanish for Health Science Professionals II. (SPAN 2317) Continuation of SPAN 1093. This course may be taken concurrently with SPAN 1191. Students must be enrolled in a health science program. Prerequisite: SPAN 1093 or permission of instructor. Three lecture hours a week. Credit: Three hours.

SPAN 3153. Spanish Grammar, Composition, and Literature I. The development of writing and reading skills and vocabulary in Spanish. Prerequisites: Three years of high school Spanish, twelve hours of college-level Spanish, or permission of the instructor. Three lecture hours a week. Credit: Three hours.

SPAN 3163. Spanish Grammar, Composition, and Literature II. Continuation of Spanish 3153. Prerequisite: Spanish 3153. Three lecture hours a week. Credit: Three hours.

SPAN 3173. Spanish for Professions. Instruction and practice in understanding and speaking Spanish encountered in various professions, business, community health, criminal justice, social work, sociology, OT, PT, Oral healthcare workplace, and mass communications. Prerequisite: Two years of college-level Spanish or permission of instructor. Three lecture hours a week. Credit: Three hours.

SPAN 3183. Spanish for Heritage Speakers I (SPAN 2313). Emphasis is on aspects of Spanish grammar, reading and writing strategies, and vocabulary building. Prerequisite: Spanish 1033 and Spanish 1043, two years of college Spanish, or consent of the instructor. Three lecture hours a week. Credit: Three hours.

SPAN 3193. Spanish for Heritage Speakers II (SPAN 2315). A continuation of Spanish 3183. Emphasis is on aspects of Spanish grammar, reading and writing strategies, and vocabulary building. Prerequisite: Spanish 3183 or consent of the instructor. Three hours a week. Credit: Three hours.

SPAN 4903. Selected Topics: Spanish Literature and Linguistics. Selected topics in literature written in Spanish and Spanish linguistics. Prerequisites: Twelve hours of Spanish or consent of the instructor. Three lecture hours a week. May repeat for credit when topic varies. Credit: Three hours.

SPAN 4911. Independent Study. For students in whose program there is a need for foreign language study not available to them otherwise because of timing or schedule difficulties. One lecture hour and one laboratory hour a week. Credit: One hour.

SPAN 4913. Independent Study. Selected studies in Spanish language and literature. Three lecture hours a week. Credit: Three hours.

Department of History and Government

Chair: Mark Kessler, Professor

Location: CFO 605

Telephone: (940) 898-2133

Telefax: (940) 898-2130

Email: HistGov@twu.edu

www.twu.edu/history-government

Faculty: Professors V. Belfiglio, L. Hodges, T. Hoye, M. Kessler, B. Presnall, J. Robb, P. Travis; Associate Professor K. Landdeck; Assistant Professors J. Blosser, S. Fanning; Senior Lecturer: P. Devereaux

The Department of History and Government offers programs leading to the Bachelor of Arts, Bachelor of Science, and Master of Arts degrees with majors in either history or government; and the Bachelor of Arts and Bachelor of Science degrees in criminal justice. Special emphases in government/politics, and legal studies are available. The department also offers a minor in history, government, or criminal justice as well as programs leading to teacher certification at various levels. The department provides pre-law advising for students (see pre-law).

For information concerning the Master of Arts degree, and the Master of Arts in Teaching (MAT), see the Graduate Catalog.

For detailed information about any programs in the department, write or e-mail the Chair, Department of History and Government, Texas Woman's University, Box 425889, Denton, Texas 76204-5889. Also, please visit the Department's home page.

Admission Requirements

Please see Admission section of this catalog. The same standards for admission to the University apply to the Department of History and Government.

Undergraduate Degrees

B.A. and B.S. in Government

B.A. and B.S. in History

B.A. and B.S. in Criminal Justice, an interdisciplinary program with the Department of Sociology and Social Work

No grade lower than C can be counted toward completion of any major or minor in this department.

Bachelor of Arts or Bachelor of Science Degree with a History or Government Major

General Description

The Bachelor of Arts and the Bachelor of Science degrees in history or government offer a sound basis for proceeding to graduate programs in these fields, to law school admission, or to careers in public service. In addition, these degrees provide a background for professional preparation in the following fields: library science; teaching at middle school, secondary school, or college level; work with archives, historical associations, museums or national parks; journalism; criminal justice administration; legal assistance; law school; foreign service, non profit, administrative, federal and state civil service.

All history and government majors must complete a minimum of 120 credit hours and meet the general requirements for the degree of Bachelor of Arts or Bachelor of Science as set forth earlier in this catalog.

**Additional required courses for B.S. Degree in History or Government:
One additional English Literature course at the 2000 level. 3 hrs.**

**Additional Required Courses for B.A. Degree in History or Government:
Foreign Language (a total of 12 hrs., all the same language) 12 hrs. and
one additional English Literature course at the 2000 level. 3 hrs.**

**History Courses Required for a History Major(B.A. or B.S.) - thirty hours
beyond 1013, 1023:**

HIST 2013. Survey of World Civilization to 1715; or

HIST 2023. Survey of World Civilization Since 1715

HIST 4843. Senior Seminar

Twenty-one elective advanced hours in history selected from any history courses listed in this catalog, of which 6-9 hours must be non-U.S. If 2013 and 2023 are both completed, six additional non-U.S. hours must be completed. If only one of these courses – 2013 or 2023 – is completed, nine additional non-U.S. hours must be completed.

B.A.*/B.S. in History (120 hours) (Suggested sequence)

FIRST YEAR

First Semester	
ENG 1013 Composition I.....	3
HIST 1013 US History to 1865.....	3
Natural Science w/Lab (core).....	3
Visual / Performing Arts (core).....	3
Oral Communication (core).....	3
Total Hours	15

Second Semester	
ENG 1023 Composition II.....	3
HIST 1023 US History 1865 to Present	3
Natural Science w/Lab (core).....	3
CSCI 1403 1st Course in Computing.....	3
Social/Behavioral Science (core)	3
Total Hours	15

SECOND YEAR

First Semester	
GOV 2013 US Government	3
Humanities (core)	3
**HIST 2013 World Civilization To 1715	3
Elective or Foreign Language for BA	3
MATH 1013 Quantitative Literacy	3
Total Hours	15

Second Semester	
GOV 2023 Texas Government	3
MATH (College Algebra)	3
**HIST 2023 World Civil. Since 1715	3
Elective or Foreign Language for BA	3
Elective	3
Total Hours	15

THIRD YEAR

First Semester	
Elective or Foreign Language for BA	3
History (Advanced)	6
Non US History (Advanced)	3
Electives (Advanced)	3
Total Hours	15

Second Semester	
Elective or Foreign Language for BA	3
History (Advanced)	6
Non US History (Advanced)	3
Electives (Advanced)	3
Total Hours	15

FOURTH YEAR

First Semester	
Non US History (Advanced)	6
Electives (Advanced)	6
Multicultural Women's Studies (core) ...	3
Total Hours	15

Second Semester	
History (Advanced)	6
Electives (Advanced)	6
Senior Seminar	3
Total Hours	15

**If 2013 and 2023 are both completed, six additional non-U.S. hours must be completed. If only one of these courses – 2013 or 2023 – is completed, nine additional non-U.S. hours must be completed.

All students must complete six credit hours in approved Global Perspectives courses, either in the core or major courses (graduation requirement).

*Students seeking the Bachelor of Arts (B.A.) must complete the foreign language requirement.

Government Courses Required For a Government Major (B.A. or B.S.):

(The student may choose from two separate emphases. Each requires thirty hours of government.)

GOVERNMENT MAJOR (Emphasis in Government/Politics)

GOV 4073. Constitutional Law: Governmental Structure
 GOV 4833. Introduction to Political Science
 GOV 3303. The American Legislative Process
 GOV 4613. Comparative Government: Western Europe
 or

GOV 4633. Comparative Government: Africa and Asia
 GOV 4933. Senior Seminar

Plus three hours in advanced American Government from among:

GOV 3053. The American Presidency
 GOV 3063. Women in Politics
 GOV 4113. Public Administration

Plus three hours in Political Theory from among:

GOV 3513. Japanese Culture and Politics
 GOV 3723. Modern Political Thought

Plus three hours in International Relations from among:

- GOV 4523. American Foreign Policy
- GOV 4533. International Relations
- GOV 4553. Modern Nationalism

Plus nine more hours in government.

GOVERNMENT MAJOR (Emphasis in Legal Studies)

- GOV 3153. Legal Environment
- GOV 3303. The American Legislative Process
- GOV 3393. Law for Women
- GOV 4083. Constitutional Law: Individual Rights; OR
- GOV 4093. Constitutional Rights and Criminal Justice
- GOV 4813. Seminar in Public Policy
- GOV 4933. Senior Seminar

Plus three hours of government from among:

- GOV 2213. Introduction to Criminal Justice
- GOV 2223. Criminal Investigation
- GOV 3063. Women in Politics
- GOV 3123. Legal Research
- GOV 4203. Civil Trial Practice and Litigation
- GOV 3213. Business & Legal Ethics
- GOV 3233. Police Policies and Practices
- GOV 3243. Criminal Law
- GOV 3253. Criminal Evidence and Procedure
- GOV 3413. Estate Planning
- GOV 4133. Women in Leadership
- GOV 4013. Alternative Dispute Resolution
- GOV 4433. Family Law
- GOV 4453. Real Estate Law

Plus three hours of government from among:

- GOV 3053. The American Presidency
- GOV 3133. Legal Research II
- GOV 3513. Japanese Culture and Politics
- GOV 3723. Modern Political Thought
- GOV 4073. Constitutional Law: Governmental Structure
- GOV 4523. American Foreign Policy
- GOV 4533. International Relations
- GOV 4553. Modern Nationalism
- GOV 4603. Legal Studies Internship
- GOV 4606. Legal Studies Internship
- GOV 4613. Comparative Government: Western Europe
- GOV 4633. Comparative Government: Africa and Asia
- GOV 4833. Introduction to Political Science

Plus any six hours of government

B.A*/B.S. in Government (120 hours)**FIRST YEAR**

First Semester	Second Semester
ENG 1013 Composition I..... 3	ENG 1023 Composition II..... 3
HIST 1013 US History to 1865..... 3	HIST 1023 US History 1865 to Present 3
Natural Science w/Lab (core)..... 3	Natural Science w/Lab (core)..... 3
Visual / Performing Arts (core)..... 3	CSCI 1403 1st Course in Computing..... 3
Oral Communication (core)..... 3	MATH 1013 Quantitative Literacy..... 3
Total Hours 15	Total Hours 15

SECOND YEAR

First Semester	Second Semester
GOV 2013 US Government 3	GOV 2023 Texas Government 3
Humanities (core)..... 3	MATH (College Algebra) 3
HIST 2013 World Civilization To 1715. 3	HIST 2023 World Civilization Since 1715 3
Elective or Foreign Language for BA.... 3	(recommended elective)
Elective 3	Elective or Foreign Language or BA..... 3
Total Hours 15	Social/Behavioral Science (core) 3
	Total Hours 15

THIRD YEAR

First Semester	Second Semester
Elective or Foreign Language for BA 3	Elective or Foreign Language for BA 3
GOV (Required) 6	GOV (Required) 6
GOV (Elective) 3	GOV (Elective) 3
Elective 3	Multicultural Women's Studies (core)..... 3
Total Hours 15	Total Hours 15

FOURTH YEAR

First Semester	Second Semester
GOV (Required) 6	GOV (Required) 6
Electives (Advanced) 6	Electives (Advanced) 6
Electives 3	Senior Seminar 3
Total Hours 15	Total Hours 15

All students must complete six credit hours in approved Global Perspectives courses, either in the core or major courses (graduation requirement).

*Students seeking the Bachelor of Arts (B.A.) must complete the foreign language requirement.

Internship Experience

All majors and minors in the Department are encouraged to add an internship to their classroom curricula. Internships allow students to expand and apply traditional learning through real life experiences in the local, national, and global workplace. They also provide an opportunity for students to network with professionals in the field, and clarify choices when making career decisions.

Teacher Certification

The Department of History and Government offers a variety of undergraduate and graduate programs resulting in state teacher certification at either the elementary or secondary level requiring 120 credit hours. Each of the options listed for certification must be completed in compliance with requirements set by the Texas Education Agency and the Texas Higher Education Coordinating Board.

All students desiring teacher certification must comply with all certification requirements as outlined by the College of Professional Education in the appropriate sections of this catalog. Contact the department of History and Government for details of teacher certification plans.

B.A. / B.S. in Criminal Justice

The Department of History and Government offers both the BS and BA degrees with a major in criminal justice. The Criminal Justice Program is offered in partnership with the Department of Sociology and Social Work.

For complete information about the major in criminal justice, please see the Criminal Justice Program section of this catalog.

Minor (Optional) 18 hours

Electives as necessary to total 120 hours, of which 36 must be advanced

- **Students are encouraged to select internship credit as part of the electives.**

Minor in History or Government

The department also offers a minor either in history or government. A minor in history requires 18 semester hours of history (at least six hours advanced). A minor in government requires 18 semester hours of government (at least six hours advanced). At least half of the advanced hours in a minor must be taken at TWU.

Minor in Criminal Justice

A minor in criminal justice is available. Please see Criminal Justice Program section of this catalog for details.

Ethnic Studies Minor

In cooperation with the Departments of Reading and Bilingual Education, Educational Leadership, English, Speech and Foreign Languages, Performing Arts, and Sociology and Social Work, the Department of History and Government offers a minor in Ethnic Studies. See the Academic Information section of this catalog for the listing of courses.

Elementary Certification with a Specialization in History (120 hours)

Elementary certification with a specialization in history requires 18 hours of advanced history, (1013, 1023 are not advanced). American History; HIST 2013 or HIST 2023, World Civilization; and nine hours from advanced offerings from among: Latin-American, American or English history.

Pre-Law

Law schools have no prescribed pre-law curriculum, program, or major. According to the Statement on Prelegal Education of the Association of American Law Schools, the best undergraduate preparation is that which involves education for comprehension and expression in words, understanding of human institutions and values, and the ability to think clearly and carefully with an awareness of the importance of facts and a capacity for deductive and inductive reasoning and critical analysis.

Law School Admissions Services Bulletins and packets, including information concerning admissions and sample questions from Law School Tests, may be obtained from the Pre-Law Advisor in the Department of History or Government.

Although there is no prescribed pre-law curriculum, the Department recommends a degree in Government, Criminal Justice, or History, each of which provides a valuable Liberal Arts background for the study of law.

The Government Major (emphasis in Legal Studies) provides a strong foundation for those interested in pursuing law school or other law-related graduate programs, as well as those who wish to move directly into the paralegal field. Legal Studies students will take courses that develop their abilities to think critically, write and speak effectively, and solve problems. They will also have a broad choice of electives dealing with the law-making process, public policy, and the historical context of our legal system. Of special value are opportunities to intern with law firms, corporate legal departments, and government agencies. The major in Government (Legal Studies) consists of 30 semester hours as outlined above. Texas Woman's University also offers a Legal Studies Certificate. Consult the Legal Studies advisor or the History and Government home page (<http://www.twu.edu/history-government/>) for further information.

History Undergraduate Courses

***HIST 1013. History of the United States, 1492-1865.** (HIST 1301) Political, economic, social, and cultural development through the Civil War. Three lecture hours a week. Credit: Three hours.

***HIST 1023. History of the United States, 1865 to the Present.** (HIST 1302) Political, economic, social, and cultural development since the Civil War; emphasis on foreign affairs. Three lecture hours a week. Credit: Three hours.

****HIST 2013. Survey of World Civilization to 1715.** (HIST 2321) A survey of ancient and medieval culture and history and the beginning of the modern era.

*Satisfies core requirement for history.

**Satisfies global perspectives requirements for graduation.

Topics include the broad spectrum of human activity, the politics, wars, industry, economics, culture, intellectual thought, science, artistic creations, and the inter-relationships both with other cultures and with a world environment. Three lecture hours a week. Credit: Three hours.

****HIST 2023. Survey of World Civilization Since 1715.** (HIST 2322) A survey of modern culture and history as related to recent developments. Topics include the broad advances in human society, government, science, literature, philosophy, war and peace, industry, culture, intellectual thought, artistic creations, and the growth of first national and then world economic factors. Emphasis the myriad of interactions within world civilizations. Three lecture hours a week. Credit: Three hours.

HIST 3023. American Frontier. Survey of westward expansion between European colonization and 1900. Review of recognizable groups such as trappers, miners, Amerindians and of famous and infamous individuals. Evolution of attitudes about the frontier and its influence on the national character. Three lecture hours a week. Credit: Three hours.

HIST 3103. Colonial America. In-depth study of the period of national development between European colonization and 1790. Emphasis is upon the cultural, religious, economic and political aspects of the period and upon persons and groups associated with change and continuity in colonial America. Three lecture hours a week. Credit: Three hours.

HIST 3213. History of Law and Justice. Historical examination of the origins of law and justice in western civilization beginning with the ancient cultures of Greece and Rome, medieval Europe, and the development of English common law with its particular attention to the influence of the English system of justice upon modern America. Prerequisite: Three hours of history or permission of instructor. Three lecture hours a week. Credit: Three hours.

****HIST 3223. Social Studies.** Historical review of key figures and events, civic responsibilities, and the relationship of government, economics, and geography in Texas, the United States, and the world. Three lecture hours a week. Credit: Three hours.

HIST 3433. History of England to 1714. The growth of England, along with Scotland, Wales, and Ireland, to 1714, her culture, parliamentary institutions, economy, the beginning of her empire, the major leaders and events, the creation of a civilization typically English, and the passage of her legacy to her empire in America, Africa, and the Pacific Asian circle. Prerequisites: Six hours of history. Three lecture hours a week. Credit: Three hours.

HIST 3443. History of England since 1714. (HIST 2313) The development of English culture; the growth of democracy; her art and architecture, theatre, and intellectual strength; the development of the British Empire and its role in world affairs since 1714; her influence in the independence movements in Africa, Asia,

****Satisfies global perspectives requirements for graduation.**

and the South Pacific; and her major leaders, such as Winston Churchill, and their roles in the English speaking world with its cultural heritage. Prerequisite: Six hours of history. Three lecture hours a week.

HIST 3713. The History of Texas. (HIST 2301) Spanish beginnings; Mexican years; revolution and the republic: statehood, Civil War, and Reconstruction; reform years; depression and war; economic, political, and social developments today. Prerequisite: Three hours of history. Three lecture hours a week. Credit: Three hours.

HIST 3753. History of Mexico. (HIST 2380) Pre-Columbian Mexico; the Spanish Conquerors; evolution of colonial society; the movement for independence; 19th century efforts at modernization; the revolution: the military phase, 1910-1920; the revolution; contemporary Mexican-U.S. relations. Three lecture hours a week. Credit: Three hours.

HIST 3763. History of Colonial Latin America. From colonial times to the present; the origins of a multiracial society; the institutions of empire; independence; national consolidation; problems of modernization and the movements for social revolution. Special emphasis on Argentina, Brazil, Chile, and Mexico. Prerequisite: Six hours of history or consent of instructor. Three lecture hours a week. Credit: Three hours.

HIST 3773. History of Modern Latin America. From the nineteenth through the twentieth centuries, including topics of: economic dependency, revolution, popular social movements, US-Latin American relations during the Cold War; issues of race, gender, ethnicity, and class. Emphasis on Mexico, Cuba, Brazil, Argentina and Central America. Prerequisite: HIST 3763. Three lecture hours a week. Credit: 3 hours.

HIST 4001. Creating Canada: The Canadian Frontier Experience. A brief survey of the formation of Canadian culture, economics, and politics from European contact through the 19th century. Emphasis is on the relationship between early French, British, and Amerindian persons, and on the influence of the frontier in shaping Canadian character. One lecture hour a week. Credit: One hour.

HIST 4011. Creating Australia: The Australian Frontier Experience. A brief survey of the formation of Australian culture, economics, and politics from European contact through World War I. Emphasis is on the relationship between early free and convict British settlers and the aborigines, and on the influence of the frontier in shaping Australian character. One lecture hour a week. Credit: One hour.

HIST 4013. History of Death and Dying. Cross-cultural and interdisciplinary perspective on the historical literature on death and dying, touching on indigenous, European, and African customs and beliefs, the development of these practices in the Americas, and the evolution of "American" death ways to the present. Prerequisite: HIST 1013. Three lecture hours a week. Credit: Three hours.

HIST 4021. The Commonwealth Today: Issues Facing Individual Nations Within the Former British Empire. A brief overview of major internal conflicts facing various nations of the former British Empire. Significant issues, such as South African Apartheid, Indian religious conflicts, and Hong Kong reversion to Chinese authority, will be discussed and evaluated. The impact of the British imperial experience upon each of these areas will be considered.. One lecture hour a week. Credit: One hour.

HIST 4113. Civil War & Reconstruction. Intense reading and discussion of the Civil War and Reconstruction with a critical eye on various historian's opinions and viewpoints. This course will not only give students an in-depth look at the Civil War and Reconstruction but will teach students how to critically examine and compare historical writings. Three lecture hours a week. Credit: Three hours.

HIST 4123. The Progressives. Students will gain an appreciation for the Progressive Era; its current issues along with preceding events that led up to this movement. Issues discussed will include the philosophies of the Progressives in relation to the environment, war, race, and diversity. Students will have a chance to reflect on how the Progressive movement impacted history and influenced our world today. Three lecture hours a week. Credit: Three hours.

HIST 4133. Between the Wars. Detailed study of the two decades of American life between the Great War and World War I, including an overview of the major political, social, economic and cultural themes of the 1920's and 1930's emphasizing the long term causes and effects of significant issue and events during this period. Three lecture hours a week. Credit: Three hours.

HIST 4143. The Gilded Age. Intense reading and discussion of the Gilded Age with a critical eye on various historian's opinions and view points. This course will not only give students an in-depth look at the Gilded Age but will teach students how to critically exam and compare historical writings. Three lecture hours a week. Credit: Three hours.

***HIST 4233. Global Issues and Trends.** A general survey of various nations, regions and cultures. The emphasis is on the modern period, the historical roots of significant issues, the impact of geography and religion, and the interactions of various ethnic and racial groups. Three lecture hours a week. Credit: Three hours.

HIST 4363. Slavery in the Americas. A broad survey of the many different types of slave systems throughout the Americas and the many different forms of slave resistance. Three lecture hours a week. Credit: Three hours.

HIST 4373. History of Haiti. Development and history of Haiti from its origins as a French colony to the present day including race, slavery, revolution, and nation building. Three lecture hours a week. Credit: Three hours.

HIST 4403. Religion in an Atlantic World, 1450-1776. Cross-cultural study of religious ideas and practice in colonial America from the pre-Columbian era through 1776; varied religious experiences of indigenous groups, Spanish, French, English, Dutch, and German colonists, and enslaved African Americans are compared and contrasted. Three lecture hours a week. Credit: Three hours.

*Satisfies graduation requirement for global perspectives.

HIST 4413. The American Revolution. Social, cultural, economic, and political causes of the American war for independence, the military progress of the war, and its impact upon men, women, Loyalists, Patriots, Native-Americans, and African-Americans. Three lecture hours a week. Credit: Three hours.

HIST 4513. Europe Since 1914. The beginning of World War I; the impact of the war; the rise of a new Europe; the rise of Hitler and Mussolini; the culture and civilization of twentieth-century Europe; World War II; modern problems since 1945. Prerequisites: Six hours of history or consent of instructor. Three lecture hours a week. Credit: Three hours.

HIST 4543. History of Russia. Origins of early Russian civilization, the cultural diversity of the original state of Russia and the surrounding areas which created an empire of “all the Russias,” the growth of the state, the czarist regimes, the Communist revolution, the growth of Red Russia, her role in world affairs, the overthrow of the Communist regime, the disintegration of the USSR, and the problems and promises of contemporary “Russia.” Prerequisite: Six hours of history. Three lecture hours a week. Credit: Three hours.

HIST 4553. History of France. The beginning of an early French culture, the Roman conquest, the cultural panorama of medieval France, growth of the French monarchy, the Renaissance, the Age of Louis XIV, the Age of Reason, the French Revolution and Napoleon, modern France, Charles de Gaulle, and contemporary France and French culture in the world today. Prerequisite: Six hours of history. Three lecture hours a week. Credit: Three hours.

HIST 4613. The American Experience in Asia. The U.S. and specific East Asian nations’ relationships. Historic experience of America in Japan, China, the Philippines and South East Asia in developing better understanding of region’s place in the modern world. Examination of nations’ religious, cultural, economic and political heritage. Three lecture hours a week. Credit: Three hours.

HIST 4663. European Cultural Heritage. Survey of the cultural highlights of Western Civilization and the ages which influenced them. The social, political and religious circumstances and attitudes of people in various periods, and how these affected the great works of literature, art and music will be examined. Three lecture hours a week. Credit: Three hours.

HIST 4803. History Internship. Integrates practical experience with the student’s academic program through supervised work in an appropriate professional environment. Prerequisite: Twelve hours of history, including six hours advanced, and approval of internship director. Credit: Six hours. May be repeated.

HIST 4806. History Internship. Integrates practical experience with the student’s academic program through supervised work in an appropriate professional environment. Prerequisite: Twelve hours of history, including six hours advanced, and approval of internship director. Credit: Six hours. May be repeated.

HIST 4843. Senior Seminar. Capstone course for all history majors; focus on extensive readings and portfolio development including both verbal and written presentation of research findings. Prerequisite: Fifteen hours of advanced history

or consent of instructor. Three seminar hours a week. Credit: Three hours.

HIST 4893. Medieval Europe. A general survey of medieval European society, culture, and economy from the 4th through the 15th centuries, focusing on topics such as the development of agriculture, the growth of commerce, the cultural influence of religion, the revival of learning, and the role of women. Three lecture hours a week. Credit: Three hours.

HIST 4901. Selected Topics. Organized course with each section's title and content varying with specific subject matter and topic offered. One lecture hour per week. Credit: One hour.

HIST 4903. Selected Topics. Organized course with each section's title and content varying with specific subject matter and topic offered. Three lecture hours a week. Credit: Three hours.

HIST 4911. Independent Study. Individual study of selected topics in history. Prerequisites: Six hours of history and junior standing or consent of instructor or head of department. Credit: One hour.

HIST 4913. Independent Study. Individual study of selected topics in history. Prerequisites: Six hours of history and junior standing or consent of instructor or head of department. Credit: Three hours.

Graduate Courses

Please refer to the Graduate Catalog or the department website for information about our graduate courses.

Government Undergraduate Courses

***GOV 2013. U.S. National Government.** (GOVT 2305) Origin and development of the U.S. Constitution; structure and powers of the national government including the legislative, executive, and judicial branches; federalism; democratic theory, political participation, and the national election process; policy-making and factors influencing national policy decisions; civil liberties and civil rights; American foreign relations; demographics and the politics of race, gender, and class in the American political system. Three lecture hours a week. Credit: Three hours.

***GOV 2023. Texas Government.** (GOVT 2306) Origin and development of the Texas Constitution; structure and powers of the state government including the legislative, executive, and judicial branches; federal-state relations; political participation and the election process in Texas; local governments; policy-making and factors influencing policy decisions in Texas; demographics and the politics of race, gender, and class in the Texas political system. Three lecture hours a week. Credit: Three hours.

GOV 2093. Woman as Citizens: Women and Community Activism. Interdisciplinary analysis of women's roles in community building from colonial period

*Satisfies core requirement for government.

to present and examination of current grassroots activism in the United States and worldwide. Emphasis on women leaders, interest groups, and movements impacting the political process. Required community service internship.

GOV 2213. Introduction to Criminal Justice. (CRIJ 1301) History and philosophy of criminal justice and ethical considerations; crime defined: its nature and impact; overview of criminal justice system; law enforcement; court system; prosecution and defense; trial process; corrections. Prerequisite: Three hours of government or consent of instructor. Three lecture hours a week. Credit: Three hours.

GOV 2223. Criminal Investigation. (CRIJ 2314) Investigative theory; collection and preservation of evidence; interview and interrogation; uses of forensic sciences; case and trial preparation. Prerequisite: Three hours of government or permission of the instructor. Credit: Three hours.

GOV 2233. Environmental Science, Economics, and Law. Interdisciplinary introduction to the challenge of environmental protection. Examines issues on the scientific, economic, political, and legal issues that affect this area, including the current state of the environment and the processes and institution which shape environmental law and policy. Three lecture hours a week. Credit: Three hours.

GOV 3053. The American Presidency. Recruitment, selection, and authority; interaction of the executive branch with Congress, parties, the courts, and the public; the influence of personality on performance. Prerequisite: Three hours of government or consent of instructor. Three lecture hours a week. Credit: Three hours.

GOV 3063. Women in Politics. Impact of gender on power and influence in society; political socialization, participation and leadership of women; women's political issues and movements. Prerequisite: Three hours of government or consent of instructor. Three lecture hours a week. Credit: Three hours.

GOV 3123. Legal Research. Techniques of legal research and writing, sources of the law and how each can be found; case analysis, legal citation, legal bibliography, and computer-assisted legal research. Prerequisite: GOV 3113 or permission of instructor. Three lecture hours a week. Credit: Three hours.

GOV 3133. Legal Research II. Analysis of legal problems, and drafting effective communication of that analysis through drafting legal documents such as office memoranda, letters, pleadings, motions, briefs, contracts, and wills. Discussion of writing style focusing on the policies underlying conventions of composition and presentation of legal authority. Prerequisite: GOV 3123, Legal Research, or instructors permission . Three lecture hours a week. Credit: Three hours.

GOV 3153 (see BUS 3153). Legal Environment. (CRIJ 1306) Introduction to law and the legal professions; the role of the various actors in the legal process including lawyers, paralegals, judges, and court administrators; legal ethics; basic legal terminology; structure, functions, and political impact of the judicial system at the local, state, and national levels. Prerequisite: Three hours of government or instructors permission. Three lecture hours a week. Credit: Three hours.

GOV 3233. Police Policies and Practices. (CRIJ 2328) The police profession; organization of law enforcement systems; the police role; police discretion; ethics;

police-community interaction; current and future issues. Prerequisite: Three hours of government or consent of the instructor. Three lecture hours a week. Credit: Three hours.

GOV 3243. Criminal Law. (CRIJ 1310) A study of the nature of criminal law; philosophical and historical development; major definitions and concepts; classification of crime; elements of crimes and penalties using Texas statutes as illustrations; criminal responsibility. Prerequisite: Three hours of government or consent of instructor. Three lecture hours a week. Credit: Three hours.

GOV 3253. Criminal Evidence and Procedure. The judiciary in the criminal justice system; structure of American court system; prosecution; right to counsel; pre-trial release; grand juries; adjudication process; types and rules of evidence; sentencing. Prerequisite: Three hours of government or consent of instructor. Three lecture hours a week. Credit: Three hours.

GOV 3293 (see BUS 3293). Business and Legal Ethics. An introduction of ethical theory and the analysis of social and professional issues from various ethical perspectives; the course will focus on aspects of professional ethics in areas of business, government, law, and the health care professions. Three lecture hours a week. Credit: Three hours.

GOV 3303. The American Legislative Process. The legislative branch of government; including both Congress and state legislative bodies; influences on the legislative process. It will be given in alternate spring semesters coinciding with the biennial sessions of the Texas Legislature and using the current session for special class study. Prerequisites: Three hours of government or consent of instructor. Three lecture hours a week. Credit: Three hours.

GOV 3333. Urban Government. Political processes and structures of government in urban, suburban, and metropolitan areas. Prerequisite: Three hours of government or consent of instructor. Three lecture hours a week. Credit: Three hours.

***GOV 3393. Law for Women.** (See BUS 3393 and WS 3393) Impact of gender on legal status; evolution of the current legal environment, with an emphasis on parallels between racial and gender discrimination; substantive law regarding working conditions, compensation, education, the family, reproductive rights and criminal law; feminist perspectives on legal reforms to improve the professional lives of women and men. Three lecture hours a week. Credit: Three hours.

GOV 3413. Estate Planning. Probating wills; family planning; stocks; buying or selling a home; insurance needs; minimizing taxes; Social Security; consumer purchasing; bank accounts; urgent need for a will. Three lecture hours a week. Prerequisite: Three hours of government or consent of instructor. Credit: Three hours.

GOV 3513. Japanese Culture and Politics. An introduction to modern Japan with particular emphasis on Japanese politics. Topics include Japanese language and literature, geography, religion, the arts, social dynamics, education, economics, history, constitutionalism, government institutions, political parties, elections, and

*Satisfies core requirement for multicultural women's studies.

foreign policy. The Japanese way of politics is related to larger forces in Japanese culture. Three lecture hours a week. Credit: Three hours.

GOV 3723. Modern Political Thought. A study of Western political theory from the Renaissance to the present with particular emphasis on the development of contemporary ideologies: liberalism, socialism, nationalism, Marxism, fascism. Prerequisites: Three hours of government or consent of the instructor or head of department. Three lecture hours a week. Credit: Three hours.

GOV 3733. American Political Thought. An examination of the origins and development of the American political character as reflected in ideas, institutions and events. Prerequisites: Three hours of government and consent of the instructor or head of department. Three lecture hours a week. Credit: Three hours.

GOV 4001. Creating Canada: The Canadian Frontier Experience. A brief survey of the formation of Canadian culture, economics, and politics from European contact through the 19th century. Emphasis is on the relationship between early French, British, and Amerindian persons and the influence of the frontier in shaping Canadian character. One lecture hour a week. Credit: One hour.

GOV 4011. Creating Australia: The Australian Frontier Experience. A brief survey of the formation of Australian culture, economics, and politics from European contact through World War I. Emphasis is on the relationship between early free and convict British settlers and the aborigines and the influence of the frontier in shaping Australian character. One lecture hour a week. Credit: One hour.

GOV 4013. Alternative Dispute Resolution. Introduction to alternatives to litigation to resolve disputes. Consideration of traditional negotiation, mediation, arbitration, moderated settlement conferences, and minitrials. Prerequisite: GOV 3133 or permission of instructor. Three lecture hours a week. Credit: Three hours.

GOV 4021. The Commonwealth Today: Issues Facing Individual Nations Within the Former British Empire. A brief overview of major internal conflicts facing various nations of the former British Empire. Significant issues, such as South African Apartheid, Indian religious conflicts, and Hong Kong reversion to Chinese authority, will be discussed and evaluated. The impact of the British imperial experience upon each of these areas will be considered. One lecture hour a week. Credit: One hour.

GOV 4073. Constitutional Law: Governmental Structure. The development of the American Constitution through judicial interpretation by the Supreme Court, including cases involving commerce, taxation, divisions of powers, and separation of powers. Prerequisites: Three hours of government or consent of instructor. Three lecture hours a week. Credit: Three hours.

GOV 4083. Constitutional Law: Individual Rights. Judicial cases, especially those involving the Bill of Rights, the Fourteenth and Fifteenth Amendments. Prerequisites: Three hours of government or consent of instructor. Three lecture hours a week. Credit: Three hours.

GOV 4093. Constitutional Rights and Criminal Justice. Constitutional rights as interpreted by courts and application by criminal justice personnel. Analysis of decisions and empirical research assessing the extent to which decisions are con-

sistently applied by criminal justice personnel. Three lecture hours a week. Credit: Three hours.

GOV 4113. Public Administration. Introduction to the study of bureaucracies. Examines such theoretical, political, and practical issues as decision-making, budgeting, staffing, and organizational structure. Considers the influence of bureaucracy on policy formation and implementation. Prerequisite: Three hours of government or consent of instructor. Three lecture hours a week. Credit: Three hours.

GOV 4133. Women in Leadership. An introduction to the principles and practices of leadership, with emphasis on women in exercising leadership. Stresses political leadership, but includes business and community leadership as well. Prerequisite: Sophomore standing or above or consent of instructor. Three lecture hours a week. Credit: Three hours.

GOV 4143. Drug Law and Policy. Legal and political aspects of federal and Texas drug laws, including the Controlled Substances Act and Dangerous Drugs Act. Prerequisite: Three hours of government or consent of instructor. Three lecture hours a week. Credit: Three hours.

GOV 4203. Civil Trial Practice and Litigation. Texas and federal laws regarding preparation and trial of civil actions; procedures for recovering compensation from automobile accidents, miscellaneous torts, and breach of contract. Follow a civil suit through the judicial system from the initial client interview through trial and appeal. Prerequisite: Three hours of government or consent of instructor. Three lecture hours a week. Credit: Three hours.

GOV 4433. Family Law. Study of the legal aspects of marriage/other relationships; duties and liabilities of husband/wife/children; adoption; illegitimacy; annulment; separation; divorce, delinquent children; field trip(s). Prerequisite: Three hours of government or consent of instructor. Three lecture hours a week. Credit: Three hours.

GOV 4453. Real Estate Law. Legal principles governing real estate transactions, with particular attention to sales contracts, deeds, mortgages, title insurance, and Texas community property and homestead laws. Prerequisite: Three hours of government or consent of instructor. Three lecture hours a week. Credit: Three hours.

GOV 4503. Criminal Justice Internship. Integrates practical experience with the student's academic program through supervised work in a related professional environment. Prerequisite: Twelve hours of government, including six hours advanced, and approval of internship director. Credit: Three hours. May be repeated.

GOV 4506. Criminal Justice Internship. Integrates practical experience with the student's academic program through supervised work in a related professional environment. Prerequisite: Twelve hours of government, including six hours advanced, and approval of internship director. Credit: Six hours. May be repeated.

GOV 4523. American Foreign Policy. Constitutional framework and actors in foreign policy decision-making; roles of the President and Congress; the art of diplomacy. Prerequisite: Three hours of government or consent of instructor. Three

lecture hours a week. Credit: Three hours.

***GOV 4533. International Relations.** The interaction of countries and non-state actors in the area of diplomacy, international law, international economics, international organization, and war. A study of the general pattern of political, economic, social, geographical, and technological relationships in world affairs. Prerequisite: Six hours of government or permission of instructor. Three lecture hours a week. Credit: Three hours.

GOV 4553. Modern Nationalism. Modern nationalism; patriotism and nationality; the impact of nationalism on current world events. The course will demonstrate how nationalism can lead to terrorism and civil warfare. Prerequisite: Three hours of government or consent of instructor. Three lecture hours a week. Credit: Three hours.

GOV 4603. Legal Studies Internship. Integrates practical experience with the student's academic program through supervised work in a related professional environment. Prerequisite: Nine hours of legal assistant courses and approval of internship director. Credit: Three hours. May be repeated.

GOV 4606. Legal Studies Internship. Integrates practical experience with the student's academic program through supervised work in a related professional environment. Prerequisite: Nine hours of legal assistant courses and approval of internship director. Credit: Six hours. May be repeated.

GOV 4613. Comparative Government: Western Europe. Constitutional structures, methods, philosophies, and policies of selected governments in the Western world. Prerequisite: Three hours of government or consent of instructor. Three lecture hours a week. Credit: Three hours.

GOV 4633. Comparative Government: Africa and Asia. Constitutional structures, methods, philosophies, and policies of selected Asian and African governments. Prerequisite: Three hours of government or consent of instructor. Three lecture hours a week. Credit: Three hours.

GOV 4703. Public Affairs Internship. Integrates practical experience with the student's academic program through supervised work in a related professional environment. Prerequisite: Twelve hours of government, including six hours advanced, and approval of internship director. Credit: Three hours. May be repeated.

GOV 4706. Public Affairs Internship. Integrates practical experience with the student's academic program through supervised work in a related professional environment. Prerequisite: Twelve hours of government, including six hours advanced, and approval of internship director. Credit: Six hours. May be repeated.

GOV 4803. Government Internship. Integrates practical experience with the student's academic program through supervised work in a related professional environment. Prerequisite: Twelve hours of government, including six hours of advanced government, and consent of internship coordinator. Credit: Three hours. May be repeated.

GOV 4806. Government Internship. Integrates practical experience with the student's academic program through supervised work in a related professional environment.

*Satisfies global perspectives graduation requirement.

ronment. Prerequisite: Twelve hours of government, including six hours advanced, and approval of internship director. Credit: Six hours. May be repeated.

GOV 4813. Seminar in Public Policy. Analysis of the formation, implementation, and impact of public policy in selected areas of current interest. Prerequisite: Three hours of government or consent of instructor. Three lecture hours a week. Credit: Three hours. May be repeated.

GOV 4833. Introduction to Political Science (GOVT 2304). Research in political science; emphasis on sources and documentary study, interpretations, and presentation of ideas in written form. Prerequisite: Three hours of government or consent of instructor. Credit: Three hours.

GOV 4901. Selected Topics. Organized course with each section's title and content varying with specific subject matter and topic offered. Prerequisite: Three hours of government or consent of instructor. One lecture hour a week. Credit: One hour.

GOV 4903. Selected Topics. Organized course with each section's title and content varying with specific subject matter and topic offered. Prerequisite: Three hours of government or consent of instructor. Three lecture hours a week. Credit: Three hours.

GOV 4911. Independent Study. Individual study of selected topics in government. Prerequisite: Three hours of government or consent of instructor. Credit: One hour.

GOV 4913. Independent Study. Individual study of selected topics in government. Prerequisite: Three hours of government or consent of instructor. Credit: Three hours.

GOV 4933. Senior Seminar. Capstone course for all government majors; focus on extensive readings and portfolio development including both verbal and written presentations of research findings. Prerequisite: Fifteen hours of advanced government or consent of instructor. Three seminar hours a week. Credit: Three hours.

GOV 4953, 4956. Cooperative Education.

Graduate Courses

Please refer to the Graduate Catalog or the department website for information about our graduate courses.

Department of Mathematics and Computer Science

Chair: Don E. Edwards, Professor

Location: MCL 302

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www.twu.edu/math-computer-science/

Faculty: Professors M. Demuynck, D. Edwards, E. Grigorieva, W. Mallam, D. Marshall; Associate Professors M. Hamner, D. Hogan, J. Navarra-Madson; Assistant Professors C. Gawlik, A. Wheeler, J. Zhang; Senior Lecturers C. Banks, E. Hays.

The Department of Mathematics and Computer Science offers programs leading to the degrees of Bachelor of Arts, Bachelor of Science, Master of Arts, Master of Science, and Master of Science in Mathematics Teaching.

The baccalaureate programs in mathematics and in computer science are intended to prepare the student for further work in mathematics or computer science at the graduate level, for teaching at the middle and high school levels, for employment as a mathematician or computer scientist, or for employment in a mathematics-related or computer science-related area in industry or government.

To support the diverse needs of our students, the department provides a variety of options for both computer science and mathematics majors. Those seeking the Bachelor of Science degree in Computer Science may choose a specialization in either Information Technology or Programming/Software Engineering. The Computer Science program follows the proposed Field of Study Curriculum for the Bachelor of Science in Computer Science from the Coordinating Board. Students seeking the Bachelor of Science degree in Mathematics may choose a specialization in Engineering Studies, Computational Math, or Statistics. Programs tailored for those seeking teacher certification are available for both mathematics and computer science majors. Specific requirements for these specializations can be found on our web page, www.twu.edu/math-computer-science.

Admission Requirements

Please see Admission section of this catalog.

Special Requirements

A Mathematics or Computer Science major requires a minor of at least 18 semester hours of which a minimum of 6 hours must be upper division. Students may choose a minor from any offered at the university. For students seeking teacher certification, the required education courses will be taken in lieu of a minor.

Only mathematics and computer science courses in which a grade of C or better is received may be counted as part of a mathematics or computer science major or minor.

Undergraduate Degrees: Minimum of 120 credit hours

B.A. and B.S. in Mathematics

B.S. in Computer Science

Minor

The department offers minors in Mathematics, Computer Programming/Software Engineering, Computer Applications, Digital Media and Information Systems. Course selections are tailored to the student's needs in consultation with departmental advisors.

Teacher Certification

The department offers teacher certification in mathematics at both the 4-8 and 8-12 levels and in Computer Science (8-12). Students should contact the chair of Mathematics and Computer Science for details or check the department web pages for more information.

Engineering - A Special Opportunity for TWU Students

TWU provides options for students interested in pursuing an engineering degree at cooperating Texas universities while completing a special program of study at TWU. Scholarships are available for qualified applicants.

For information about these engineering options, contact the department or visit our website.

Bachelor of Science in Mathematics**Required Mathematics Courses**

MATH 2014 Calculus I

MATH 2024 Calculus II

MATH 3053 Abstract Algebra

MATH 3104 Calculus III

MATH 4013 Probability and Statistics

One of the following:

MATH 3063 Linear Algebra

MATH 3073 Matrix Methods

246 Mathematics and Computer Science

Mathematics Electives

15 additional mathematics hours required, 6 of which must be upper level.

MATH 1013, 1023, 1303, 1313 may not be counted toward the major

Other Requirements

CSCI 3013 Applied Computational Thinking

Core Curriculum completion

Elective hours as needed to complete a minimum of 120 hours of college level coursework.

B.S. in Mathematics (Sample 120 hour Academic Plan)

FIRST YEAR

First Semester	Second Semester
ENG 1013 Comp I..... 3	ENG 1023 Comp II 3
HIST 1013 U.S. History 3	HIST 1023 U.S. History..... 3
SPCH 1013 Oral Communication..... 3	MATH 1313 Elem Anal II (core) 3
CSCI 1403 A 1st Course in Computing. 3	Visual or Performing Arts (core) 3
MATH 1013 Financial Quant Lit 3	MATH 1703 Elem Stats (Major) 3
Total Hours 15	Total Hours 15

SECOND YEAR

First Semester	Second Semester
GOV 2013 U.S. Government 3	GOV 2023 Texas Government 3
Natural Science + Lab (core)..... 4	Natural Science + Lab (core)..... 4
Humanities (core)..... 3	CSCI 3013 App Comp Thinking 3
MATH 2014 Calculus I (Major) 4	Multicultural Women's Studies (core)..... 3
Social/Behavioral Science (core)..... 3	MATH 2024 Calculus II (Major)..... 4
Total Hours 17	Total Hours 17

THIRD YEAR

First Semester	Second Semester
MATH 3104 Calculus III (Major)..... 4	MATH 3053 Abstract Algebra (Major) 3
MATH Elective (Major)..... 3	MATH Elective (Major)..... 3
Minor..... 3	Minor (upper level) 3
Minor..... 3	Elective 3
Elective 3	Elective (upper level) 3
Total Hours 16	Total Hours 15

FOURTH YEAR

First Semester	Second Semester
MATH 3063 Linear Algebra (Major) 3	MATH Elective-Upper Level (Major)..... 3
MATH 4013 Prob & Stats (Major) 3	MATH Elective – Upper Level (Major) 3
Minor..... 3	Minor (Upper Level) 3
Minor (upper level) 3	Elective (Upper Level) 4
Total Hours 12	Total Hours 13

All students must complete six credit hours in approved Global Perspectives courses (graduation requirement).

Specializations

Descriptions of specialized programs for mathematics students interested in engineering studies, computational math, statistics, or teacher certification can be found on our website.

Bachelor of Arts in Mathematics (120 hours)

The requirements for this degree differ from those for the Bachelor of Science in Mathematics in the following ways:

1. the degree requires 30 hours of mathematics courses (15 advanced)
2. the student must take 6 hours (excluding lab hours) in one foreign language

Mathematics Minor

MATH 2014. Calculus I

14 additional hours of mathematics courses, at least six of which must be advanced. A departmental advisor must approve the minor program.

Bachelor of Science in Computer Science

Required Computer Science Courses

CSCI 1423 (+1421)	Programming Fundamentals I (with lab)
CSCI 2443	Computer Organization and Machine Language
CSCI 2493	Programming Fundamentals II
CSCI 3013	Applied Computational Thinking
CSCI 3053	Data Structures
CSCI 3443 (+3441)	Digital Logic and Computer Architecture (with lab)
CSCI 4313	Networking and Data Communications

Computer Science Electives

12 additional computer science hours, 6 of which must be advanced, to be selected with a computer science advisor.

Other Requirements

MATH 2014	Calculus I
MATH 3013	Discrete Mathematics
MATH 4013	Probability and Statistics

Core Curriculum completion

Elective hours as needed to complete a minimum of 120 hours of college level coursework.

B.S. in Computer Science (Sample 120 hour Academic Plan)**FIRST YEAR**

First Semester		Second Semester	
ENG 1013 Comp.I.....	3	ENG 1023 Comp II	3
MATH 1013 Financial Quant Lit.....	3	MATH 1313 Elem Anal II (Minor)	3
CSCI 1403 A 1st Course in Computing ..	3	CSCI 2493 Prog Fund II (Major)	3
CSCI 1421/1423 Prog Fund I (Major)...	4	SPCH 1013 Oral Communication	3
		HIST 1013 U.S. History	3
Total Hours	13	Total Hours	15

SECOND YEAR

First Semester		Second Semester	
Natural Science + Lab (Core).....	4	Natural Science+ Lab (Core).....	4
CSCI 2443 Comp Org & Mach Lang	3	CSCI 3053 Data Structures (Major)	3
(Major)	3	Multicultural Women's Studies.....	3
HIST 1023 U.S. History.....	3	MATH 2014 Calculus I (Minor)	4
MATH 1313 Elem Anal IT (Minor).....	3	Elective (Upper Level)	1
Social/Behavioral Science (Core).....	3		
Total Hours	16	Total Hours	15

THIRD YEAR

First Semester		Second Semester	
GOV 2013 U.S. Government	3	GOV 2023 Texas Government	3
CSCI 3441 & 3443 Digital Logic (Major) 3		MATH 3013 Discrete Math (Minor)	3
CSCI.3013 Appl Comp. Thinking (Major) 3		CSCI Elective (Major).....	3
Elective	3	Visual or Performing Art (Core).....	3
Elective (Upper Level).....	3	Elective	3
Total Hours	15	Total Hours	15

FOURTH YEAR

First Semester		Second Semester	
CSCI 4313 Network & Data Comm	3	CSCI Elective - Upper Level (Major)	4
(Major)		CSCI Elective - Upper Level (Major).....	3
CSCI Elective (Major).....	3	Elective	3
MATH 4013 Prob & Stats (Minor)	3	Elective	3
Humanities (core).....	3	Elective	3
Elective (Upper Level).....	3		
Total Hours	15	Total Hours	16

All students must complete six credit hours in approved Global Perspectives courses (graduation requirement).

Computer Science Minor

Students interested in a minor in Computer Science may choose from Computer Programming/Software Engineering, Computer Applications or Information Systems. A Digital Media minor is also available. For more detailed information regarding these minors, please refer to the department web page. A departmental advisor must approve the minor program.

Specializations

Descriptions of specialized programs for computer science students interested in engineering studies, programming/software engineering, information technology, or teacher certification can be found on our web site at www.twu.edu/math-computer-science/.

Computer Science Undergraduate Courses

***CSCI 1403. A First Course in Computing.** (COSC 1300) Encompasses the various aspects of “computer literacy” including computer systems - their structure, elementary programming, languages, and applications within various disciplines; the many facets of the Internet and the World Wide Web; and consideration of what has led to the current state of technology and implications for the future. Cannot be counted toward a major in computer science. Three lecture hours a week. Credit: Three hours.

CSCI 1411. Programming For Windows – Laboratory. (BCIS 1316) To be taken concurrently with CSCI 1413. Two laboratory hours a week. Credit: One hour.

CSCI 1413. Programming For Windows. (BCIS 1416) An introduction to the use of a visual language for Windows programming, the design strategy and creation of applications. Focus is on solving commonly encountered problems. Introduces the Integrated Development Environment, interfaces, controls, forms debugging, database access, object-oriented programming techniques, workspace documentation, fundamentals of coding, manipulating data and structures, validating entries, event procedures, running and testing projects. Prerequisites: CSCI 1403 or CSCI 2433 or equivalent. Concurrent course: CSCI 1411. Three lecture hours a week. Credit: Three hours.

CSCI 1421. Programming Fundamentals I – Laboratory. (COSC 1336) To be taken concurrently with CSCI 1423. Programming Fundamentals I. Two laboratory hours a week. Credit: One hour.

CSCI 1423. Programming Fundamentals I. (COSC 1436) Introduction to the fundamental concepts of structured and Object Oriented programming. Topics include software development methodology, data types, control structures, functions, arrays, files, classes, program testing and debugging techniques. Concurrent course: CSCI 1421. Prerequisite: CSCI 1411/1413 or equivalents. Three lecture hours a week. Credit: Three hours.

***CSCI 2433. Microcomputer Applications.** (BCIS 1301) (COSC 1301) Introduction to operating systems and software tools of a microcomputer. Learning how to use various software packages, such as: word processing, presentation software, spread sheets, graphics and databases. Three lecture hours a week. Credit: Three hours.

*Satisfies computer literacy (core) requirement.

CSCI 2443. Computer Organization and Machine Language. (COSC 1319) (COSC2325) This course provides the basic theory of computer organization. It reviews the mechanism of the machine cycle, digital representation of data and instructions. Also included is an introduction to assembly (machine) language, assemblers, loaders, macros, subroutines, and linking. Prerequisite: CSCI 1423. Three lecture hours a week. Credit: Three hours.

CSCI 2493. Programming Fundamentals II. (COSC 1337) Advanced topics include object oriented problem solving, software design, methodology and development; intro to basic principles of algorithm analysis and design, searching and sorting techniques, recursion. GUI design and development, data structures and software engineering. Prerequisites: CSCI 1421/1423 or equivalent. Three lecture hours a week. Credit: Three hours.

***CSCI 3002. Advanced Computing Technology.** Advanced applications for students preparing to enter careers in training or education that utilize computer-based technologies. Includes integration of software packages in a project-oriented, real-world environment. Introduction to Web-based client/server systems, databases, distributed computing, application development with object-based programming, mark-up languages such as HTML, and scripting languages. Creation of graphical, animated, multi-media-based, audio-intensive, database-intensive, network-based products. Prerequisite: CSCI 1403, CSCI 2433, or equivalent. One lecture and two lab hours a week. Credit: Two hours.

CSCI 3013. Applied Computational Thinking. Application and programming of software to engage computational thinking approaches to scientific processes: understanding what can be computed, and its use to solve, model, analyze and visualize problems scientifically. Explore a broad array of programming and software tools to create and modify models. Prerequisite: CSCI 1403 or equivalent, MATH 2014. Three lecture hours a week. Credit: Three hours.

CSCI 3053. Data Structures. (COSC 2315) Introduction to the representation of information; data objects, classes, and structures; string processing; searching and sorting; stacks and queues; hash coding; lists, trees, and manipulation of data structures. Prerequisite: 6 hours in one high level programming language. Three lecture hours a week. Credit: Three hours.

CSCI 3103. Applied Computer Graphics. Evaluation and use of 2D and 3D graphics software for presentations and visualization; study of computer animation and programming techniques for use in Web-based applications and in computer games; analysis of file structures used for computer graphics images and methods of acquiring and manipulating graphic images. Prerequisite: CSCI 1413, CSCI 2433 or equivalent. Three lecture hours a week. Credit: Three hours.

CSCI 3113. Fundamentals of SAS Programming. SAS and SAS programming. Focuses on the use of Base SAS and internal procedures to generate queries and reports, to access local data sources, to create user-defined data formats, to generate descriptive statistics and tabular reports. Reviews elementary programming techniques to solve problems related to data analysis, list reports, t-test, ANOVA, regression analysis, data clustering, and data mining. Prerequisites: MATH 1713 or equivalent. Three lecture hours a week. Credit: 3 hours.

*Satisfies computer literacy (core) requirement.

CSCI 3413. Software Engineering. Modeling and simulation of systems in organizations, systems flow charting, data dictionaries and software engineering concepts. Prerequisite: CSCI 3053. Three lecture hours a week. Credit: Three hours.

CSCI 3423. Data Base Management. Organization and retrieval techniques for computer based information systems, techniques of design, implementation and utilization of data base management systems. Prerequisites: CSCI 1413, 2433 or permission of instructor. Three lecture hours a week. Credit: Three hours.

CSCI 3441 Digital Logic and Computer Architecture – Laboratory. To be taken concurrently with CSCI 3443 Digital Logic and Computer Architecture. Two laboratory hours a week. Credit: One hour.

CSCI 3443. Digital Logic and Computer Architecture. An introduction to the concepts of digital logic, number systems and codes. Topics include: digital circuit design, combinatorial logic design, decoder, multiplexers, adders, sequential design of flip-flops, latches, counters, and shift registers. Elements of CPU arithmetic, architecture and instruction sets provide the basic concepts associated with computer architecture. Concurrent Course: CSCI 3441. Prerequisite CSCI 2443. Three lecture hours a week. Credit: Three hours.

CSCI 3453. Advanced Computer Architecture. This course provides the basic theory of computer organization and architecture. Topics include: history of computer hardware, system buses, internal memory, PLA, external memory, storage, operating systems, ALU design, addressing modes, register organization, RISC, parallel processors, and micro-programmable devices. Also included is an introduction to vector processing systems. Prerequisite: 12 hours of computer science courses including CSCI 2443. Three lecture hours a week. Credit: Three hours.

CSCI 3493. Systems Programming. Introduction to the design of systems software. Current systems software technology, language translators, linkers and loaders, macro techniques and file systems. Prerequisites: CSCI 2443, 3053. Three lecture hours a week. Credit: Three hours.

CSCI 3613. Introduction to Algorithms. Techniques for design of efficient algorithms and their performance. Design methodologies include sorting, graph algorithms, dynamic programming, searching, pattern matching, set manipulations, matrices and trees. Prerequisite: CSCI 3053 or consent of the instructor. Three lecture hours a week. Credit: Three hours.

CSCI 3803. Web Site Development. Introduction to the design and development of Web sites with markup languages (XHTML [eXtensible HyperText Markup Language]), Cascading Style Sheet (CSS) language and scripting languages; creation of Web sites with simple text editor and Web authoring software; site architecture, screen and page layout, site navigation, and color templates. Prerequisites: CSCI 2433 or equivalent. Credit: Three hours.

CSCI 4303. Advanced Modeling and Visualization. Explores techniques and algorithms used in the modeling and visualization process. Evaluates the effectiveness of advanced features of spreadsheet, graphics, and statistics packages in processing large volumes of data. VRML and other modeling languages are introduced. Prerequisite: CSCI 1413, CSCI 2433 or equivalent and advanced standing. Three lecture hours a week. Credit: Three hours.

CSCI 4311. Seminar in Computer Science. Capstone course. Compilation of a professional portfolio, completion of a multifaceted project on a current issue in or application of computer science, development of skills in defining problems and opportunities, and generation of strategies and solutions for those problems. Requires a written component, an oral presentation of project and an exit exam. Prerequisite: 24 hours of course work in computer science or permission of the instructor. One seminar hour a week. Credit: One hour.

CSCI 4313. Networking and Data Communication. Introduction to hardware, software design and protocols used in networking and data communication. Depending on emphasis, topics will be selected from: architectures, OSI Reference Models, transmission media, software design, LANs, performance modeling and other related subjects. Prerequisite: 15 hours computer science. Three lecture hours a week. Credit: Three hours.

CSCI 4523. Advanced Data Design. Advanced relational data base design and implementation, including reporting, picture objects, macros and programming. Emphasis on logical organization of data and table design. Discussion of advanced issues important in the development and design in client server, distributed, object oriented data bases and security. Prerequisite: CSCI 3423. Three lecture hours a week. Credit: Three hours.

CSCI 4533. Trends and Issues in Computer Science. Focuses on contemporary issues in computer science by addressing the current designs in both software and hardware. Topics of specialized nature such as parallel algorithms, parallel architecture, computer performance, network security, social impact, history and the like. May be repeated for credit. Three lecture hours a week. Credit: Three hours.

CSCI 4803. Programming for the Web. Creation and development of Web sites with dynamic content, including multimedia, forms, adaptive page layout, navigation and content; application of scripting and programming languages, such as JavaScript, XML and Perl, to generate dynamic content; application of structured and Object Oriented programming principles, design, implementation, testing and evaluation techniques. Prerequisites: CSCI 3803 or equivalent. Credit: Three hours.

CSCI 4823. Principles of Data Mining. Methodologies, technologies, mathematics and algorithms of data mining; nontrivial extraction of implicit, previously unknown, and potentially useful information from data; analysis of algorithms, which merge knowledge from statistics, machine learning database, and computer science and application to real data sets. Six hours of programming and MATH 1703. Credit: Three hours.

CSCI 4913. Independent Study. Individual study in computer science. Credit: Three hours.

CSCI 4951, 4953, 4956. Cooperative Education.

Computer Science Graduate Courses

Please refer to the Graduate Catalog or the department website for information about graduate courses.

Mathematics Undergraduate Courses

***MATH 1013. Financial and Quantitative Literacy.** Develops analytic reasoning and the ability to solve quantitative problems. Topics covered chosen from logic and problem solving, quantitative information, financial management, probability and statistics, and other applications of mathematics. Prerequisite: Satisfactory score on Mathematics Placement Test. Three lecture hours a week. Credit: Three hours.

****MATH 1023. Introduction to Mathematics.** (MATH 1333) Topics from algebra, geometry, and mathematical modeling. Prerequisite: High School Algebra and Geometry. Three lecture hours a week. Credit: Three hours.

MATH 1113. Fundamentals of Algebra. May not be used to satisfy any mathematics requirement and hours earned will not count toward any graduation requirement. May not be used for credit on any degree. Basic algebraic operations, linear equations and inequalities, polynomials, rational expressions, factoring, exponents, and radicals, quadratic equations. Prerequisite: Consent of department. Three lecture hours a week. Credit: Three hours.

MATH 1123. Transition to College Mathematics. May not be used to satisfy any mathematics requirement and hours earned will not count toward any graduation requirement. May not be used for credit on any degree. Review or introduce operations involving rational numbers and decimals, exponents, linear equations in one and two variables, graphing, polynomial arithmetic and factoring, quadratic equations, linear inequalities in one and two variables, rational expressions, measurement geometry. Prerequisite: Consent of Department. Three lecture hours a week. Credit: Three hours.

MATH 1301. Elementary Analysis I - Laboratory. Application of principles taught in MATH 1303. May be required as co-requisite with MATH 1303 based on placement test scores. Three laboratory hours per week. Credit: One hour.

****MATH 1303. Elementary Analysis I.** (MATH 1314) College algebra with some attention to rigor; elements of set theory. Prerequisite: High School Algebra and Geometry and appropriate score on placement exam. Three lecture hours a week. Credit: Three hours.

MATH 1311. Elementary Analysis II - Laboratory. Application of principles taught in MATH 1313. May be required as co-requisite with MATH 1313 based on placement test scores. Three laboratory hours per week. Credit: One hour.

***MATH 1313. Elementary Analysis II.** (MATH 1316) Algebraic, exponential, logarithmic and trigonometric functions. Prerequisite: MATH 1303 or equivalent. Three lecture hours a week. Credit: Three hours.

*Satisfies area B of core institutional option.

**Satisfies core mathematics requirements.

MATH 1323. Elementary Analysis III. Develops an understanding of topics needed before calculus. Topics include an introduction to vectors, trigonometric form of a complex number, matrices, sequences and series, probability, conics, parametric equations and polar equations. Three lecture hours a week. Credit: Three hours

MATH 1523. Mathematics Concepts I. Selected topics from Real Number Systems; fundamental operations of mathematics; and algebraic thinking. Can only be counted as satisfying the mathematics requirement for Generalist (EC-Grade 4 or EC-Grade 6) and Bilingual Generalist (EC-Grade 4 or EC-Grade 6). Prerequisite: High School Algebra and Geometry. Three lecture hours a week. Credit: Three hours.

MATH 1533. Mathematics Concepts II. Selected topics from geometry, measurement, probability and statistics. Can only be counted as satisfying the mathematics requirement for Generalist (EC-Grade 4 or EC-Grade 6) and Bilingual Generalist (EC-Grade 4 or EC-Grade 6). Prerequisite: High School Algebra and Geometry. Three lecture hours a week. Credit: Three hours.

MATH 1543. Mathematics Concepts III. Selected topics for 5th and 6th grade from Real Number Systems; fundamental operations of mathematics; algebraic thinking; geometry; measurement; probability; and statistics. Can only be counted as satisfying the mathematics requirement for Generalist (EC-6) and Bilingual Generalist (EC-6). Prerequisite: High School Algebra and Geometry. Three lecture hours a week. Credit: Three hours.

MATH 1553. Mathematics Concepts IV. Strategies for teaching 7th and 8th grade mathematics. Topics selected from real number systems; fundamental operations of mathematics; algebraic thinking; geometry; measurement; probability; and statistics. Can only be counted as satisfying the mathematics requirement for students seeking 4-8 certification.

***MATH 1703. Elementary Statistics I.** (MATH 1342) Frequency distributions; graphical representation, measures of central tendency and dispersion; normal curve; hypothesis testing/confidence intervals. Three lecture hours a week. Credit: Three hours.

***MATH 1713. Elementary Statistics II.** Hypothesis testing, confidence intervals, nonparametric statistics, regression and correlation, time series, experimental design. Prerequisite: MATH 1703. Three lecture hours a week. Credit: Three hours.

***MATH 2014. Calculus I.** (MATH 2413) Analytic geometry; limits and continuity; differentiation of algebraic and transcendental functions; antiderivatives; definite integrals. Prerequisite: MATH 1303 and 1313 or equivalent. Four lecture hours a week. Credit: Four hours.

MATH 2024. Calculus II. (MATH 2414) Differential equations; formal integration; applications of integration; improper integrals; infinite series; parametric functions. Prerequisite: MATH 2014. Four lecture hours a week. Credit: Four hours.

*Satisfies core mathematics requirement.

****MATH 2053. Women and Minorities in Engineering, Mathematics, and Science.** Examines reasons why women and minorities are traditionally underrepresented in the areas of engineering, mathematics, and science and includes strategies for increasing their representation. Introduction to problem-solving strategies, useful for any discipline, which emphasize solutions incorporating both current and emerging technologies. Three lecture hours a week. Credit: Three hours.

MATH 2203. Business Analysis I. (MATH 1324) Algebraic functions, logarithmic functions, exponential functions, matrices and linear systems and linear programming. Prerequisite: High School Algebra and Geometry and appropriate score on placement exam. Three lecture hours a week. Credit: Three hours.

MATH 2213. Business Analysis II. Differential and integral calculus of algebraic, logarithmic and exponential functions and applications of each to business. Prerequisite: MATH 2203. Three lecture hours a week. Credit: Three hours.

MATH 3003. A Survey of Geometry. Historical origins and elements of modern geometry. A preview of elementary transformations and dissection theory, projective geometry and Euclidean and non-Euclidean geometry. Prerequisite: MATH 2014. Three lecture hours a week. Credit: Three hours.

MATH 3013. Discrete Mathematics. Sets, functions, Boolean algebra, logic, number theory and representations, graph theory, algorithms, and computability. Prerequisite: MATH 2014 or permission of instructor. Three lecture hours a week. Credit: Three hours.

MATH 3043. Symbolic Logic. Truth tables, symbolization of statements and relations; formal deductive proofs of validity; rules of conditional and indirect proofs; deductive systems. Prerequisite: MATH 2014 or permission of instructor. Three lecture hours a week. Credit: Three hours.

MATH 3053. Abstract Algebra. Introduction to sets, relations, mappings, rings, integral domains, fields, groups. Prerequisite: MATH 2014 or permission of the instructor. Three lecture hours a week. Credit: Three hours.

MATH 3063. Linear Algebra. (MATH 2318) Linear equations and matrices; vector spaces; linear mappings; determinants. Prerequisite: MATH 2014 or permission of the instructor. Three lecture hours a week. Credit: Three hours.

MATH 3073. Matrix Methods. Matrix operations, determinants, inverse of a matrix, solution of linear systems, eigenvalues and eigenvectors, matrix calculus. Prerequisite: MATH 2014 or permission of the instructor. Three lecture hours a week. Credit: Three hours.

MATH 3083. Elementary Number Theory. Diophantine equations; congruences; divisibility properties of integers; prime numbers and factorization theorems; multiplicative functions. Prerequisite: MATH 2014 or permission of the instructor. Three lecture hours a week. Credit: Three hours.

MATH 3104. Calculus III. (MATH 2415) Solid analytic geometry; vectors in space; functions of several variables; partial derivatives; multiple integrals; applications. Prerequisite: MATH 2024. Four lecture hours a week. Credit: Four hours.

****Satisfies core multicultural/women's studies requirements.**

MATH 3123. Differential Equations. (MATH 2320) Solutions of differential equations of the first order and applications; linear differential equations with applications; solution by power series and numerical methods; systems of differential equations; introduction to partial differential equations. Prerequisite: MATH 2024. Three lecture hours a week. Credit: Three hours.

MATH 4003. Mathematical Concepts in the Educational Setting. Problem Solving, reasoning, sets, geometry, algebra, trigonometry, matrices, statistics and probability, sequences and series, graph theory, integration, differentiation, vectors. Three lecture hours a week. Credit: Three hours.

MATH 4013. Probability and Statistics. The theory of discrete and continuous random variables and their distributions. Topics include expected values, binomial and normal distributions, the central limit theorem, confidence intervals, and hypothesis testing. Prerequisite: Math 2014. Three lecture hours a week. Credit: Three hours.

MATH 4103. Problem Solving in the Elementary Grades. For students desiring professional development in strategies for teaching problem solving techniques in the elementary classroom. Topics include number concepts, operations, computation, patterns, relations, functions, geometry, measurement, probability, and statistics. Three lecture hours a week. Credit: Three hours.

MATH 4203. Problem Solving in the Secondary Grades. Strategies of problem solving; methods for teaching and applying different strategies; assessment of problem solving skills. Three lecture hours a week. Credit: Three hours.

MATH 4303. Algebra in the Mathematics Classroom. Patterns, relationships, ordered pairs, prime and composite numbers, orders of operations, exponents, number sentences, ratios, proportions, percents, modeling, formulas, equations, graphs, functions, systems of equations. Three lecture hours a week. Credit: Three hours.

MATH 4311. Seminar in Mathematics. Capstone course. Compilation of a professional portfolio, completion of a multifaceted project on a current issue in or application of mathematics, development of skills in defining problems and opportunities, and generation of strategies and solutions for those problems. Requires a written component, an oral presentation of project and an exit exam. Prerequisite: 24 hours of course work in mathematics or permission of the instructor. One seminar hour a week. Credit: One hour.

MATH 4313. Geometry in the Mathematics Classroom. Topics in geometry with an emphasis in problem solving, shapes, angles, polygons, circles, Pythagorean Theorem, symmetry, transformations, measurement area, and volume with an emphasis on technology. Three lecture hours a week. Credit: Three hours.

MATH 4903. Selected Topics. Variable content in mathematics. Three lecture hours a week. Credit: Three hours.

MATH 4911. Independent Study. Individual study in mathematics. Credit: One hour.

MATH 4913. Independent Study. Individual study in mathematics. Credit: Three hours.

MATH 4953, 4956. Cooperative Education.

Mathematics Graduate Courses

Please refer to the Graduate Catalog or the department website for information about our graduate courses.

Department of Psychology and Philosophy

Chair: Daniel C. Miller, Professor

Location: CFO 702

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www.twu.edu/psychology-philosophy

Faculty: Professors D. Miller, L. Rubin, S. Stabb; Associate Professors K. DeOrnellas, J. Harris, C. Hart, D. Maricle, D. Mollen, S. Scott; Assistant Professors E. Asbury, K. Booker, J. Fitch, K. Foster, B. Harding, A. Mitchell, J. Strain.

The Department of Psychology and Philosophy offers programs leading to the Bachelor of Science, the Master of Arts, the Specialist in School Psychology, and the Doctor of Philosophy degrees. The department also offers minors in psychology, philosophy, and a split minor between the two.

Degree programs for majors are designed to prepare the student for career pursuits and/or advanced degree work in health related fields and psychology. Although the undergraduate major is broadly-based, the program offers sufficient depth to afford students a strong foundation in psychology, whether it be for the purpose of entering the job market in the helping professions or for doing advanced coursework at the graduate level. Graduates with a bachelor's degree often work in human resources, case management, human services and education fields. Students who are interested in obtaining a graduate degree in psychology often pursue careers in the health-related fields (e.g., occupational or physical therapy, medicine, and nursing) or in other specialized areas of psychology (e.g., clinical, counseling, experimental, forensic, industrial/organizational, and school psychology).

Please visit www.twu.edu/psychology-philosophy for more departmental information.

The General Track in Psychology is designed to prepare students for post-baccalaureate career pursuits in applied mental health settings and other related fields as well as graduate degree programs in Psychology. The Accelerated OT Track, the PT Track, and the Accelerated PT Track are designed to prepare students for advanced degree work in allied health fields such as Occupational Therapy and Physical Therapy.

Admission Requirements

Please see Admission section of the catalog. The same standards for admission to the university apply to the Department of Psychology and Philosophy. Additional admission requirements are (1) completion of 45 hours with a 2.5 cumulative GPA, (2) completion of Introduction to General Psychology (PSY 1013), Developmental Psychology (PSY 1603), Professional Development in Psychology (PSY 2013), and Abnormal Psychology (PSY 2513) with a C or better, (3) 2.5 Psychology GPA, (4) completion of an appropriate math course (1303 or higher), and (5) completion of the Psychology Major Application Process (see www.twu.edu/psychology-philosophy/).

Undergraduate Degree

B.S. in Psychology

This degree program requires the completion of 120 hours.

Core Curriculum requirements include a minimum of 42 semester credit hours and are listed in the Academic Programs section of this catalog.

Special Requirements

Only psychology and philosophy courses in which a grade of C or better is received may be counted toward a departmental major and/or minor.

Bachelor of Science (BS) in Psychology (General Track, 120 hours)

FIRST YEAR

First Semester	Second Semester
PSY 1013 Intro to General Psy (core)..... 3	PSY 1603 Developmental Psychology..... 3
Natural Science w/Lab (core).....3-4	Natural Science w/Lab (core)3-4
ENG 1013 Composition I 3	PSY 2013 Professional Dev in Psy 3
HIST 1013 U.S. History 1492-1865 3	ENG 1023 Composition II..... 3
Math 1303 or higher (MATH 1703 rec). 3	Quantitative Literacy 3
Total Hours 15-16	Total Hours 15-16

SECOND YEAR

First Semester	Second Semester
PHIL 2033 Logic & Critical Thinking (core) 3	PSY 2303 Applied Statistics 3
GOV 2013 U.S. Government 3	GOV 2023 Texas Government 3
Natural Science w/Lab*..... 3-4	Natural Science w/Lab*.....3-4
HIST 1023 U.S. History 1865-present... 3	Computer Literacy (core)..... 3
PSY 2513 Abnormal Psychology..... 3	PSY 3733 Multicultural Women's 3
Total Hours 15-16	Studies - Psychology of Women (core) Total Hours 15-16

*Must fulfill core Natural Science w/lab requirement

THIRD YEAR

First Semester		Second Semester	
PSY 3354 Exp Psy	4	PSY Elective	3
Visual/Performing Arts (core).....	3	Minor or Electives	9
Oral Communication (core).....	3	PSY 3163/3161 Behavior Therapy w/Lab	
PSY Elective	3	OR PSY 4103/4101 Cognitive Psy	4
Minor or Elective (2 hours).....	2	w/Lab	
Total Hours	14	Total Hours	16

FOURTH YEAR

First Semester		Second Semester	
PSY Electives (advanced).....	6	PHIL 3053 Ethics, OR PHIL 3073 Bioeth,	
Minor or Electives.....	9	OR PHIL 3083 Ethics & Feminism	3
		PSY Electives (advanced).....	6
		Minor or Electives	6
Total Hours	15	Total Hours	15

All students must complete six credit hours in approved Global Perspectives courses, either in the core electives or major courses (graduation requirement).

Psychology Minor

The minor in Psychology is intended to provide students majoring in other academic specialty areas with a sub-concentration in behavioral sciences. The minor in psychology for the baccalaureate degree requires 18 semester hours of study in psychology. Six hours of this minor requirement are met through completion of two required courses: Introduction to General Psychology (PSY 1013) and Developmental Psychology (PSY 1603). Nine hours must be elective junior and/or senior courses in psychology.

The split minor in Psychology and Philosophy requires 18 semester hours. Six hours of this minor requirements are met through completion of two required courses: Introduction to General Psychology (PSY 1013) and Developmental Psychology (PSY 1603). Students must complete six hours of advanced psychology courses and six hours of advanced philosophy courses.

Psychology Undergraduate Courses

***PSY 1013. Introduction to General Psychology.** (PSYC 2301) Survey of traditional areas of psychology; psychobiology, perception, learning, cognition, development, social behavior, abnormal psychology, and psychotherapy. Three lecture hours a week. Credit: Three hours.

***PSY 1603. Developmental Psychology.** (PSYC 2312) Development of personality and learning capacities across the life-span from birth to death; emphasis on interactions of heredity, environment, and maturational processes. Prerequisite: PSY 1013. Three lecture hours a week. Credit: Three hours.

*Satisfies core requirement for social/behavioral sciences.

PSY 2013. Professional Development in Psychology. Focuses on student development for academic and career growth, exploration and preparation for career opportunities and graduate school, writing and research skills. Topics covered: goal development, APA writing style, subfields in psychology, portfolios and resumes. Should be taken the semester following PSY 1013. Prerequisite: PSY 1013. Three lecture hours a week. Credit: Three hours.

PSY 2023. Social Psychology. (PSYC 2319) Survey of and research on attitudes, attribution, the self, affiliation, aggression, gender, cross-cultural issues, social cognition, altruism, person perception, and group structure. Prerequisite: PSY 1013. Three lecture hours a week. Credit: Three hours.

PSY 2303. Applied Statistics. Basic statistical methods: distributions, central tendency, variability, correlation, sampling techniques, and hypothesis testing. Prerequisite: PSY 1013 and 3 hours of math (College Algebra or higher). Three lecture hours a week. Credit: Three hours.

PSY 2513. Abnormal Psychology. A study of psychopathology covering the major classification systems including mood disorders and psychotic behavior, defenses, anxiety, methods of psychotherapy, mental health principles; examination of abnormality in relationship to normal behavior. Prerequisite: PSY 1013. Three lecture hours a week. Credit: Three hours.

PSY 2633. Adolescent Psychology. (PSYC 2307) Developmental, behavioral, and emotional aspects of adolescence; emphasis on current research, theories, issues, and problems. Prerequisites: PSY 1013 and PSY 1603. Three lecture hours a week. Credit: Three hours.

PSY 3161. Behavior Therapy Laboratory. Laboratory and field experiences designed to illustrate assessment and treatment procedures in behavior therapy. Corequisite: PSY 3163. Two laboratory hours a week. Credit: One hour.

PSY 3163. Introduction to Behavior Therapy. Techniques of behavior therapy designed to acquaint the student with treatments and research applications in normal and clinical populations. Emphasis on mastery of techniques, designing treatment plans and evaluation. Corequisite: PSY 3161. Prerequisites: PSY 1013 and PSY 2513. Three lecture hours a week. Credit: Three hours.

PSY 3354. Experimental Psychology. Strategies of research including design of psychological experiments, data collection, data analysis, and report writing. Prerequisites: PSY 1013 and PSY 2303. Three lecture hours and two laboratory hours a week. Credit: Four hours.

****PSY 3733. Psychology of Women.** Issues in the development and behavior of women, including theoretical perspectives, male-female differences, achievement, motivation, stereotype, androgyny, sexuality, career choices, mental health and disorders, psychotherapy, life-span, and special sub-groups. Prerequisites: PSY 1013 and junior standing. Three lecture hours a week. Credit: Three hours.

***PSY 3933. Positive Psychology.** Explores factors related to enhancement of overall mental health and well-being. Focus on strengths-based and resiliency approach to psychology. Prerequisites: PSY 1013, junior or senior standing. Three lecture hours a week. Credit: Three hours.

*Subject to approval Fall 2011.

**Satisfies core requirement for multicultural women's studies and social/behavioral sciences.

PSY 3943. Psychological Tests and Measurements. Theory and practice of psychological assessment. Construction, validation and use of psychological tests in measuring psychological variables. Prerequisites: Junior standing and completion of PSY 1013, PSY 1603 and PSY 2303. Two lecture hours and two laboratory hours a week. Credit: Three hours.

***PSY 4013. Health Psychology.** Examines psychosocial factors in health and illness with emphasis on relevant research and health care delivery. Prerequisites: PSY 1013, PSY 2513, and senior standing. Three lecture hours a week. Credit: Three hours.

***PSY 4023. Forensic Psychology.** Examines psychological theories and research that address legal issues and the role psychologists play in the criminal justice system. Prerequisites: PSY 1013, PSY 2513, and senior standing. Three lecture hours a week. Credit: Three hours.

PSY 4101. Cognitive Psychology Laboratory. Laboratory and field experiences designed to illustrate concepts of cognition. Corequisite: PSY 4103. Two laboratory hours a week. Credit: One hour.

PSY 4103. Cognitive Psychology. Survey of research in human cognition; emphasis on cognitive processes of perception, attention, memory, language, problem solving, concept formation, and decision making. Corequisite: PSY 4101. Prerequisites: PSY 3354 and senior standing. Three lecture hours a week. Credit: Three hours.

PSY 4113. History and Systems of Psychology. Historical view of the field from earliest scientific and philosophical antecedents through the classical schools to present views. Prerequisites: PSY 1013 and junior standing. Three lecture hours a week. Credit: Three hours.

PSY 4133. Physiological Psychology. Fundamentals of neuroanatomy and neurophysiology; psychopharmacology; genetic, neurological, and endocrine bases of sensation, motivation, sleep and arousal, learning, memory and psychopathology. Prerequisites: Senior standing and PSY 1013. Three lecture hours a week. Credit: Three hours.

PSY 4153. Introduction to Counseling. Basic principles, history, theories, techniques, and experiences of counseling and psychotherapy. Experiential activities to help students develop basic helping skills. Prerequisites: PSY 1013, PSY 1603, and PSY 2513. Three lecture hours a week. Credit: Three hours.

PSY 4173. Foundations of Family Psychology. A survey of psychological bases for understanding and evaluating family structure and process family within the diverse American culture. Special attention to the study of patterns of family development across the life cycle. Research bases for clinical practice will be studied and evaluated. Prerequisites: PSY 1013, PSY 1603, and PSY 2513. Three lecture hours a week. Credit: Three hours.

*****PSY 4183. Global Perspectives in Psychology.** Intercultural/international perspectives in psychology; psychology's relevance to the understanding of global problems and how psychology itself is affected by global events/cultures. Prereq-

*Subject to approval Fall 2011.

***Satisfies global perspectives requirements for graduation.

quisites: PSY 1013, PSY 1603, and junior standing. Three lecture hours a week. Credit: Three hours.

PSY 4763. Early Field Experiences in Psychology. Supervised experiences in applied settings. The settings will be psychologically oriented work environment with diverse client populations. Both public and private agencies may be used. Prerequisites: PSY 1013, PSY 2513, junior standing, and permission of supervising faculty. One lecture hour and four laboratory hours a week. Credit: Three hours.

PSY 4913. Independent Study. Prerequisite: Permission of supervising faculty. Credit: Three hours.

PSY 4953. Cooperative Education. Cooperative work-study arrangement between business, industry, or selected agencies and the Psychology program. Work environment consistent with student's major and career goals. Preplanning and evaluation will involve 10 percent of the laboratory hours per week. Prerequisites: 12 hours in psychology, 3.0 cumulative GPA, 3.0 psychology GPA, and permission of supervising faculty. Credit: Three hours.

PSY 4961. Research Team. participation in research activities with a supervising faculty member. The student is expected to pursue areas in conjunction with the faculty member's interests. Prerequisites: Permission of supervising faculty. One lecture and one laboratory hour a week. Credit: One hour.

Graduate Courses

Please refer to the Graduate Catalog or the department website for information about our graduate courses.

Philosophy

Philosophy may be selected as a minor field of study for the Bachelor of Science degree. For many students philosophy may be the basis for a liberal education or an area of intensive study before undertaking graduate work. A consideration of and concentration in philosophy is not limited, therefore, to persons who are professionally interested in the field. The minor consists of eighteen (18) hours, with six (6) hours required in junior and/or senior-level courses. None of the Philosophy Courses have prerequisites.

Philosophy Undergraduate Courses

***PHIL 1023. Introduction to Philosophy.** (PHIL 1301) Survey of basic philosophical issues: methodology, metaphysics, axiology, including epistemology, cosmology, ontology, ethics, and aesthetics; selected readings from great philosophers, both eastern and western. Three lecture hours a week. Credit: Three hours.

*Satisfies core requirement for humanities.

***PHIL 2033. Logic and Critical Thinking.** (PHIL 2303) A consideration of critical thought from the perspective of induction and deduction, formal and informal fallacies, structure of syllogism, symbolic logic, and principles of scientific method. Three lecture hours a week. Credit: Three hours.

PHIL 2043. (PHIL 2317) Contemporary Philosophy. Comprehensive study of the persons, problems and principles related to the movements of thought within philosophy in recent times; special consideration given to phenomenology, existentialism, linguistic analysis, and process philosophy. Three lecture hours a week. Credit: Three hours.

PHIL 2053. Philosophy of Comparative Religions. (PHIL 1304) A critical analysis of the phenomenon of religion and religious methodology. A comparative consideration of world religious traditions such as Buddhism, Christianity, Confucianism, Hinduism, Islam and Judaism. Three seminar hours a week. Credit: Three hours.

PHIL 2063. Philosophy of Religions in America. An analysis of religious practice in America in its various forms and institutions, and consideration of the challenge of dialogue with people of differing cultural, ideological and religious heritage. Three seminar hours a week. Credit: Three hours.

PHIL 3013. History of Ancient Philosophy. A consideration of the history and development of ideas from the Pre-Socratic period to Plotinus; emphasis placed upon Plato and Aristotle as systematic philosophers. Three lecture hours a week. Credit: Three hours.

PHIL 3023. History of Medieval and Modern Philosophy. A critical study from the period of Plotinus through the Renaissance and Reformation up through Descartes; extensive readings and discussion of the philosophers in this period. Three lecture hours a week. Credit: Three hours.

PHIL 3043. Philosophy of Religion. The inquiry into religion from a philosophical perspective; a study of contemporary theological methodology; emphasis on religious imagery, meaning, the nature of religious experience, and knowledge claims. Three seminar hours a week. Credit: Three hours.

***PHIL 3053. Ethics.** A consideration of the primary ethical theories with respect to personal, social and professional action; the critical discussion of the ethical systems of the major classical philosophies. Three lecture hours a week. Credit: Three hours.

***PHIL 3073. Bioethics.** Centers upon problems of value with respect to biomedical technology, genetics, ecology, abortion, euthanasia, human experimentation, prolongation of life, psychosurgery; ethical and social issues in biomedicine. Three lecture hours a week. Credit: Three hours.

PHIL 3083. Ethics and Feminism. Same as WS 3083. A comprehensive study of the literature, principles and linguistic impact of contemporary ethics with special emphasis on the origins, authors and audiences related to feminist philosophy. Three lecture hours a week. Credit: Three hours.

****PHIL 3163. Ethics in Global Context.** Interactions among history, art,

*Satisfies core requirement for humanities.

**Satisfies global perspectives graduation requirement.

religion, science, and the philosophical ethics. Global context of ethics including the influence of ancient Greece, Rome and Near East; differences in religion, philosophy, and politics. Western and Non-Western interactions and influences. Study abroad trip required. Three lecture hours a week. Credit: Three hours.

***PHIL 4033. Philosophy of Women in Western Religions** - same as WS 4033. A comprehensive study of feminist critiques of Western religious traditions. Includes historical and philosophical perspectives of women in scripture, religious leadership, attitudes toward sexuality, experiences of the sacred, and gendered imagery of the divine. Emphasis on readings of primary sources. Three lecture hours a week. Credit: Three hours.

PHIL 4043. American Philosophy. A study from its earliest history to the present time; special emphasis given to Charles Sanders Pierce, William James, and John Dewey. Three seminar hours a week. Credit: Three hours.

PHIL 4053. Science and Religion. Centers upon the nature and scope of science and method in comparison to the nature and scope of religion, with the emphasis upon modern science, cosmology, biology and physics in relationship to contemporary religious thought. Three seminar hours a week. Credit: Three hours.

PHIL 4913. Independent Study. Prerequisite: Permission of supervising faculty. Credit: Three hours.

* Satisfies core requirement for multi-cultural women's studies.

Department of Sociology and Social Work

Chair: James L. Williams, Professor

Program Director: Abigail C. Tilton

Location: CFO 305

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www.twu.edu/sociology-social-work/

Faculty: Professors M. Sadri, J.L. Williams, P. Yang; Associate Professors S. Brackenridge, L. Marshall, M. Sandel, A. Tilton, L. Zottarelli; Assistant Professor K. Painter.

The Department of Sociology and Social Work offers undergraduate programs leading to the Bachelor of Arts, Bachelor of Science, and Bachelor of Social Work degrees. At the undergraduate level, the student may major in sociology, social work, or criminal justice. Minors in these areas provide backgrounds complementing majors from other fields. An interdisciplinary minor in Ethnic Studies is also available in the department. At the graduate level the department offers programs in sociology leading to the Master of Arts and Doctor of Philosophy degrees. (For information about the graduate degrees in sociology, see the graduate catalog.)

The sociology major is general and broad-based, providing for a systematic study of human society and the application of sociological theories, research methods, and techniques. The social work major offers the student a baccalaureate social work program accredited by the Council on Social Work Education. Based on the generalist model, the program includes theoretical concepts, values, and skills taught through participation in classroom, laboratory, and field settings. The primary objective of the social work major is to prepare students for beginning social work practice. The criminal justice major, offered in cooperation with the Department of History and Government, is designed to acquaint students with the legal aspects, procedures, and functions of the various agencies of the criminal justice system and to prepare the student for working within this system. (For additional information on each of these three majors, see below.)

For information about the sociology program, please visit our web site (www.twu.edu/sociology/). For information about the social work program, please visit our web site (www.twu.edu/social-work/). For information about the criminal justice program please visit our web site (www.twu.edu/criminal-justice/).

Admission Requirements

Please see Admission section of this catalog. The same standards for admission to the University apply to the Department of Sociology and Social Work. Additional admission requirements apply to the Social Work program (see Bachelor of Social Work Degree).

Special Departmental Requirements

No grade lower than C can be counted as credit toward completion of a major or minor in this department. A course can be repeated for credit no more than twice - that is, taken a total of three times.

No more than three hours of Cooperative Education can be counted toward a major in this department and none can be counted toward a minor.

Majors must take a three-hour 1000-level sociology course (with a grade of C or better) before taking an advanced sociology course.

Students are not allowed Independent Study credit for courses typically offered as organized classes.

Internship credit will not be given for former or current employment.

Undergraduate Degrees

B.A. in Sociology

B.S. in Sociology

Bachelor of Social Work

B.A. in Criminal Justice (an interdisciplinary major with the Department of History and Government)

B.S. in Criminal Justice (an interdisciplinary major with the Department of History and Government)

Undergraduate Majors

Bachelor of Arts or Bachelor of Science Degree in Sociology

The sociology curriculum is designed to give students a broad education while preparing them for work and practice in a variety of fields. A wide array of courses provides training in research methods and techniques; insight into class, racial-ethnic and gender inequality; group differences; understanding of social organizations, social forces, and group processes; and skills to be used in working with individuals or groups. The curriculum builds a background for any occupation that involves working with people and/or social organizations. The sociology program can prepare students to teach sociology in the public schools and to do research, practice, or other work with private or governmental agencies. Sociology provides an invaluable background for graduate study and for careers in business, public service, law, medicine, and other helping professions. Opportunities for practical work experience are provided through the University's Cooperative Education Program.

Completion of the B.S. or B.A. degree with a major in sociology requires that the student meet the University-wide requirements for the core curriculum plus 37 hours of sociology as specified below. A minor area is optional, but the decision with regard to a minor should be made by the student in consultation with the faculty advisor. The minor, if elected, should be complementary to the student's interests, career goals, or plans for graduate study.

B.S. / B.A. in Sociology (120 hours)

FIRST YEAR

First Semester	Second Semester
ENG 1013 Composition.....3	ENG 1023 Composition 3
HIST 1013 U.S. History 1492-1865 3	HIST 1023 U.S. History 1865 to Present .. 3
Natural Science (core)..... 3	Natural Science (core)..... 3
Visual/Performing Arts (core)..... 3	Multicultural Women's Studies (core)..... 3
SPCH 1013 Oral Communication..... 3	CSCI 1403 Computer Literacy 3
Total Hours 15	Total Hours 15

SECOND YEAR

First Semester	Second Semester
GOV 2013 U.S. Government.....3	GOV 2023 Texas Government 3
SOCI 1013 Intro to Sociology (core)..... 3	SOCI 1023 Social Problems 3
Humanities (core)..... 3	Literature 3
Foreign Language 3	Foreign Language 3
Math 1013 Quantitative Literacy 3	Visual/Perf Arts or History (for BA) or..... 3
Total Hours 15	Total Hours 15

THIRD YEAR

First Semester	Second Semester
SOCI 3053 Social Research.....3	SOCI 3163 Social Statistics..... 3
SOCI 3023 Social Theory..... 3	SOCI 3051 Social Data Analysis..... 1
SOCI 3083 Population Dynamics..... 3	SOCI 3073 Social Inequality 3
Elective or Foreign Language (for BA). 3	Sociology Elective..... 3
Literature..... 3	Elective or Foreign Language (for BA)..... 3
Total Hours 15	Total Hours 16

FOURTH YEAR

First Semester	Second Semester
SOCI 4103 Senior Seminar.....3	SOCI 3093 Race Ethnic Groups..... 3
Elective 3	Sociology Elective (advanced) 3
Sociology Elective (advanced) 3	Electives 8
Math core - College Algebra or above... 3	
Electives..... 3	
Total Hours 15	Total Hours 14

All students must complete six credit hours in approved Global Perspectives courses, either in the core or major courses (graduation requirement).

Sociology Courses Required

SOCI 1013. Introduction to Sociology
 SOCI 1023. Current Social Problems
 SOCI 3023. Introduction to Sociological Theory
 SOCI 3051. Social Data Analysis
 SOCI 3053. Social Research
 SOCI 3073. Social Inequality
 SOCI 3083. Population Dynamics
 SOCI 3093. Racial and Ethnic Groups in the United States
 SOCI 3163. Social Statistics
 SOCI 4103. Senior Seminar: Theory and Practice

Nine elective hours (with 6 hours advanced) selected from any sociology courses listed in this catalog with the exception of SOCI 3273 and SOCI 3283.

Requirements for B.S. in Sociology (including Core Curriculum)

6 hours History
 6 hours Political Science
 6 hours Composition
 3 hours Mathematics (college-level algebra equivalent or above)
 6 hours Science (with lab)
 3 hours Literature
 6 hours Foreign Language (same language)
 3 hours Multicultural Women's Studies
 3 hours Visual/Performing Arts
 3 hours Computer Science
 3 hours Quantitative Literacy
 3 hours Global Perspectives
 3 hours Humanities

Requirements for B.A. in Sociology (including Core Curriculum)**All of the requirements for a BS degree plus the following:**

6 hours Foreign Language
 6 hours Visual/Performing Arts or History

Bachelor of Social Work Degree

The baccalaureate social work program at the Texas Woman's University was begun in 1946 and is accredited by the Council on Social Work Education. The B.S.W. degree prepares majors for the beginning level of professional social work practice. Career choices include those in health settings, children's and family services, youth work, community mental health, public welfare and services for the elderly. Requirements for admission to the Social Work program include: completion of the social work program application form, approval by the social

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work faculty, a grade point average of 2.5, and approved video assessment completed while enrolled in SOWK 3223/3221.

The curriculum is organized around five areas of study: human behavior and the social environment, social welfare and social policy, methods and skills of intervention, research, and field experience. Content on values and ethics, diversity, populations at risk, and social and economic justice is infused throughout the curriculum. Students are provided with field experience by means of 416-hour (minimum) block placement in area social service agencies.

In addition to the University core curriculum requirements, the B.S.W. degree requires a total of 120 credit hours with 43 hours in social work courses, and 16 hours in sociology plus 6 elective hours in social work (see below). Other required courses are Biology 1011-1012 and Psychology 1013. A grade of C or above must be earned in all required social work and sociology courses. The student may select, with help from the academic advisor, electives complementary to career goals and interests. Students earning the B.S.W. degree are eligible to apply for state social work licensure and are eligible for advanced standing in many master's programs in graduate schools of social work.

Bachelor of Social Work (120 hours)

FIRST YEAR

First Semester	Second Semester
ENG 1013 Composition I.....3	ENG 1023 Composition II..... 3
HIST 1013 U.S. History 1492-1865 3	HIST 1023 U.S. History 1865-Present..... 3
BIOL 1011-1012 Human Bio. & Lab 3	BIOL 1022-1021 (or other lab science)3
SOCI 1023 or 1013 (core)..... 3	GOV 2013 U.S. Government 3
PSY 1013 Intro to Psychology..... 3	MATH 1013 Quantitative Literacy..... 3
Total Hours 15	Total Hours 15

SECOND YEAR

First Semester	Second Semester
Humanities (core).....3	Elective..... 3
GOV 2023 Texas Government..... 3	WS 2013..... 3
Elective 3	Elective 3
Speech 1013 3	CSCI 1403 First Course in Computing 3
MATH 1703 (recommended) or..... 3	Visual/Performing Arts..... 3
other MATH core	
Total Hours 15	Total Hours 15

THIRD YEAR

First Semester	Second Semester
SOWK 1403/1411 Intro Social Welfare..4	SOWK 3233/3231 Social Work Practice
Policies and Services	& Lab..... 4
SOWK 3223/3221 Social Work 4	SOWK 3053 Social Research 3
Practice and Lab	SOWK 3813 Human Behv. in the 3
SOCI 3163/3051 Social Statistics..... 4	Social Environment II
SOWK 2813 Human Behv in the..... 3	SOWK Elective 3
Environment I	Elective 3
Elective 1	
Total Hours 16	Total Hours 16

FOURTH YEAR

First Semester	Second Semester
SOWK 3243/3241 Social Work4	SOWK 4463 Social Work Integrative 3
Practice III & Lab	Seminar
SOWK 4433 Social Issues, Programs.... 3	SOWK 4469 Social Work Field 9
& Policies	Practicum
SOWK 4423 Senior Social Work Sem. . 3	
SOWK Elective..... 3	
Elective 3	
Total Hours 16	Total Hours 12

All students must complete six credit hours in approved Global Perspectives courses, either in the core or major courses (graduation requirement).

Bachelor of Arts or Bachelor of Science Degree in Criminal Justice

For information about the Criminal Justice major, please see the Criminal Justice section of this catalog.

Teaching Certification

Students interested in Sociology who wish to pursue teacher certification may choose to pursue certification in Social Studies.

Departmental Minors

Sociology

A minor in sociology at the baccalaureate level requires 18 semester hours of sociology, including SOCI 1013 or 1023, either SOCI 3023 or SOCI 3073 and six advanced hours of sociology. Course selections are tailored to the student's major in consultation with departmental advisors. SOCI 3273 and SOCI 3283 will not count for credit toward the minor.

Criminal Justice

For information about the criminal justice minor, please see the Criminal Justice section of this catalog.

Ethnic Studies

A selection of course offerings from a variety of disciplines allows the students to explore cultural and ethnic diversity on different levels, from individual to global, and in different settings. Students wishing to minor in Ethnic Studies should select 18 hours from courses listed below. In addition, some departments will offer special topics courses that are appropriate for inclusion in the Ethnic Studies minor when approved by the advisor in the Department of Sociology and Social Work.

BUS 3183. Introduction to International Business

EDBE 3033. Language and Culture
 EDBE 3643. Foundations in Bilingual Education
 ENG 3153. American Ethnic Literature
 ENG 4333. Introduction to the Study of World Literature
 FT 4083. Global Dress and Adornment
 GOVT 3513. Japanese Culture and Politics
 HIST 3713. History of Texas
 HIST 3763. History of Latin America
 SOCI 1413. Culture, Inequality and Self
 SOCI 3093. Racial and Ethnic Groups in the U.S.
 SOCI 3183. African Americans in the U.S.
 SOCI 3193. The Mexican American in Contemporary Society
 SOCI 3303. Cultural Anthropology
 SOCI 3313. Indigenous People in Contemporary Society

Sociology Undergraduate Courses

****SOCI1013. Introductory Sociology.** (SOCI 1301) Basic concepts, theoretical orientations, research, and applications in sociology. Survey US and global contexts of social organization, culture, socialization, institutions, populations, and society diversity. Examines basic sociological ideas of social interaction, structure, and change in the US and globally. Three lecture hours a week. Credit: Three hours.

***SOCI 1023. Current Social Problems.** (SOCI 1306) Examines linkages between personal problems, social problems, and social policy. Critical analysis of problems such as inequality, health care, substance abuse, the environment, family violence, etc. as these relate to societal conditions. Three lecture hours a week. Credit: Three hours.

*****SOCI 1413. Culture, Inequality and Self.** Same as SOWK 1413. Human behavior as affected by culture, social institutions, class, ethnicity, and interpersonal relations. Three lecture hours a week. Credit: Three hours.

SOCI 2023. Marriage, Family and Intimate Relationships. (SOCI 2301) Overview of the structural, developmental, functional and institutional aspects of marriage, intimate relationships and the family. Changes in family patterns and racial, cultural and ethnic diversity in families. Three lecture hours a week. Credit: Three hours.

SOCI 2133. Crime in America. (CRIJ 1307) (SOCI 2336) U.S. crime problems in sociological perspective; public policies affecting crime; impact of inequality, race and gender on crime; crime trends; crime patterns; theories of criminal behavior; prevention of crime. Three lecture hours a week. Credit: Three hours.

SOCI 2813. Human Behavior and the Social Environment. Same as SOWK 2813. Uses a wide range of perspectives--biological, psychological and social/environmental to examine the dynamics of human behavior. Emphasizes

*Satisfies core social/behavioral requirement.

**Satisfies global perspective requirement for graduation and core requirement for social/behavioral sciences.

***Satisfies core requirement for multicultural/women's studies.

ecological systems in relation to individuals' needs and capacities throughout the life cycle. Three lecture hours a week. Credit: Three hours.

SOCI 3003. Theories of Crime and Deviance. Examination of leading theories of crime and deviance. Classical and contemporary theories are reviewed, with particular attention to the context within which each developed. Emphasis is on applications to the study of crime and crime control. Three lecture hours a week. Credit: Three hours.

SOCI 3023. Introduction to Sociological Theory. Historical development of sociological theory, structure and role of theory, sociological theoretical perspectives, and major sociological theories from classics to contemporary sociology. Required of sociology majors. Prerequisite for majors: SOCI 1013. Three lecture hours a week. Credit: Three hours.

SOCI 3043. Deviant Behavior and Social Control. Examines social definitions of deviant behavior, the historical development of knowledge concerning deviance, theories of deviance, and the development, organization, and operation of systems of social control including criminal justice, mental health and welfare. Three lecture hours a week. Credit: Three hours.

SOCI 3051. Social Data Analysis. Students will gain experience in using computers to analyze social data. No previous experience with computers is assumed. Concurrent enrollment (and drop) required: SOCI 3163. If it is necessary for a student to repeat this course for grade improvement, it is not necessary to repeat SOCI 3163 if a grade of C or better has already been earned in that course. May be repeated for credit. Two laboratory hours a week. Credit: One hour.

SOCI 3053. Social Research. Same as SOWK 3053. Introduction to research in the social sciences and practice fields. Emphasizes the decision making involved in planning and executing a study. Gives practice in all stages of the research process. Students are expected to plan and carry out a group or individual research project. Prerequisite or concurrent enrollment for major SOCI 3163. Three lecture hours a week. Credit: Three hours.

SOCI 3063. Topics in Urban Sociology. Historical and contemporary developments in urban sociology including the local community. Emphasis will vary depending on current issues and research, such as classical and contemporary theory and research, urban political economy, community organization-development, community relations and the non-profit sector (community assessment, social activism, and volunteerism). May be repeated for credit as topics vary. Three lecture hours a week. Credit: Three hours.

SOCI 3073. Social Inequality. The study of social inequality in human society, with emphasis on the social class structure of society, its origins, development, and consequences for the society and the individual. Three lecture hours a week. Credit: Three hours.

***SOCI 3083. Population Dynamics.** Population theories, the use and interpretation of demographic data, population change and policy, relationships between population and socioeconomic factors. Emphasizes on demographic processes and compositions in age, sex, residence, race/ethnicity, socioeconomic status of U.S.

*Satisfies global perspective requirement for graduation.

and world populations. Three lecture hours a week. Credit: Three hours.

****SOCI3093. Racial and Ethnic Groups in the United States.** (HUMA2319) Sociological perspectives on the dynamics of racial and ethnic relations focusing on social structure, group interaction processes, group inequality, cultural diversity and gender relations within and between groups. Uses sociological-historical analysis, gendered analysis, social theory/research to study Native Americans, African Americans, Asian Americans, Latinos, and European Americans. Three lecture hours a week. Credit: Three hours.

SOCI3113. Juvenile Delinquency. (SOC12339) The adjustment of youths as they take on the roles and statuses culturally defined for their age group; emphasis on causation, treatment, and prevention of juvenile delinquency; sociological principles for working with youth. Three lecture hours a week. Credit: Three hours.

SOCI 3163. Social Statistics. Introduction to basic statistics and problems of statistical decision-making in the social and behavioral sciences. Descriptive techniques, problems of hypothesis testing, introduction to major correlational techniques commonly used in social/behavioral research. May not be used to satisfy University General Education requirements. Concurrent enrollment required: SOCI 3051. Three lecture hours a week. Credit: Three hours.

SOCI 3173. Culture and Food. Same as NFS 3173. Study of influence of culture on current food habits and customs. Examination of changing food patterns and availability, nutrient composition and health effects of foods typical of different cultures. Three lecture hours a week. Credit: Three hours.

SOCI 3183. African Americans in the United States. The unique heritage and experience of African Americans in the United States, their contributions to society and culture. The centrality of race as a social category shaped by the dynamics of social, political, and economic forces. Diversity and commonality in the Black community. Current issues. Three lecture hours a week. Credit: Three hours.

SOCI3193. The Mexican American in Contemporary Society. A sociological analysis of Mexican American history, heritage, and people, and of their contributions to American life. Focus on the political, social, and cultural forces that affect this group in the United States. Three lecture hours a week. Credit: Three hours.

****SOCI3213. Women's Roles.** Same as WS 3213. Women's roles are examined in the context of social institutions such as the family, the economy and the government. Implications of sexual inequality, changing gender roles, and diversity by race, ethnicity, class and age. Three lecture hours a week. Credit: Three hours.

***SOCI 3273. World Regional Geography.** (GEOG 1303) Introduction to major concepts in geography. Criteria for definition of regions. Survey of world cultural regions with emphasis on factors (physical, demographic, economic, political) affecting level of development and patterns of regional interaction. This course will not satisfy sociology requirement for the baccalaureate degree. Three lecture hours a week. Credit: Three hours.

SOCI3283. Principles of Geography. (GEOG 1300) Review of major concepts in human geography. Emphasis on the relationships of human population dynamics, culture, and physical environment. Examples are drawn from a wide range of

*Satisfies global perspectives requirement for graduation.

**Satisfies core multicultural women's studies requirement.

current concerns in human ecology. This course will not count for sociology credit for the baccalaureate degree. Three lecture hours a week. Credit: Three hours.

SOCI 3293. Asian Americans. Survey of major Asian American groups: Chinese, Japanese, Filipinos, Koreans, Asian Indians, and Indochinese. Emphasis on origin, culture, immigration history, adaptation experience, and current status. Sociological perspectives related to Asian American experiences and issues. Three lecture hours a week. Credit: Three hours.

***SOCI3303. Cultural Anthropology.** (ANTH 2351) Description and analysis of human cultures--the socially learned traditions--of past and present ages. Global and comparative perspective for understanding the origin and prospects of societies in the modern world. Three lecture hours a week. Credit: Three hours.

SOCI 3313. Indigenous People in Contemporary Society. Survey of indigenous societies in the Americas with emphasis on current issues. Provides historical framework for study of policies affecting urban and rural communities today. Contributions of Indigenous culture to U.S. society are emphasized. Three lecture hours a week. Credit: Three hours.

SOCI 3423. Individual and Society. Sociological research on the relationship between individuals and society; current theoretical perspectives including symbolic interactionism, role theory, and dramaturgy; includes personality and social structure, socialization, deviance, and sociological research on the self. Three lecture hours a week. Credit: Three hours.

* ****SOCI3483. Developing Societies.** Same as SOWK 3483. Survey of global development issues: definitions and theoretical perspectives. Case studies from varied world regions illustrate development strategies and outcomes. Examines role of international organizations and policies. Three lecture hours a week. Credit: Three hours.

SOCI 3523. Sociology of Cyberspace. Explores the Internet and cyberspace as sociological phenomena. Topics include the impact of computers on human interaction, the sociology of cyberspace, an overview of basic Internet and WWW resources, cybercapitalism, privacy, and technology. Two lecture and two laboratory hours a week. Credit: Three hours.

SOCI 4013. The Family. Same as WS 4113. A sociological and feminist analysis of the family as an institution and dynamics of the interpersonal relations of marriage and family. Examines cultural diversity among families as well as historical changes in the family and the impact of social policy. Three lecture hours a week. Credit: Three hours.

SOCI 4023. Sexualities and Identities: Lesbian, Gay, Bisexual and Transgender Studies. Same as WS 4023 and SOWK 4023. Sexuality as an identity formation, social category, and theoretical construct. Interdisciplinary in focus and foundation. Aesthetic, cultural, historical, and institutional discourses which frame our contemporary understandings of sexuality. Three lecture hours a week. Credit: Three hours.

* Satisfies global perspectives requirement for graduation.

** Satisfies core requirement for social/behavioral sciences.

SOCI 4103. Senior Seminar: Theory and Practice. Selected theories and concepts with emphasis on application in social organizations, occupations, research, and social policy. State of the discipline, professional ethics, preparations for job market and/or graduate school. Prerequisites: SOCI 3023, SOCI 3053, and senior standing. Three lecture hours a week. Credit: Three hours.

SOCI 4203. Family Violence and Sexual Assault. (WS 4203) Examines the various forms of family violence and sexual assault with an emphasis on women as victims and as survivors. Theoretical explanations, research literature, treatment, and prevention will be studied in relation to child abuse, battering, incest, and sexual assault. Three lecture hours a week. Credit: Three hours.

SOCI 4303. Correctional Systems and Practices. (CRIJ 2313) Corrections in the criminal justice system; organization of correctional systems; role of criminal justice practitioners; institutional operations; alternatives to incarceration; treatment and rehabilitation; current and future issues. Three lecture hours a week. Credit: Three hours.

SOCI 4603. Sociology of Disasters. Sociological study of disaster events. Social factors affecting vulnerability and disaster response. Case studies of major disasters. Relationship of disasters to social change. Three lecture hours a week. Credit: Three hours.

SOCI 4703. Criminal Justice Practicum. Practical experience in criminal justice agencies enhancing the student's knowledge of research, planning, and organizational features of the criminal justice system. Prerequisites: 12 hours of criminal justice courses, permission of the instructor, and an overall C average. Pass-Fail grade only. Credit: Three hours.

SOCI 4903. Selected Topics. Topics of timely interest or importance but not included or adequately covered in the present inventory of courses. May be repeated for credit when topic varies. Three lecture hours a week. Credit: Three hours.

SOCI 4911. Independent Study. A focused, independent study. Credit: One hour.

SOCI 4913. Independent Study. A focused, independent study. A contractual agreement between a student and an instructor who agrees to supervise the work and engage in one-on-one instruction. Research projects or concentrated reading are examples of appropriate independent study. Credit: Three hours.

SOCI 4953. Internship. Practical experience and supervised training in a work environment consistent with student's major and career goals. Pass-Fail grade only. Credit: Three hours.

SOCI 4956. Internship. Practical experience and supervised training in a work environment consistent with student's major and career goals. Pass-Fail grade only. Credit: Six hours.

Graduate Courses

Please refer to the Graduate Catalog or the department website for information about our graduate courses.

Social Work Undergraduate Courses

***SOWK 1403. Introduction to Social Welfare Policies and Services.** Examination of U.S. social welfare systems in historical, social, political, and cultural contexts. Emphasis on social science methods to critically analyze social problems and the various service and policy responses to them. Concurrent enrollment in SOWK 1411. Three lecture hours a week. Credit: Three hours

SOWK 1411. Social Work Praxis Lab. An opportunity to gain familiarity with the helping process through a 30-hour volunteer work experience in an approved social service agency. Journal keeping, agency analysis, and structured reflection provide insight into client populations and various helping roles in a professional setting. Two laboratory hours a week. Credit: One hour.

SOWK 1413. Culture, Inequality and Self. Same as SOCI 1413. Human behavior as affected by culture, social institutions, class, ethnicity, and interpersonal relationships. Satisfies core curriculum requirement for Multicultural Studies. Three lecture hours a week. Credit: Three hours.

SOWK 2813. Human Behavior and the Social Environment. Same as SOCI 2813. Uses a wide range of perspectives--biological, psychological and social/environmental to examine the dynamics of human behavior. Emphasizes ecological systems in relation to individuals' needs and capacities throughout the life cycle. Three lecture hours a week. Credit: Three hours.

SOWK 3053. Social Research. Same as SOCI 3053. Introduction to research in the social sciences and practice fields. Emphasizes the decision making involved in planning and executing a study. Gives practice in all stages of the research process. Students are expected to plan and carry out a group or individual research project. Prerequisite or concurrent enrollment for major SOCI 3163. Three lecture hours a week. Credit: Three hours.

SOWK 3221. Social Work Practice I Laboratory. Application of social work practice skills with emphasis on assessment of individual functioning. Use of video lab. Concurrent enrollment: SOWK 3223. Two laboratory hours a week. Credit: One hour.

SOWK 3223. Social Work Practice I. Theory and process for generalist social work practice. With a person-in-environment focus, study includes development of the helping relationship, skills in interviewing and data-gathering, assessment, selecting and carrying out appropriate types of intervention at multiple levels, termination, and evaluation. Concurrent enrollment: SOWK 3221. Three lecture hours a week. Credit: Three hours.

SOWK 3231. Social Work Practice II Laboratory. Application of social work practice skills with emphasis on assessment of individual and family functioning. Use of video lab. Prerequisite: SOWK 3221 and SOWK 3223. Concurrent Enrollment: SOWK 3233. Two laboratory hours a week. Credit: One hour.

SOWK 3233. Social Work Practice II. Continuation of theory and process for generalist social work practice. Builds on content from SOWK 3223, including further development of interviewing, assessment, and recording skills. Includes

*Satisfies core social/behavioral requirements.

in-depth study of small group and family dynamics, skills, and techniques in mediation and leadership, evaluation of intervention effectiveness at multiple levels. Prerequisite: SOWK 3223 and SOWK 3221. Concurrent enrollment: SOWK 3231. Three lecture hours a week. Credit: Three hours.

SOWK 3241. Social Work Practice III Laboratory. Application of social work practice skills with emphasis on assessment of community needs and resources. Concurrent enrollment: SOWK 3243. Two laboratory hours a week. Credit: One hour.

SOWK 3243. Social Work Practice III. Social work intervention at multiple levels with emphasis on situations where there is a lack of fit between individuals or groups and organizations or institutions. Builds on content in SOWK 3223 and 3233, skills in data gathering, assessment, planning, report writing, and evaluation. Preparation for generalist social work practice with focus on roles of advocate, evaluator, planner, and consultant. Examines delivery of service for at-risk populations. Prerequisites: SOWK 3233 and SOWK 3231. Concurrent enrollment: SOWK 3241. Three lecture hours a week. Credit: Three hours.

SOWK 3413. Methods and Skills in Working with Groups. Introduction to group work as an interventive skill for helping professionals. Includes history, objectives, theory, and techniques for use in clinical settings. Classroom practice in group leadership and mediation. Appropriate for interdisciplinary team practice. Intended for non-social work majors. Three lecture hours a week. Credit: Three hours.

SOWK 3453. Children's Rights and Services. An exploration of the customary and legal rights of children with a focus on social and political forces. Social services available in income maintenance, schools, day care, institutional care, foster care, homemaker service, protective services, and to teenage parents. Three lecture hours a week. Credit: Three hours.

SOWK 3463. Social Work in Health Settings. Social work roles, interventions and issues related to health care. Examines impact of illness and disability on individuals and families, policies, and programs. Case examples illustrate ethical decision-making and teamwork with other health service providers in a variety of settings. Three lecture hours a week. Credit: Three hours.

***SOWK 3483. Developing Societies.** Same as SOCI 3483. Survey of global development issues: definitions and theoretical perspectives. Case studies from varied world regions illustrate development strategies and outcomes. Examines role of international organizations and policies. Three lecture hours a week. Credit: Three hours.

SOWK 3813. Human Behavior in the Social Environment II. Examines systems of all sizes, from families to broad social institutions; extends theories and principles from SOWK 2813 to analyze social and economic injustice and systems of oppression; application of social work skills and values to ameliorate these conditions in a complex and diversified society. Prerequisite: SOWK 2813. Three lecture hours a week. Credit: Three hours.

*Satisfies core social/behavioral requirements.

SOWK 4023. Sexualities and Identities: Lesbian, Gay, Bisexual and Transgender Studies. Same as WS 4023 and SOCI 4023. Sexuality as an identity formation, social category, and theoretical construct. Interdisciplinary in focus and foundation. Aesthetic, cultural, historical, and institutional discourses which frame our contemporary understandings of sexuality. Three lecture hours a week. Credit: Three hours.

SOWK 4423. Senior Social Work Seminar. Integrates aspects of social work knowledge, attitudes, and skills from previous courses into a meaningful, useful resource. Theories of human behavior, social work methodology, and professional issues are examined in relation to agency settings. Three seminar hours a week. Credit: Three hours.

SOWK 4433. Social Issues, Programs, and Policies. An examination of the policy-making process. Current social issues, programs, and public policy issues are explored. Intervention techniques aimed at influencing and changing social welfare and public policies. Three lecture hours a week. Credit: Three hours.

SOWK 4463. Social Work Integrative Seminar. Provides an opportunity to discuss and process the field practicum experience. Concurrent enrollment required: SOWK 4469. Three lecture hours a week. Credit: Three hours.

SOWK 4469. Social Work Field Practicum. Provides students with a supervised social work experience in an agency setting. Prerequisites: Completion of all course work, a grade point average of 2.5 or above, a grade of C or better in all required courses, and permission of the social work faculty. Concurrent enrollment required: SOWK 4463. Thirty-two laboratory hours a week. Credit: Nine hours.

SOWK 4903. Selected Topics.

SOWK 4911. Independent Study.

SOWK 4913. Independent Study.

Criminal Justice Program

Program Director: James L. Williams, Professor

Location: CFO 305

Telephone: (940) 898-2051

E-Mail: JWILLIAMS2@MAIL.TWU.EDU

www.twu.edu/criminal-justice/

Undergraduate courses are regularly taught by faculty from the Departments of Sociology and Social Work and History/Government

The Criminal Justice Program offers an undergraduate major leading to the Bachelor of Arts or Bachelor of Science degrees. A minor in Criminal Justice is also offered. The criminal justice major, offered in cooperation with the Department of History and Government, provides students interested in the various aspects of criminal justice with a broad, general education with emphasis on the social sciences. Students become acquainted with the legal aspects, agencies, procedures, and operations of the criminal justice system including law enforcement, the judicial system, corrections, and social services. To help prepare for careers in the criminal justice system, students are encouraged to consider a wide range of internship opportunities offered in the program. Students are prepared to work in a variety of careers in the criminal justice system and in related occupations.

Transfer Students

Transfer students are welcome to complete their criminal justice major in this program. Special care has been taken to structure the curriculum to facilitate transfer of credit from all community college programs in Texas. All required courses for the major can now be completed online within a two year period.

Admission Requirements

Please see Admission section of this catalog. The same standards for admission to the University apply to the Criminal Justice Program.

Special Requirements

No grade lower than C can be counted as credit toward completion of a major in Criminal Justice. A course can be repeated for credit no more than twice - that is, taken a total of three times.

No more than three hours of Internship credit can be counted toward a major in Criminal Justice, and none can be counted toward a minor.

Criminal Justice Majors must take a three-hour 1000-level sociology course (preferably SOCI 1013, with a grade of C or better) before taking an advanced sociology course.

Bachelor of Arts or Bachelor of Science Degree in Criminal Justice

The major in Criminal Justice is interdisciplinary and draws upon the strengths of the Department of Sociology and Social Work and the Department of History and Government. Course offerings include crime in America, criminal law, criminal evidence and procedure, sociology of deviance, family law, constitutional law, correctional systems and practices, and correctional counseling. Opportunities for practical work experience are provided through internships and the University's Cooperative Education program.

Completion of a B.S. or B.A. degree with a major in Criminal Justice requires that the student meet all the university's general requirements for the appropriate degree. The major in Criminal Justice consists of 39 semester hours as outlined below. A minor is optional and if elected, students are encouraged to consider such minors as accounting, business administration, computer science, economics, government, management, psychology, sociology and social work. Elective credits are available to allow the student to pursue individual interests as well as to further strengthen career preparation. For the B.A. degree six hours in foreign language are required in addition to the requirements for the B.S. degree.

For descriptions of required and elective courses, please see the Sociology and Social Work course descriptions and the History/Government course descriptions.

B.S. / B.A. in Criminal Justice (120 hours)

FIRST YEAR

First Semester	Second Semester
ENG 1013 Composition.....3	ENG 1023 Composition 3
HIST 1013 U.S. History 1492-1865 3	HIST 1023 U.S. History 1865 to Present ... 3
Natural Science w/Lab (core) 3-4	Natural Science w/Lab (core).....3-4
Visual/Performing Arts (core)..... 3	Multicultural Women's Studies (core)..... 3
Oral Communication or Elective 3	Computer Literacy (or elective) 3
Total Hours 15	Total Hours 15

SECOND YEAR

First Semester	Second Semester
GOV 2013 U.S. Government.....3	GOV 2023 Texas Government 3
GOV 2213 Intro. to Criminal Justice..... 3	SOCI 2133 Crime in America..... 3
Humanities (core) 3	Literature (core) 3
Foreign Language 3	Foreign Language..... 3
MATH 1013 Quantitative Literacy 3	Math (core) 3
Total Hours 15	Total Hours 15

THIRD YEAR

First Semester	Second Semester
SOCI 3053 Social Research.....3	SOCI 3003 Theories of Crime/Deviance .. 3
GOV 3243 Criminal Law 3	CJ elective (advanced)..... 3
Elective or Foreign Language (for BA). 3	Elective or Foreign Language (for BA)3
Electives (global perspectives..... 6	Electives (global perspectives 6
course recommended)	course recommended)
Total Hours 15	Total Hours 15

FOURTH YEAR

First Semester	Second Semester
GOV 4073 Con Law Gov. Structure.....3	SOCI 3043 Deviant Behavior..... 3
Soc/Behavioral Science (core) 3	GOV 4083 Constitutional Law 3
(SOCI 1013 recommended)	Individ. Rights
CJ Electives (advanced)..... 6	CJ Electives 6
Elective or Minor 3	Electives 3
Total Hours 15	Total Hours 15

All students must complete six credit hours in approved Global Perspectives courses, either in the core or major courses (graduation requirement).

Courses Required for Criminal Justice Major

Required courses for Major

GOV 2213. Introduction to Criminal Justice
 GOV 3243. Criminal Law
 GOV 4073. Constitutional Law: Governmental Structure
 GOV 4083. Constitutional Law: Individual Rights
 SOCI 2133. Crime in America
 SOCI 3003. Theories of Crime and Deviance
 SOCI 3043. Deviant Behavior and Social Control
 SOCI 3053. Social Research

Plus 15 hours from the following list, of which 9 must be advanced

GOV 2223. Criminal Investigation
 GOV 3153. Legal Environment
 GOV 3233. Police Policies and Practices
 GOV 3253. Criminal Evidence and Procedure
 GOV 3333. Urban Government
 GOV 4113. Public Administration
 GOV 4133. Women in Leadership
 GOV 4143. Drug Law and Policy
 GOV 4433. Family Law
 HIST 3213. History of Law and Justice
 SOCI 3063. Urban Sociology
 SOCI 3113. Juvenile Delinquency
 SOCI 4023. Sexualities and Identities
 SOCI 4203. Family Violence and Sexual Assault
 SOCI 4303. Correctional Systems and Practices

Criminal Justice Minor

A minor in Criminal Justice consists of 18 hours as follows:

GOV 2213. Introduction to Criminal Justice

SOCI 2133. Crime in America

Plus 6 hours from among:

SOCI 3003. Theories of Crime and Deviance

SOCI 3043. Deviant Behavior and Social Control

SOCI 3063. Topics in Urban Sociology

SOCI 3093. Racial and Ethnic Groups in the United States

SOCI 3113. Juvenile Delinquency

SOCI 4023. Sexualities and Identities

SOCI 4203. Family Violence and Sexual Assault

SOCI 4303. Correctional Systems and Practices

And 6 hours from among:

GOV 3233. Police Policies and Practices

GOV 3243. Criminal Law

GOV 3253. Criminal Evidence and Procedure

GOV 3333. Urban Government

GOV 4073. Constitutional Law: Governmental Structure

GOV 4083. Constitutional Law: Individual Rights

GOV 4113. Public Administration

GOV 4133. Women in Leadership

GOV 4143. Drug Law and Policy

GOV 4433. Family Law

Department of Women's Studies

Chair: Claire L. Sahlin, Associate Professor

Location: HDB 307

Telephone: (940) 898-2119

Telefax: (940) 898-2101

E-mail: womenstudies@twu.edu

Web site: www.twu.edu/ws/

Faculty: Professor A. Keating; Associate Professor C. Sahlin; Assistant Professors, A. Beins, D. Phillips. Undergraduate and graduate courses are regularly taught by faculty from across the University.

The Department of Women's Studies offers an undergraduate minor, a Master of Arts degree, a Graduate Certificate, and a Doctor of Philosophy degree.

An interdisciplinary, cross-cultural field of study, Women's Studies promotes understanding of the diversity of women's lives as they are intersected by race, ethnicity, nationality, age, class, sexuality, religion, and disability. Women's Studies also uses multiple critical lenses to expand and question existing modes of knowledge and power. It provides a curriculum grounded in diverse feminist theories, methodologies, and ethics; promotes interdisciplinary scholarly endeavors; and seeks to prepare leaders with skills for negotiating change in academic and community settings.

A minor in Women's Studies is offered for students who wish to engage in multidisciplinary exploration of issues related to women, gender, and social justice. Minors are required to take WS 2013 (Gender and Social Change), WS 3023 (U.S. Women of Colors), WS 4493 (Feminist Theories), and three other Women's Studies courses of their choice. For more information contact the Women's Studies minor advisor.

At the graduate level, the Department offers the only freestanding Master of Arts degree in Women's Studies in the Dallas/Ft. Worth region and the only Ph.D. degree in Women's Studies in Texas. (For further information, see the Graduate Catalog and visit the Program's web site: www.twu.edu/ws/).

Women's Studies Undergraduate Courses

WS 1013. Women in Learning Communities. Interdisciplinary introduction to the acquisition, dissemination, and preservation of knowledge from women's perspectives. Centers on the intellectual creativity of various disciplines, women's contributions to the disciplines, and career opportunities resulting from the disciplines. Three lecture hours a week. Credit: Three hours.

**** *WS 2013. Gender and Social Change: An Introduction to Multicultural-Women's Studies.** Introduction to multicultural-women's studies as an interdisciplinary field and how gender, "race," class, nationality, sexuality, disability, and other identity categories shape human experiences. Examination of social institutions, norms, and practices for their impact on the status and roles of women; visions and strategies for social transformation. Three lecture hours a week. Credit: Three hours.

***WS 2053. Women and Minorities in Engineering, Mathematics, and Science.** Same as MATH 2053. Examines reasons why women and minorities are traditionally underrepresented in the areas of engineering, mathematics, and science and includes strategies for increasing their representation. Introduction to problem-solving strategies, useful for any discipline, which emphasize solutions incorporating both current and emerging technologies. Three lecture hours a week. Credit: Three hours.

WS 2093. Women as Citizens: Women and Community Activism. Same as GOV 2093. Interdisciplinary analysis of women's roles in community building from colonial period to present and examination of current grassroots activism in the United States and worldwide. Emphasis on women leaders, interest groups, and movements impacting the political process. Required community service internship. Three lecture hours a week. Credit: Three hours.

***WS 2803. Women in Business.** Same as BUS 2803. The study of the status and roles of women working both inside and outside the domestic workforce. Examines myths and realities of women's experiences across various socioeconomic, racial, ethnic, and cultural groupings. Surveys advances made by women in the workforce and coping techniques developed by practitioners to enable women to be valued in terms of professional competencies rather than gender stereotypes. Three lecture hours a week. Credit: Three hours.

***WS 3013. Gender and Education.** Same as EDUC 3013. An interdisciplinary examination of the relationship between gender and education in the U.S. Explores how gender relationships are created, maintained, enacted, and transformed through educational structures, practices, and institutions. Three lecture hours a week. Credit: Three hours.

***WS 3023. U.S. Women of Colors.** Multidisciplinary, relational explorations of the histories, theories, cultures, and lives of U.S. women from a wide variety of ethnic/cultural backgrounds. Themes of agency, survival, resistance,

*Meets core curriculum requirement for multicultural women's studies.

** Satisfies global perspectives requirement for graduation.

and transformation. May be repeated for credit when topics vary. Three lecture hours a week. Credit: Three hours.

WS 3063. Women in Politics. Same as GOV 3063. Impact of gender on power and influence in society; political socialization, participation and leadership of women; women's political issues and movements. Prerequisite: Three hours of government or consent of instructor. Three lecture hours a week. Credit: Three hours.

WS 3083. Ethics and Feminism. Same as PHIL 3083. A comprehensive study of the literature, principles and linguistic impact of contemporary ethics with special emphasis on the origins, authors and audiences related to feminist philosophy. Three lecture hours a week. Credit: Three hours.

***WS 3133. Perspectives on Women's Health.** Same as HS 3133. Feminist theory provides framework for exploration of women's health care issues throughout the life span. Examines roles of women as providers and consumers of health care. Emphasizes the interface of gender, socio-economic and minority status, and medicalization of women's health. Three lecture hours a week. Credit: Three hours.

***WS 3143. Multicultural Women's Health Issues.** Same as NURS 3143. Focuses on roles and health needs of women within the context of their culture. Empowerment of women to overcome barriers to health access and delivery will be emphasized. Cultures will be organized by ethnicity, sexual orientation, and age groups as well as alternative health practices. Three lecture hours a week. Credit: Three hours.

***WS 3163. The Evolving Woman.** Same as BIOL 3163 and NURS 3163. Emphasizes the physiological, socio-cultural, and developmental evolution of the female from conception to death. Three lecture hours a week. Credit: Three hours.

***WS 3213. Women's Roles.** Same as SOCI 3213. Women's roles are examined in the context of social institutions such as the family, the economy, and the government. Implications of sexual inequality, changing gender roles, and diversity by race, ethnicity, class, and age. Three lecture hours a week. Credit: Three hours.

*****WS 3343. Women in the Visual Arts.** Same as ART 3343. A survey of women visual artists of the western world and how their roles relate to those of women visual artists around the world. An analysis, from a traditional and a feminist point of view, of the recording of the female artist's place in history. Three lecture hours a week. Credit: Three hours.

*****WS 3383. Dance, Gender, and Culture.** Same as DNCE 3383. Dance expression and how it inscribes markers of identity such as gender, race, ethnicity, social class, ableness, and sexuality on the body in performance; the analysis of movement in social, cultural, and historical contexts and the aesthetic characteristics that influence how dance is perceived and interpreted. Three lecture hours a week. Credit: Three hours.

*Meets core curriculum requirement for multicultural women's studies.

***Meets core curriculum requirements for visual/performing arts or multicultural women's studies.

*** WS 3393. Law for Women.** Same as BUS 3393 and GOV 3393. Impact of gender on legal status; evolution of the current legal environment, with an emphasis on parallels between racial and gender discrimination; substantive law regarding working conditions, compensation, education, the family, reproductive rights, and criminal law; feminist perspectives on legal reforms to improve the professional lives of women and men. Three lecture hours a week. Credit: Three hours.

*****WS 3703. Women in Music.** Same as MU 3703. An examination of music from the historical, cultural, and contemporary perspectives of women. Topics will include women as composers and performers, and the cultural values that have affected women's participation in musical life. Three lecture hours a week. Credit: Three hours.

***+WS 3733. Psychology of Women.** Same as PSY 3733. Issues in the development and behavior of women, including theoretical perspectives, male-female differences, achievement, motivation, stereotypes, androgyny, sexuality, career choices, mental health and disorder, psychotherapy, life-span and special sub-groups. Prerequisites: PSY 1013 and junior standing or permission of the instructor. Three lecture hours a week. Credit: Three hours.

WS 4013. Texts, Trends and Issues in Women's Studies. Focuses on contemporary women's issues, a body of research or scholarly work relevant to women, or topics of a specialized nature such as women and health, women and leadership, women and work, or women of color. May be repeated for credit when the topic varies. Three lecture hours a week. Credit: Three hours.

WS 4023. Sexualities and Identities: Lesbian, Gay, Bisexual, and Transgender Studies. Same as SOCI 4023 and SOWK 4023. Sexuality as an identity formation social category, and theoretical construct. Interdisciplinary in focus and foundation. Aesthetic, cultural, historical, and institutional discourses that frame our contemporary understandings of sexuality. Three lecture hours a week. Credit: Three hours.

***WS 4033. Philosophy of Women in Western Religions.** Same as PHIL 4033. A comprehensive study of feminist critiques of Western religious traditions. Includes historical and philosophical perspectives of women in scripture, religious leadership, attitudes toward sexuality, experiences of the sacred, and gendered imagery of the divine. Emphasis on readings of primary sources. Three lecture hours a week. Credit: Three hours.

WS 4113. The Family. Same as SOCI 4013. A sociological and feminist analysis of the family as an institution and of the processes and dynamics of the interpersonal relations of marriage and family life. Examines cultural diversity among families as well as historical changes in the family and the impact of social policy. Three lecture hours a week. Credit: Three hours.

*Meets core curriculum requirement for multicultural women's studies.

***Meets core curriculum requirements for visual/performing arts and multicultural women's studies.

+ Meets core curriculum requirement for social/behavioral.

WS 4203. Family Violence. Same as SOCI 4203. Examines the various forms of family violence and sexual assault with an emphasis on women as victims and as survivors. Theoretical explanations, research literature, treatment, and prevention will be studied in relation to child abuse, battering, incest, and sexual assault. Three lecture hours a week. Credit: Three hours.

***WS 4393. American Women and Literature.** Same as ENG 4393. Emphasis on the changing images of major female characters and on the contributions of major female writers from the colonial period to the present. Focus may be on fiction or on poetry and drama. Prerequisite: 6 hours of English. May be repeated for credit when topic varies. Three lecture hours a week. Credit: Three hours.

WS 4493. Feminist Theories. Explores the diversity of feminist theories and their applications to the social, political, and intellectual contexts of women's lives. Includes consideration of historical context for the development of the theoretical perspectives and critiques their analytical strengths and weaknesses. Attention also give to particular theorists. Prerequisite: WS 2013. Three lecture hours a week. Credit: Three hours.

WS 4913. Independent Study. Individual study of topics in feminist theory, scholarship, or practical areas consistent with student interests and needs. Contract between student and professor expected. Prerequisite: Minor in Women's Studies and instructor's approval. Credit: Three hours.

Graduate Courses

Please refer to the Graduate Catalog or department website for information about our graduate courses.

*Meets core curriculum requirement for humanities.

College of Professional Education

Dean: L. Nan Restine, Professor

Location: SH 202

Telephone: (940) 898-2202

Fax: (940) 898-2209

Website: www.twu.edu/cope

The programs of the College of Professional Education design ways to place knowledge in service to society. Four components comprise the College: the School of Library and Information Studies, the Department of Family Sciences, the Department of Reading, and the Department of Teacher Education.

Programs leading to the Bachelor of Arts, Bachelor of Science, Master of Arts in Teaching, Master of Arts, Master of Science, Master of Education, Master of Library Science, Master of Arts in Science, and Doctor of Philosophy degrees are available through the College. Teacher Education programs in the College are accredited by the State Board for Educator Certification (SBEC). Master's programs in Library and Information Studies are accredited by the American Library Association.

Undergraduate studies in teacher education are offered in an Interdisciplinary Studies major, with academic specializations in bilingual or English as a second language (ESL), special education and English, language arts and reading. Other undergraduate degrees are available in childhood development and family and consumer sciences.

The College of Professional Education offers graduate degrees in library science, child development, family studies, family therapy, counseling and development, reading, special education, educational administration, teaching, learning and curriculum, and early childhood education.

The College of Professional Education also offers programs preparatory to teacher certification and certification for school librarians, principals, superintendents, counselors, reading specialists, master reading teachers, and diagnosticians as authorized by the State Board for Educator Certification.

Department of Family Sciences

Chair: Larry LeFlore, Professor

Location: HDB 115

Telephone: 940.898.2685

Faculty: Professors J. Engelbrecht, G. Jennings, L. Ladd, L. LeFlore, J. Martin, K. Petty, S. Snider; Associate Professors S. Adams, J. Armstrong, L. Brock, R. Fannin, S. Hwang, S. Jackson, L. Moore; Assistant Professors R. Buckley, N. Gillum, M. Green, E. McCarroll, J. Muro, L. Muro, K. Rose, B. Vittrup; Lecturer: S. McClintic.

The Department of Family Sciences offers programs leading to the Bachelor of Science degree in Child Development, Child Development Child Life Specialist, Child Development in preparation for a Master's in Occupational Therapy, Child Development in preparation for Doctorate in Physical Therapy, Family Studies, Family Studies in preparation for a Master's in Occupational Therapy, and Family and Consumer Sciences in preparation for Teacher Certification. The Department offers early childhood education classes in support of the EC-6 Generalist Certification program offered through Interdisciplinary Studies.

Master of Science degrees are offered in Child Development, Early Childhood Education (M.Ed.), Counseling and Development - School; Counseling and Development - Community, Counseling and Development Dual Degree with Music (with a specialization in music therapy), Family Studies, and Family Therapy. A Master of Education is offered in Early Childhood Education. Doctoral degrees are offered in Early Childhood Development and Education (Ph.D.), Family Studies (Ph.D.) and Family Therapy (Ph.D.).

The Department of Family Sciences operates the Counseling and Family Therapy Clinic (CFTC) located in the Human Development Building. The CFTC is staffed by graduate students in Family Therapy and Counseling and Development programs under the supervision of faculty. The Center specializes in providing counseling and therapy to children, adults, couples, and families who seek help from mental health professionals.

Completion of the B. S. degree with a major in Family and Consumer Sciences satisfies the course requirements for a Standard Certificate in Family and Consumer Sciences.

The Department of Family Sciences and the School of Occupational Therapy have a partnership through which students may major in either Child Development or Family Studies in the Department of Family Sciences while also completing 24 hours of electives with an emphasis in Occupational Therapy, plus prerequisites. Both undergraduate degrees prepare the student for their Master's in Occupational Therapy.

The Department of Family Sciences and the School of Physical Therapy have a partnership through which students may major in Child Development while completing 28 hours of electives with an emphasis in Physical Therapy. The undergraduate degree prepares the student for entering the Doctoral program in Physical Therapy.

Admission Requirements

Please see the admission section of this catalog.

Undergraduate Degrees

- B.S. in Child Development
- B.S. in Child Development Child Life Specialist
- B.S. in Child Development with Occupational Therapy
- B.S. in Child Development with Physical Therapy
- B.S. in Family and Consumer Sciences (Composite Certification)
- B.S. in Family and Consumer Sciences (Specialized Certification – Hospitality, Nutrition, and Food Sciences)
- B.S. in Family and Consumer Sciences (Specialized Certification – Human Development and Family Studies)
- B.S. in Family Studies
- B.S. in Family Studies with Occupational Therapy

The Bachelor of Science Degree in Child Development (120 hours)

General Description:

The Child Development program prepares students for a variety of professional roles focused on serving the needs of children and their families. Potential roles include the following: parent education, teaching young children, administration of children's programs, public and private agencies focused on children and families, early childhood intervention, child life specialist, and other roles requiring similar knowledge and skills. Detailed degree plans are available from the Family Sciences office.

The Child Development curriculum has been approved by the National Council on Family Relations (NCFR) as meeting the Standards and Criteria required for the Provisional Certified Family Life Educator (CFLE) designation. Relevant course work for each of the 10 family life substance areas needed for the Provisional Certified Family Life Educator designation is included in the degree program and marked with an asterisk. Graduates qualify to complete the abbreviated CFLE application process.

B.S. Child Development**FIRST YEAR**

First Semester	Second Semester
ENG 1013 Composition..... 3	ENG 1023 Composition 3
HIST 1013 U.S. History to 1865..... 3	HIST 1023 U.S. Hist 1865 to Present.....3
Natural Science (core approved)..... 3-4	Natural Science (core approved) 3-4
FS 1511/13 Human Development..... 4	CSCI 1403 First Course in Comp. OR
FS 1603 Child in Family & Community 3	CSCI 2433 Microcomputer Appl. OR
	CSCI 3002 Adv. Comp. Tech. * 2-3
	FS 2513 Early Childhood Development....3
	FS 1001 Seminar in Family Sciences.....1
Total Hours 16-17	Total Hours 15-17

SECOND YEAR

First Semester	Second Semester
GOV 2013 U.S. Government..... 3	GOV 2023 Texas Government 3
Math 1013 Quantitative Literacy 3	FS 3523 Care & Ed. of Children *** 3
Humanities course (core approved) 3	FS 2523 Wellness of the Young Child.....3
Visual/Performing Arts 3	FS 2563 Childhood Guidance 3
Social/Behavioral Science 3	FS 4903 Child Life 3
Total Hours 15	Total Hours 15

THIRD YEAR

First Semester	Second Semester
FS 3403 Concept Development 3	MC/Women's Studies (WS 2013) *** 3
FS 3613 Family Crisis 3	FS 4583 Parenting Issues & Ed..... 3
FS 2503 Dev. of Infants & Toddlers 3	FS 3563 Creative Arts & Literature..... 3
FS 3583 Administration and Mgmt..... 3	FS 4543 Developmental Sexuality 3
HS 3033 Medical Terminology..... 3	Math (core approved) 3
Total Hours 15	Total Hours 15

FOURTH YEAR

First Semester	Second Semester
FS 4933 Practicum in Child Life I ** 3	FS 3513 Childhood and Adolescence..... 3
COMS 4553 American Sign Language.. 3	FS 4943 Practicum in Child Life II ** 3
FS 4503 Program Planning in EC..... 3	FS 5163 Play Therapy OR
Electives (upper level) 6	FS 5183 Grief and Bereavement OR
	FS 5593 Play, Dev. of Learner..... 3
	Elective (upper level) 5
Total Hours 15	Total Hours 14

Total hours for Major /Dept. courses – 65

Total hours for electives - 11

Total hours for degree - 120 to 123

* Meets Computer Literacy competency

** Meets Oral Communication Competency

*** Meets Global Perspective graduation requirements

All students must complete six credit hours in approved Global Perspectives courses, either in the core or major courses (graduation requirement).

Certified Family Life Educator

The B.S. in Child Development has been approved by the National Council on Family Relations as meeting the Standards and Criteria required for the Provisional Certified Family Life Educator (CFLE) designation. Courses marked with an asterisk must be completed in order to qualify for the abbreviated CFLE application process.

The Bachelor of Science Degree in Child Development with an emphasis on Child Life (120 hours)

This specialized Child Development program prepares students to compete for placement in Child Life Internships. Students choose elective courses designed to provide the specialized knowledge needed to work with children in health care settings.

The Bachelor of Science Degree in Child Development in preparation for a Master's in Occupational Therapy (120 hours)

General Description:

This specialized Child Development program prepares students to earn a Master's in Occupational Therapy and enter the professional arena in less time. Students in the B.S.-Masters of Occupational Therapy (MOT) Fast Track program apply to the Graduate School in the fall of their junior year. Students who complete the required courses, have a prerequisite cumulative GPA of 3.0, and receive a high recommendation from a 20-hour observation with an occupational therapist may make an application to the OT Master's program. If accepted, the senior year is devoted to Occupational Therapy. Admission to the Occupational Therapy program is competitive and separate from admission to the university. A predetermined number of students can be accepted based on availability of clinical facilities, space and faculty. The student graduates with a B.S. in Child Development with an emphasis in Occupational Therapy. The student completes an additional 26 credit hours of classroom courses and a supervised 6-month internship to finish the MOT degree. Detailed degree plans are available from the Family Sciences office or at the department's website: www.twu.edu/cope/famsci.

The Bachelor of Science Degree in Child Development with emphasis in Physical Therapy (120 hours)

General Description:

This specialized Child Development program prepares students to begin an entry-level Doctor of Physical Therapy. A graduate degree is required to enter a career as a physical therapist. The student graduates with a B.S. in Child Development with an emphasis in Physical Therapy. Admission to the Physical Therapy program is competitive and separate from admission to the university. A predetermined number of students can be accepted based on availability of clinical facilities, space, and faculty. See website for additional information: www.twu.edu/cope/famsci.

The Bachelor of Science in Family and Consumer Sciences in Preparation for Composite Teacher Certification (120 hours)

General Description:

The Family and Consumer Sciences (FCS) major is a broad program which includes preparation in general University requirements and in specific subject matter areas of family and consumer sciences including family life, child development, food and nutrition, housing and household equipment, management, fashion and textiles, and consumer sciences. Successful completion of this major leads to certification to teach Family and Consumer Sciences in the secondary schools, grades 6-12.

Admission to the Teacher Education Program is required before professional education classes can be taken. For additional information, see the College of Professional Education section in this catalog.

All undergraduate students seeking initial Texas teacher certification through Texas Woman's University must complete the Education Minor. Students not seeking FCS teacher certification should select a new major area of study.

Required Family and Consumer Sciences Major Courses (39 hours)

(GPA of 2.75; "C" or better required in each course)

FS 3513 Childhood and Adolescence

FS 3633 Older Persons and the Family OR

FS 3613 Crisis in American Family

FS 3713 Family Housing

FS 3723 Field Experience in FCS Occupations*

FS 4233 Home Interiors for Family Needs*

FS 4523 Family Development*

FS 4543 Developmental Sexuality*

FS 4583 Parenting Issues*

FS 4603 Occupational Issues in Family Sciences*

FS 4703 Methods of Teaching FCS
 FS 4713 Family Economics OR
 FS 4733 Family Financial Planning
 FS 4773 Family Resource Management*
 FS 4803 Public Policy* OR
 FS 4103 Issues and Trends in Family Sciences

Related Studies (17 hours)

(GPA of 2.75; “C” or better required in each course)

CSCI 3002 Advanced Computing Technology
 EDSP 4203 Learners with Exceptionalities
 FT 1013 Apparel Construction Techniques
 NFS 1301 Food Preparation Principles (lab)
 NFS 1302 Food Preparation Principles
 NFS 2343 Nutritional Management for Family and Child
 READ 3013 Literacy and Learning Across Curriculum

Minor (20 hours)

(GPA of 2.75; “C” or better required in each course)

EDUC 2003 Schools and Society
 EDUC 3003 Learning Theory & Development
 EDUC 3482. Teaching Diverse Learners through Technology Integration
 EDUC 4113 Design & Implementation of Assessment & Instruction
 EDUC 4243 Classroom Environment & Management
 EDUC 4__6 Student Teaching in Family and Consumer Sciences

The Bachelor of Science Degree in Family and Consumer Sciences in Preparation for Specialized Teacher Certification – Hospitality, Nutrition, and Food Science (120 hours)

General Description:

The Family and Consumer Sciences Specialized Teacher Certification in Hospitality, Nutrition, and Food Sciences offers the opportunity to teach only hospitality, nutrition, and food science courses at grades 8-12 in Family and Consumer Science’s Education.

Admission to Teacher Education requires acceptable scores on assessment exam and student has been admitted to the Teacher Education Program. No professional education classes can be taken until acceptable assessment exam scores are achieved. For additional information, see the College of Professional Education in this catalog.

All undergraduate students seeking initial Texas teacher certification through Texas Woman’s University must complete the Education Minor. Students not seeking FCS teacher certification should select a new major area of study. See department website: www.twu.edu/cope/famsci.

The Bachelor of Science in Family and Consumer Sciences in Preparation for Specialized Teacher Certification – Human Development and Family Studies (120 hours)

General Description:

The Family and Consumer Sciences Specialized Teacher Certification in Human Development and Family Studies offers the opportunity to teach only human development and family studies courses at grades 8-12 in Family and Consumer Science's Education.

For additional information on admission to the Teacher Education Program, see the College of Professional Education in this catalog.

All undergraduate students seeking initial Texas teacher certification through Texas Woman's University must complete the Education Minor. Students not seeking FCS teacher certification should select a new major area of study. See department website for additional information: www.twu.edu/cope/famsci.

The Bachelor of Science Degree in Family Studies (120 hours)

General Description:

The Bachelor of Science degree in Family Studies is a broad human services degree which may lead to employment working with families in social service agencies ranging from child to geriatric services to church and family planning agencies. The degree is especially appropriate for work in the business world when combined with a business minor or a second major in business. The emphasis upon developing interpersonal skills is advantageous in the business arena. It is an appropriate major for those interested in graduate degrees leading to careers in family therapy or family life education.

The Family Studies curriculum has been approved by the National Council on Family Relations (NCFR) as meeting the Standards and Criteria required for the Provisional Certified Family Life Educator (CFLE) designation. Relevant course work for each of the 10 family life substance areas needed for the Provisional Certified Family Life Educator designation is included in the degree program and marked with an asterisk. Graduates qualify to complete the abbreviated CFLE application process.

B.S. in Family Studies

(GPA of 2.75; "C" or better required in major courses.)

FIRST YEAR

First Semester	
ENG 1013 Composition I	3
HIST 1013 US History to 1865	3
Math 1013 Quantitative Literacy	3
Natural Science (core approved)	3-4
Social/Behavioral Science	3

Total Hours 15-16

Second Semester	
CSCI 1403 First Course in Comp. OR	
CSCI 2433 Microcomp. Apps. OR	
CSCI 3002 Adv. Comp. Tech.*	2-3
ENG 1023 Composition II	3
FS 1603 Child in the Family & Comm.	3
HIST 1023 US History 1865 to Pres.	3
Natural Science (core approved)	3-4

Total Hours 14-16**SECOND YEAR**

First Semester	
FS 1511/13 Human Development	4
GOV 2013 US Government	3
ENG Literature course	3
Math (core approved)	3
Visual/Performing Arts	3

Total Hours 16

Second Semester	
FS 2003 Div. in Contemp. Families***	3
FS 2513 Early Childhood Development	3
FS 3513 Childhood & Adolescence OR	
FS 2503 Dev. of Infants & Toddlers	3
GOV 2023 Texas Government	3
M/C Women's Studies (WS 2013)	3

Total Hours 15**THIRD YEAR**

First Semester	
FS 3613 Family Crisis	3
FS 3733 Family Life and Consumer Ed.	3
FS 4523 Family Development	3
FS 4713 Family Economics OR	
FS 3713 Family Housing	3
Elective	3

Total Hours 15

Second Semester	
FS 3633 Older Persons	3
FS 4533 Communications and Family	3
FS 4543 Developmental Sexuality	3
FS 4733 Family Financial Planning	3
Elective	3

Total Hours 15**FOURTH YEAR**

First Semester	
FS 4103 Issues & Trends in Fam. Sci.	3
FS 4603 Occupational Issues	3
FS Family Resource Management	3
FS 4933 Practicum I **	3
Elective	3

Total Hours 15

Second Semester	
FS 4803 Public Policy	3
FS 4583 Parenting Issues & Education	3
FS 4943 Practicum II **	3
Elective (3 to 6 as needed)	6

Total Hours 15

Total hours for Family Studies courses: 61

Total hours for electives: 12-15

Total hours for degree: 120-123

* Meets Computer Literacy competency.

** Meets Oral Communication competency.

*** Meets Global Perspectives graduation requirement.

Suggested areas of emphasis utilizing elective courses:

Administration of Child and Family Agencies (12 hours)

BUS 3113 Principles of Marketing

BUS 4153 Services Marketing

BUS 3273 Personnel Management OR

BUS 4443 Small Business Management

FS 3583 Administration & Management of Early Childhood Environments (included in MAJOR)

Conflict Resolution (12 hours)

FS 4913 Basic Negotiation OR

FS 4913 Conflict Resolution

FS 4913 Divorce Mediation

FS 4913 Advanced Family Mediation

FS 4913 Advanced Communication and Mediation Skills

Practicum in conflict resolution (See FS 4933 in MAJOR)

The Bachelor of Science in Family Studies in preparation for a Master's in Occupational Therapy (120 hours)

General Descriptions:

This specialized Family Studies program prepares students to earn a Master's in Occupational Therapy and enter the professional arena in less time. Students in the BS-Masters of Occupational Therapy (MOT) Fast Track program apply to the Graduate School in the middle of their junior year. Students who complete the required courses, have a prerequisite cumulative GPA of 3.0, and receive a high recommendation from a 20-hour observation with an occupational therapist may make application to the OT Master's Program. The senior year is devoted to occupational therapy. The student graduates with a BS in Family Studies with an emphasis in Occupational Therapy. The student completes an additional 26 credit hours of classroom courses and a supervised 6-month internship to finish the MOT degree. Detailed degree plans are available from the Family Sciences office or at www.twu.edu/cope/famsci.

Minors Available in the Department of Family Sciences

Child Development and Family Studies Minor

An academic minor in Child Development or Family Studies requires 18 semester hours of study in child development. Of these, six hours must be junior or senior level courses.

Areas of Emphasis Utilizing Elective Courses:

Students may use 12 elective hours toward specialization in Administration of Child and Family Agencies or Conflict Resolution. See website: www.twu.edu/cope/famsci.

Family Sciences Undergraduate Courses

FS 1001. Seminar in Family Sciences. Qualities which identify family sciences as a profession; historical aspects; mission; interrelationship of specialization; career options. One lecture hour a week. Credit: One hour.

FS 1511. Human Development Laboratory. Structured observation and participation with humans from infancy through adulthood. Corequisite: FS 1513. Three laboratory hours a week. Credit: One hour.

FS 1513. Human Development. Development from infancy through senescence; familial and societal influences; varied theoretical perspectives. Corequisite: FS 1511. Three lecture hours a week. Credit: Three hours.

FS 1603. Child in the Family and Community. (TECA 1303) Effective ways for home, school, and community to contribute to the optimal development of a child. Three lecture hours a week. Credit: Three hours.

+*FS 2003. Diversity in Contemporary Families: A Global Perspective. Examination of diverse family systems and structures focusing on cultural, demographic, and historical influences. Analysis of differences and similarities with respect to family form and ethnicity. Three lecture hours a week. Credit: Three hours.

FS 2503. Development of Infants and Toddlers. Prenatal development; the physical, mental, emotional, and social development of infants and toddlers, birth to 36 months of age; the care and guidance of infants and toddlers. Three lecture hours a week. Credit: Three hours.

FS 2513. Early Childhood Development. (TECA 1354) Physical, mental, emotional, and social growth of the child from three through eight years. Three lecture hours a week. Credit: Three hours.

FS 2523. Wellness of the Young Child. Introduction to factors that impact the well-being of the young child including safety, healthy behavior, fitness, nutrition, and food. Focus on local and national standards and legal implications of relevant policies and regulation for young children birth through eight. Three lecture hours a week. Credit: Three hours.

FS 2563. Childhood Guidance. Patterns and theory of behavior and guidance in relation to developmental stages of childhood; includes 15 hours of observation in an early childhood program. Three lecture hours a week. Credit: Three hours.

FS 3403. Concept Development in Early Childhood Programs. Appropriate cognitive and affective concepts, activities, and programs for young children; includes 24 hours field experience in an early childhood classroom. Prerequisites either FS 2563 and/or FS 2513. Three lecture hours a week. Credit: Three hours.

*Must be completed for CFLE application.

+Satisfies global perspectives graduation requirement.

FS 3513. Childhood/Adolescence. Physical, mental, emotional, and social growth of the individual from six through adolescence; guidance techniques. Three lecture hours per week. Credit: Three hours.

***FS 3523. The Care and Education of Children: A Global Perspective.** How social or political systems, geographic locale and cultural values shape views of children and influence their care for and education. Emphasis on differences in attitudes and values when comparing western and non-western perspectives. Three lecture hours a week. Credit: Three hours.

FS 3563. Creative Arts and Literature for Young Children. An exploration of theory, practice, and materials for teaching young children music, movement, visual arts, and literature through process-oriented experiences to support divergent thinking. Prerequisite: FS 2563 and FS 2513. Three lecture hours and one and one-half laboratory hours a week. Credit: Three hours.

FS 3583. Administration and Management of Early Childhood Environments. Administration and management skills and techniques needed by professionals providing quality learning environments for groups of young children and encouraging parent support/involvement; includes 24 hours of directed observation and participation in varied programs for young children. Three lecture hours and one and one-half laboratory hours a week. Credit: Three hours.

FS 3613. Crisis in the American Family. Special situations affecting the family system: alcoholism, chronic illness, death, delinquency, divorce, drug dependence, mental retardation, mental illness, and mobility. Three lecture hours a week. Credit: Three hours.

FS 3633. Older Persons and the Family. Psychological characteristics of aging persons; family implications; developmental needs; interactions with children and extended family; attitudes toward sex, death, independence/dependence; legal and ethical concerns. Three lecture hours a week. Credit: Three hours.

FS 3663. Foundations of Early Childhood Education. (TECA 1311) Theoretical and historical foundations of early childhood education programs; preschool and kindergarten goals, childcare, staffing, management, and evaluation; trends and issues including legal mandates, special needs, and teacher responsibilities. Three lecture hours a week. Credit: Three hours.

FS 3713. Family Housing. Housing requirements for today's families; principles of house planning; understanding of basic construction and services; procedures of home financing; consideration of community planning, zoning, and orientation in choosing location. Three lecture hours a week. Credit: Three hours.

FS 3723. Field Experience in Family and Consumer Sciences Occupations. Supervised field experience/teaching in family and consumer sciences occupations in work-based learning and safety. One lecture hour a week; eight lab hours a week. Credit: Three hours.

FS 3733. Family Life and Consumer Education. Organization, planning, and implementation of family life and consumer education programs. Emphasis placed on curriculum, methods of delivery, resources, evaluation, and professional ethics. Three lecture hours a week. Credit: Three hours.

*Satisfies global perspectives graduation requirement.

FS 4103. Issues and Trends in Family Sciences. In-depth study of issues and trends in Family Sciences. May be repeated when issues differ. Three lecture hours a week. Credit: Three hours.

FS 4233. Applied Design for Home and Family. Use of design principles and available interior materials to achieve physically, psychologically, and aesthetically healthy home interiors for families across the lifespan. Three lecture hours a week. Credit: Three hours.

FS 4503. Program Planning in Early Childhood. Program planning techniques, evaluation of individual children's growth and development, and consideration of ethical issues; includes 24 hours of field experience in an early childhood program. Prerequisites: FS 2513 and FS 2563. Three lecture hours and one and one-half laboratory hours a week. Credit: Three hours.

FS 4523. Family Development. Development and relationships of individual family members through the stages of the family life cycle and family crises. Three lecture hours a week. Credit: Three hours.

FS 4533. Communication and the Family. Recognition, development, and utilization of effective communication in a family milieu. Three lecture hours a week. Credit: Three hours.

FS 4543. Developmental Sexuality. Sexuality across the lifespan with emphasis on sex education within the family. Three lecture hours a week. Credit: Three hours.

FS 4583. Parenting Issues. Contemporary issues in parenting, including effective resource materials for parent education. Three lecture hours a week. Credit: Three hours.

FS 4603. Occupational Issues in Family Sciences. Investigation of current trends, options, and opportunities in labor force for Family Sciences majors. Analysis of career development techniques and ethical issues. Emphasis on interaction of work and family. Development of professional portfolio. Prerequisite: Junior or senior standing. Three lecture hours a week. Credit: Three hours.

FS 4703. Methods of Teaching in Family and Consumer Sciences. In-depth study of teaching methods utilized in family and consumer science education for teacher certification. Consideration is given to learning styles, daily planning, delivery and management techniques, career and technology, and professional ethics. Three lecture hours a week. Credit: Three hours.

FS 4713. Family Economics. The family as a consuming unit. Development of consumer skills in the market place. Federal protection laws and agencies. Three lecture hours a week. Credit: Three hours.

FS 4733. Family Financial Planning. Personal finances for the family, including spending plans, credit, savings, insurance, taxes, and investments. Three lecture hours a week. Credit: Three hours.

FS 4773. Family Resource Management. Principles of organization and management; use of resources; decision-making; work simplification; time management; application of management principles to family problems; conflict management. Prerequisite: Senior standing. Three lecture hours a week. Credit: Three hours.

FS 4803. Public Policy: Family Sciences Perspectives. Process of policy formation, implementation, and evaluation. Reciprocal relationship between family functioning and public policy. Analysis of impact and effectiveness of public policy for families and consumers. Roles of family sciences professionals in influencing policy. Three lecture hours a week. Credit: Three hours.

FS 4911. Independent Study. Intensive study of a topic of individual or professional interest in Family Sciences. Credit: One hour.

FS 4913. Independent Study. Intensive study of a topic of individual or professional interest in Family Sciences. Credit: Three hours.

***FS 4933. Practicum in Family Sciences I.** Supervised field experience in family sciences. Clinical and educational experiences working with families. Prerequisite: permission of instructor. Ten clinical hours a week. Credit: Three hours. May be repeated for up to 6 hours.

FS 4943. Practicum in Family Sciences II. Supervised field experience in family sciences. Clinical and educational experiences working with families. Prerequisite: permission of instructor. Ten clinical hours a week. Credit: Three hours. May be repeated for up to 6 hours.

Graduate Courses

Please refer to the Graduate Catalog or the department website for information about our graduate courses.

*Satisfies core oral communication requirement.

School of Library and Information Studies

Director: Ling H. Jeng Professor

Location: SH 404

Telephone: (940) 898-2602

e-mail: slis@twu.edu

Faculty: Professors L. Jeng, K. Swigger, S. Vardell; Associate Professor L. Akin; Assistant Professors J. Battle, M. Cahill, E. Curry, J. Golden, G. Hoffman, H. Lee, E. McElrath, J. Moreillon, M. Yi; Lecturer C. Perryman.

The School of Library and Information Studies administers the degree programs in Library Science. The School of Library and Information Studies offers complete programs leading to the degrees of Master of Arts, Master of Library Science, and Doctor of Philosophy in Library Science. The School Librarian Certificate prepares students for library certification in public schools in Texas. The Master of Library Science is the first professional degree. The Master of Library Science degree requires 36 hours. The School prepares students for placement in a variety of types of information centers and libraries. It is the oldest continuously accredited master's program in the Southwest by the American Library Association.

Students will find exceptional opportunities for developing skills in their chosen field through classroom work, through experience on department-sponsored media, and through internships.

The School offers undergraduate courses in support of other programs but does not offer a bachelor's degree in Library Science.

Library Science Undergraduate Courses

LS 3002. Information Literacy. Techniques for accessing, evaluating, and using information in multiple contexts and formats, including text, visual images, and electronic information. Information skills and strategies needed by children. One hour lecture/two hours lab a week. Credit: Two hours.

LS 3013. Library Materials for Children. Selection, evaluation, and use of recreational and informational materials for children reflecting our multicultural society. Knowledge gained through reading, listening to, and viewing various types of media. Three lecture hours a week. Credit: Three hours.

Graduate Courses

For graduate courses in Library and Information Studies, see the Graduate Catalog. For a current list of courses visit the school's website at <http://www.twu.edu/slis/course/catalog.htm>

Department of Reading

Chair: Margaret Compton, Professor

Location: MCL 907

Telephone: (940) 898-2227

E-mail: reading@mail.twu.edu

Fax: (940) 898-2224

Website: www.twu.edu/reading

Faculty: Professors N. Anderson, C. Briggs, M. Compton, A. Simpson, N. White; Associate Professors L. Albright, Y. Rodriguez, P. Watson; Assistant Professor C. Haag.

The Department of Reading offers coursework toward all initial teaching certificates. At the graduate level, the Department offers complete programs leading to the degrees of Master of Arts, Master of Education, Doctor of Philosophy, and Doctor of Education. A program leading to the Texas Master Reading Teacher certification is also available. All degree and certification programs in the Department of Reading at the baccalaureate, master's, and doctoral levels are fully accredited by the Texas Education Agency/State Board for Educator Certification.

Undergraduate courses in the Department of Reading are designed to provide practice and theory in reading for students seeking initial certification at EC-6, 4-8, and 8-12 grade levels.

Admission Requirements

Please see the Admission section of this catalog.

Undergraduate Degrees

Please consult the information on degree requirements of the College of Professional Education.

Undergraduate Courses

READ 1003. Fundamentals of College Reading and Learning. Designed for students who need to improve reading competencies in the area of vocabulary, comprehension, and study strategies. Credit: Three hours. May be repeated. Hours earned will not count toward graduation requirements.

READ 3013. Literacy & Learning Across the Curriculum. Study and practice of theory, content, and methods for integrating reading and related literacy skills into content and related area instruction. Emphasizes interrelatedness of literacy processes and their importance in all instruction and learning; strategies for improving text comprehension, developing vocabulary, discussing and writing to learn, and using study and inquiry skills with a variety of texts. Three lecture hours and one and one-half laboratory hours a week. Credit: Three hours.

READ 3423. Literacy Foundations 4 – 8. Guidance and practice in planning and organizing for instruction in reading, writing, listening, speaking, viewing, and visually representing in grades four through eight. Reading and language arts theory, content, and methods. Prerequisite: Junior standing and meet requirements for admission to Teacher Education in College of Professional Education. Three lecture hours and one and one-half laboratory hours a week. Credit: Three hours.

READ 3433 Literacy Foundations EC – 6. Guidance and practice in planning and organizing for instruction in reading, writing, listening, speaking, viewing, and visually representing in early childhood through intermediate grades. Reading and language arts theory, content and methods. Prerequisite: Junior & meet requirements for admission to Teacher Education. Three lecture hours and one and one-half laboratory hours a week. Credit: Three hours.

READ 3443. Reading for Diverse Learners. Analysis and practice in developing reading instruction in elementary classrooms to provide for the culturally different learner and the student with special needs. Prerequisites: READ 3433. Three lecture hours and one and one-half laboratory hours a week. Credit: Three hours.

READ 3463. Strategic Learning Through Text. Guidance and practice in assisting students in using appropriate strategies for accessing meaning of various forms of text. Explores ways to help students apply strategies for using reading, writing, and studying as tools for appreciating, knowing, and understanding. Prerequisite: READ 3423. Three lecture hours and one and one-half laboratory hours a week. Credit: Three hours.

READ 3483 Language and Literacy, EC – 6. Examines relationship between language and literacy development and factors that enable teachers to establish a context for language and literacy learning for diverse learners. Prerequisite: READ 3433. Three lecture hours and one and one-half laboratory hours a week. Credit: Three hours.

READ 4383. Phonological and Orthographic Principles in Reading. Define and apply understanding of the phonological and orthographic language systems as they specifically relate to literacy development. Design assessment and instruction related to children's learning of letters, sounds, and their relationship; word-analysis;

and spelling. Prerequisite: READ 3433 or 3423. Three lecture hours and one and one-half laboratory hours a week. Credit: Three hours.

READ 4413. Integrated Language Arts for Grades 4-8. Instruction and practice in the teaching of reading, writing, speaking, listening, viewing, and visually representing for teachers of early adolescents. This course includes a strong emphasis on integrating the language arts through process writing. Three lecture hours and one and one-half laboratory hours a week. Prerequisite: READ 3423. Credit: Three hours.

READ 4433. Integrating Computers into the Reading/Language Arts Curriculum. Practical classroom applications for reading and language arts. Types of instructional programs using the computer for writing activities in language arts, evaluation of software, and teacher utilities are some of the topics covered. Prerequisite: READ 3413, 3433. Three lecture hours and one and one-half laboratory hours a week. Credit: Three hours.

***READ 4453. Literacy Assessment & Instruction EC – 6.** Examines characteristics and uses of a wide variety of evaluation and assessment tools. Students analyze data in order to plan appropriate instruction, identify children in need of in-depth intervention and learn to communicate student literacy outcomes to various audiences. Prerequisite: READ 3433. Addresses university Core Competency in Oral Communications requirement.

READ 4493. Reading and Language Arts Across the Curriculum: EC-6. Guidance and practice for helping students develop strategies in reading comprehension, fluency and writing to learn, including use of various text organizers and graphics. Use of multiple sources of information and technology and integration of content areas. Prerequisite: READ 3433. Three lecture hours and one and one-half laboratory hours a week. Credit: Three hours.

***READ 4563. Reading Assessment and Instruction: Grades 4-8.** Examines characteristics and uses of formal and informal literacy assessment tools for students in grades 4-8; strategies for incorporating results into literacy instruction; state content and performance standards for literacy; and strategies for providing in-depth intervention. Prerequisite: READ 3423. Three lecture hours and one and one-half laboratory hours a week. Credit: Three hours.

READ 4903. Selected Topics
 READ 4911. Independent Study
 READ 4913. Independent Study

Graduate Courses

Please refer to the Graduate Catalog or the department website for information about our graduate courses.

*Satisfies oral communication core requirement.

Department of Teacher Education

Chair: Jane Pemberton, Associate Professor

Location: SH 308

Telephone: (940) 898-2271

Fax: (940) 898-2270 Web: <http://www.twu.edu/teacher-education>

Faculty: Professors J. Barbour, M. Cowart, P. Dam, L. Kinnison, J. Rademacher, N. Restine, J. Whitworth, M. Wiebe ; Associate Professors G. Anderson, J. Pemberton, C. Sanchez; Assistant Professors D. Allen, K. Dunlap, R. Fredrickson, H. Hansen-Thomas, S. McMahan, L. Sourdoot, T. Starrett, L. Trujillo-Jenks.

Students interested in becoming teachers in Texas should see the College of Professional Education section of the catalog.

The Department of Teacher Education offers courses in support of undergraduate, graduate, and post-baccalaureate teacher preparation, and graduate studies in the areas of education, bilingual or English as a second language (ESL) education, special education and educational administration.

Graduate degrees offered include: Master of Arts, Master of Education, Master of Arts in Teaching, and Doctor of Philosophy.

To meet the state requirements for teacher certification, undergraduate students select a major in the College of Professional Education (Bachelor of Science in Interdisciplinary Studies), the College of Arts and Sciences or the College of Health Studies, and complete a minor in Education.

Admission Requirements

Please see Admission section of this catalog.

Please see Admission to the Teacher Education Program in the College of Professional Education section of this catalog.

Undergraduate Degree

B.S. in Interdisciplinary Studies

General Description

The Interdisciplinary Studies major is required for students seeking certification in Early Childhood – Grade 6 Generalist, Bilingual or ESL or Special Education; Grade 4-Grade 8 Generalist, Bilingual or ESL, or Special Education, and Grade 4-Grade 8 English Language Arts and Reading. No grade below a “C” will be accepted for any course in the major or minor.

Students preparing for teacher certification in other all-level or content-specific areas select a major in the College of Arts and Sciences or the College of Health Studies. All undergraduate teacher certification candidates complete a minor in Education.

B.S. in Interdisciplinary Studies - 4-8 Generalist (121 hours)

FIRST YEAR

First Semester		Second Semester	
ENG 1013 Composition I	3	ENG 1023 Composition II.....	3
HIST 1013 US History 1492-1865	3	HIST 1023 U.S. History 1865-Present.....	3
GOV 2013 U.S. National Gov.	3	MATH 1303 Elementary Analysis I.....	3
MATH 1013 Quantitative Literacy	3	CHEM 1111 & 1113 Chemical Prin.	4
BIOL 1012 & 1011 Human Biology.....	4	Visual/Performing Arts (core)	3
Total Hours	16	Total Hours	16

SECOND YEAR

First Semester		Second Semester	
ENG XXX3 (Literature)	3	ENG 3203 Adv Grammar & Comp	3
GOV 2023 Texas Government	3	HIST 3713 Texas History.....	3
MATH 1543 Math Concepts III	3	MATH 1553 Math Concepts IV	3
SCI 2113 Earth Science	3	PHYS 1131 & 1133 Princ of Physics	4
*CSCI 3002 Adv Computer Tech.	2	FS 3513 Adolescent Development	3
SOCI 1013 Intro into Sociology	3		
Total Hours	17	Total Hours	16

THIRD YEAR

First Semester		Second Semester	
ENG 3243 Lit. Analysis & Criticism	3	MATH 4103 Prob Solv in Elem Grades....	3
MATH 4003 Math Concepts in Educ	3	READ 3463 Strategis Lrning Thru Text....	3
KINS 3583 or KINES 1091 & 1902	3	EDUC 3482 Teaching Diverse	
LS 3013 Library Materials for Children	3	Learners through Technology Integ.	2
EDUC 2003 Schools and Society	3	EDUC 3003 Learning Theory and Dev....	3
READ 3423 Read & Lang Arts: Found. 3		WS 2013 Intro to MC Wms Studies	3
		SOCI 3273 World Geography	3
Total Hours	18	Total Hours	17

FOURTH YEAR

First Semester		Second Semester	
READ 4563 Reading Assess & Inst.....	3	EDUC 4_ _6 Student Teaching	6
READ 4413 Integrated Lang Arts.....	3		
EDSP 4203 Learners with Except	3		
EDUC 4113 Des & Imp of Inst & Asmt	3		
EDUC 4243 Classroom Env. & Mgmt ..	3		
Total Hours	15	Total Hours	6

*Satisfies computer literacy core requirement.

Oral communications core requirement will be met by approved coursework.

All students must complete six credit hours in approved Global Perspectives courses, either in the core or major courses (graduation requirement).

B.S. in Interdisciplinary Studies - EC-6 Generalist (126 hours)**FIRST YEAR**

First Semester	Second Semester
ENG 1013 Composition I..... 3	ENG 1023 Composition II..... 3
HIST 1013 US History 1492-1865 3	HIST 1023 U.S. History 1865-Present..... 3
MATH 1013 Quantitative Literacy 3	GOV 2013 US Nat. Gov..... 3
SCI 1114 Physical Science I 4	MATH 1023 Intro to Math II..... 3
FS 1603 Child in the Fam and Comm ... 3	SCI 1123 General Life Science 3
	FS 2513 Early Childhood Dev..... 3
Total Hours 16	Total Hours 18

SECOND YEAR

First Semester	Second Semester
ENG (Core Approved Humanities)..... 3	MATH 1533 Math Concepts II..... 3
GOV 2023 Texas Government..... 3	KINS 3583 Health & Phys Activity 3
MATH 1523 Math Concepts I 3	MU 3632 Essentials of Children's Music.. 2
SCI 2113 Earth Science 3	FS 3663 Found. of Early Childhood Edu.. 3
ART 3032 Essentials of Children's Art.. 2	Visual/Performing Arts core 3
SOCI 1013 Intro to Sociology (core)*... 3	EDBE 3003 Ling for ESL Educators 3
Total Hours 17	Total Hours 17

THIRD YEAR

First Semester	Second Semester
HIST 3223 Social Studies..... 3	READ 4453 Literacy Assessment & Inst.. 3
EDUC 2003 Schools & Society 3	LS 3013 Library Materials for Children.... 3
WS 2013 Gender & Social Change 3	EDSP 4203 Learners w/Except 3
READ 3433 Literacy Foundations..... 3	EDUC 3003 Learning Theory and Dev. 3
BIOL 4583 Science in the Classroom.... 3	EDUC 3482 Teaching Div. Learners 2
CSCI 3002 Advanced Computer Tech... 2	READ 4383 Phono & Ortho Princ 3
Total Hours 17	Total Hours 17

FOURTH YEAR

First Semester	Second Semester
READ 3483 Language & Literacy 3	EDUC 4_ _6 Student Teaching 6
READ 4493 Reading Across the Curr.... 3	
EDUC 4113 Des & Imp of Inst. & Asmt 3	
EDUC 4243 Class Env. & Mgmt..... 3	
MATH 1543 Math Concepts III..... 3	
EDBE 3453 Develop 2nd Lang Inst Skills 3	
Total Hours 18	Total Hours 6

*Satisfies global perspectives graduation requirement.

Minor in Education

Education Minor: 20 SCH

EDUC 2003 Schools and Society

EDUC 3003 Learning Theory & Development

EDUC 3482 Teaching Diverse Learners through Technology Integration

EDUC 4113 Design & Implementation of Instruction and Assessment

EDUC 4243 Classroom Environment & Management

EDUC 4__6 Student Teaching or Internship

Special Education

The degree program in special education prepares teachers to work effectively with students with exceptional needs in a variety of instructional arrangements. Students in special education complete a degree program that leads to Early Childhood-Grade 6 or Grades 4-8 Generalist certification and certification in Special Education. Certification in special education may be added to secondary content area or all-level teaching certificates.

Special Education Minor

Special education may be declared as a minor for the bachelor's degree with a minimum of 18 semester hours of special education coursework.

Bilingual or ESL Education

The degree program in bilingual education prepares teachers to work effectively with linguistically diverse students in a variety of settings. Students complete a degree/certification program that leads to Early Childhood – Grade 6 or Grades 4 – 8 Bilingual or ESL Generalist certification. Oral proficiency in English and Spanish is required for the Bilingual Certificate.

Undergraduate Courses

EDBE 3003. Linguistics for ESLEducators. Essentials of English phonology, morphology, and syntax and their pedagogical implications for teaching English as a second language (ESL). Three lecture hours a week. Credit: Three hours.

EDBE 3013. Second Language Assessment and Monitoring. Formal and informal language assessment procedures commonly used with English language learners in K-12 classrooms. Three lecture hours a week. Credit: Three hours.

EDBE 3113. Bilingual Education: Instructional Applications and Materials. Subject matter centers on the teaching of limited English proficiency children with particular emphasis on language assessment techniques, curriculum design, program implementation and materials. Prerequisite: Junior standing, knowledge of Spanish preferred. Three lecture hours a week. Credit: Three hours.

EDBE 3453. Developing Second Language Instructional Skills. Analysis of social and linguistic factors associated with second language learners and the acquisition of the English language. Three lecture hours a week. Credit: Three hours.

EDBE 3643. Foundations of Bilingual Education. A study of the historical, legal and theoretical foundations of bilingual education, including a review of programmatic designs. Prerequisite: Junior standing. Three lecture hours a week. Credit: Three hours.

EDBE 4453. Bilingual Acquisition Processes. Theories and research in bilingualism and its influence on learning and instruction, including developmental characteristics of language acquisition, relationship between bilingualism and cognition, and issues in assessment of bilingual children. Prerequisite: Junior standing. Three lecture hours a week. Credit: Three hours.

EDBE 4913. Independent Study. Independent study of specific problems in bilingual or ESL education. Prerequisite: permission of instructor. Credit: Three hours. May be repeated.

EDSP 4203. Learners with Exceptionalities. Overview of characteristics of exceptional learners and the history, terminology, legal issues, and service provision for students eligible for special education. Three lecture hours a week. Credit: Three hours.

EDSP 4213. Transitions of Individuals with Disabilities. Overview of the transition needs of individuals with disabilities and their families throughout the life span. Focus on family systems, social and cultural contexts, transition services and programs, and major developmental milestones. Prerequisite or corequisite: EDSP 4203. Three lecture hours a week. Credit: Three hours.

EDSP 4223. Characteristics of Students with Learning and Emotional/Behavioral Disorders. Characteristics, identification, and etiology of students with learning and emotional/behavioral disorders focusing on social, emotional, cognitive, and academic development. Prerequisite: EDSP 4203. Three lecture hours a week. Credit: Three hours.

EDSP 4233. Characteristics of Students with Mental Retardation and Multiple Disabilities. Characteristics, identification, and etiology of students with mental retardation and multiple disabilities. Focus on curriculum planning for the physical, social, cognitive, adaptive, behavioral, academic, and vocational needs throughout the life span. Prerequisite EDSP 4203. Three lecture hours a week. Credit: Three hours.

EDSP 4243. Assessment of Students with Learning and Behavioral Difficulties. Theories, instruments, and procedures used in the assessment of students with learning and behavioral difficulties, including norm-referenced, criterion-referenced, and informal procedures. Prerequisite: Six hours of special education courses including EDSP 4203. Credit: Three hours.

EDSP 4253. Instructional Strategies for Students with Disabilities. Instructional strategies and accommodations/modifications for curriculum in oral language, literacy, math, social skills for students with disabilities. Includes cognitive and compensatory strategies for content area curriculum. Field work required. Prerequisite: Six hours of special education courses including EDUC 4203. Corequisite: EDSP 4263. Three lecture hours and one and one-half laboratory hours a week. Credit: Three hours.

EDSP 4263. Behavior Management Strategies for Students with Disabilities. Behavior management strategies, behavior interventions, and social skills development for students with disabilities. Field work required. Prerequisite EDSP 4203. Three lecture hours and one and one-half laboratory hours a week. Credit: Three hours.

EDSP 4913. Independent Study. Independent study of specific problems in special education. Prerequisite: permission of instructor. Credit: Three hours. May be repeated.

EDUC 2003: Schools and Society. Professional roles, responsibilities, and structure of American and Texas educational systems; legal and ethical requirements of professional educators. Importance of family involvement in the educational process. Utilization of effective interaction and communication with families, school personnel and other members of the educational community. Three lecture hours a week. Credit: Three hours. Prerequisites: None.

EDUC 3003: Learning Theory and Development. Overview of the major learning theories and developmental models that impact student learning; instruction that promotes meaningful, integrated, active inquiry, and participation in the learning process. Credit: Three hours. Prerequisites: EDUC 2003, approved admission to the Teacher Education Program. Corequisite: EDUC 3482, Teaching Diverse Learners Through Technology Integration.

***EDUC 3013. Gender and Education.** Same as WS 3013. An interdisciplinary examination of the relationship between gender and education in the U.S. Explores how gender relationships are created, maintained, enacted, and transformed through educational structures, practices and institutions. Three lecture hours a week. Credit: Three hours.

*Satisfies core multicultural women's studies requirement.

EDUC 3482. Teaching Diverse Learners through Technology Integration.

Implementation of effective and appropriate approaches to integrating innovative technology in diverse EC-12 classrooms. Prerequisite: EDUC 2003. Co-requisite: EDUC 3003. Credit: Two hours.

EDUC 4113. Design and Implementation of Instruction and Assessment.

Design and implementation of instruction appropriate for all students; continuous and appropriate assessment; responsive instruction and effective communication techniques; instructional strategies that actively engage students in the learning process; timely, high-quality feedback. Prerequisites: EDUC 2003, EDUC 3003, and EDUC 3482. Corequisite: EDUC 4243 Classroom Environment and Management. Three lecture hours a week. Credit: Three hours. Admission to Teacher Education Program required.

EDUC 4243. Classroom Environment and Management.

Factors which foster a positive climate for learning, equity, and excellence: physically and emotionally safe and productive environments; effective learner-centered strategies for managing student behavior; social, legal, and ethical issues regarding the use of technology within the teaching and learning environment. Corequisite: EDUC 4113. Three lecture hours a week. Credit: Three hours. Admission to Teacher Education Program required.

EDUC 4913. Independent Study.

Independent study of specific problems. Prerequisite: Permission of instructor. May be repeated for up to 12 hours of credit. Credit: Three hours.

Graduate Courses

Please refer to the Graduate Catalog or department website for information about our graduate courses in Special Education, Education Leadership, and Bilingual Education (EDBE).

Teacher Education in the Disciplines

Coordination: Dean of Professional Education and Professional Education Council

Location: Stoddard 202

Telephone: (940) 898-2202

Fax: (940) 898-2209

Website: www.twu.edu/cope

Advising: Professional Education Student Support Services, Stoddard Hall 211

Teaching certificates in the disciplines require an undergraduate degree and completion of required courses in teacher education. Students may earn the teaching certificate in two ways: (1) while earning the bachelor's degree by completing a major in an approved certification area and a minor in education, or (2) by earning teaching certification as post-baccalaureate students after completing a degree.

Students preparing to teach elementary school, middle school English language arts/reading or as a middle school generalist major in Interdisciplinary Studies and minor in Education. Students seeking an all-level certificate select a major in the specialization area and minor in Education. Academic advising is available to each student from both the academic departments and the College of Professional Education.

Teaching Certificate Plans for the Majors

Requirements for majors with teaching certificates vary among academic departments and according to the grades to be taught. Plans for grades 8-12 are considered secondary education. Students should complete the requirements for the university core curriculum and the major department's plan for teacher certification. In some areas, certificates are provided which permit the student to teach a single subject in all levels or grades of the public schools (EC-12 plans).

Teaching Certifications Available in the Disciplines

Major Discipline	Teacher Certification Programs
Arts	EC*-12 Art 8-12 Dance EC-12 Music EC-12 Theater Arts (Drama)
Biology	4-8 Science 8-12 Science – Biology 8-12 Life Science
Business	6-12 Business Education
Communication Sciences	EC-12 Education of the Deaf and Hard of Hearing
Chemistry	8-12 Science – Chemistry 8-12 Physical Science
Computer Science	8-12 Computer Science
English	8-12 English-Language Arts/Reading
Family & Consumer Sciences	6-12 Family and Consumer Sciences – Composite 8-12 Human Development and Family Studies 8-12 Hospitality, Nutrition and Food Sciences
Health Studies	EC-12 Health Education
History and Government	4-8 Social Studies 8-12 Social Studies 8-12 History
Kinesiology	EC-12 Physical Education
Language Arts	4-8 English/Language Arts and Reading
Mathematics	4-8 Mathematics 8-12 Mathematics
Sciences	4-8 Science

*EC – Early Childhood

Requirements for Education Minor (20 credit hours)

These courses are required for all students who are pursuing teacher certification. Students must earn grades of “C” or above in each course.

Required Pedagogy & Professional Responsibility Courses

- EDUC 2003. Schools and Society
- EDUC 3003. Learning Theory & Development
- EDUC 3482. Teaching Diverse Learners Through Technology Integration
- EDUC 4113. Design & Imp. of Instruction & Assessment
- EDUC 4243. Classroom Environment & Management
- EDUC 4__6. Student Teaching

Admission to Teacher Education Programs

All students pursuing teacher certification must achieve acceptable scores in reading, writing and math on an approved examination and achieve a GPA of at least 2.75 overall prior to enrolling in professional education course work. Professional education course work is practice-based and includes EDUC 2003, EDUC 3003, 3482, EDUC 4113, EDUC 4243 and 6 hours of student teaching.

Students apply for admission to the Teacher Education Program prior to enrollment in 3000-level EDUC course work. Applications are available in the Office of Student Support Services in the College of Professional Education.

The requirements for admission to the Teacher Education Program are as follows:

1. Successful completion of EDUC 2003.
2. Acceptable assessment scores for admission to Teacher Education.
3. An overall grade point average of not less than 2.75.
4. An acceptable oral screening evaluation.
5. A completed application to the program.

Admission to Student Teaching

Student teacher applicants must secure personal liability insurance prior to placement.

Student Teaching Eligibility Requirements:

1. Admission to the Teacher Education Program;
2. A minimum 2.75 overall grade point average;
3. Satisfactory completion (as defined by the major department) of all course work leading to degree and certification requirements except student teaching.

Application for Teaching Certificate (Online)

Close to completion of their program, students will apply online for teaching certificates on the Texas Education Agency website.

Specific rules affect teacher certification procedures and institutional recommendation.

These include:

1. No student may be admitted to or recommended for an initial certificate or supplemental program based on expired state standards.
2. To be approved for any certificate, candidates shall be required to achieve a satisfactory level of performance on one or more examinations prescribed by the State Board for Educator Certification.
3. Effective September 1, 1982, the State Board of Education rule gives the Commissioner of Education the authority to suspend or revoke a teaching certificate, or refuse to issue a teaching certificate for a person who has been convicted of a felony or misdemeanor for a crime directly related to the duties and responsibilities of the teaching profession. All applicants for an initial credential must submit fingerprints to SBEC.
4. Recommendation for certification will not be made until all state and university requirements are met.

Certification of Post-Baccalaureate Students

TWU offers several options to individuals with a bachelor's degree who are seeking either initial or additional Texas teacher certification. Materials are available in the College of Professional Education Office of Student Support Services that outline the steps involved. All post-baccalaureate students pursuing initial teacher certification must have a cumulative GPA of at least 3.0 (or at least 3.0 on the last 60 hours and a cumulative GPA of at least 2.5) and required scores on one of the tests approved for admission to the Teacher Education program. Regardless of the total number of hours needed to complete certification requirements, at least 12 semester hours of course work must be taken at TWU prior to recommendation for certification. Other requirements unique to the academic specialization must be satisfied.

Graduate Courses

Please refer to the Graduate Catalog or the department website for information about our graduate courses in Special Education, Educational Leadership, and Bilingual Education (EDBE).

College of Health Sciences

Dean: Jimmy H. Ishee, Professor

Location: HDB 202

Telephone: (940) 898-2852

Telefax: (940) 898-2853

Web: www.twu.edu/hs/

The College of Health Sciences is organized into eight academic components including the Departments of Communication Sciences and Disorders, Health Studies, Kinesiology, Nutrition and Food Sciences, programs in Dental Hygiene and Health Care Administration, the School of Occupational Therapy, and the School of Physical Therapy. Students may pursue the degrees of Bachelor of Science, Master of Science, Master of Occupational Therapy, Doctor of Physical Therapy, and Doctor of Philosophy within the College.

Academic programs within the College of Health Sciences prepare women and men to apply the natural sciences for health careers. Programs of the college develop practitioners, scholars, administrators, and researchers who focus their work on health promotion, prevention of illness, and rehabilitation of health related problems. Multidisciplinary studies that encourage collaboration among the faculty characterize the academic environment of the College.

Persons seeking careers in teaching Health Education, Physical Education, or Education of the Deaf may enroll in academic majors within Health Sciences and pursue a teacher certification program in the College of Professional Education to complete entry level requirements for teaching. Students enrolled as nutrition/food science majors may obtain certification to teach Hospitality, Nutrition, and Food Sciences through the Department of Family Sciences within the College of Professional Education.

Major undergraduate sequences leading to baccalaureate degrees are described in the introductory sections of the departments. Practical work experiences in Health

Sciences in the form of practica, internships, clinicals, and cooperative education assignments are available as part of planned degree programs.

Admission Requirements

Please see the admission section of this catalog. Also consult the specific entry requirements that may apply to a particular program as set forth in the introductory material for each department.

Undergraduate Degrees

- B.S. in Food and Nutrition in Business and Industry

- B.S. in Kinesiology

- B.S. in Nutrition

- B.S. in Communication Sciences

- B.S. in Health Studies

- B.S. in Dental Hygiene

- B.A.S. in Health Studies

- B.A.S. in Culinary Science and Food Service Mangement

Department of Communication Sciences and Disorders

Chair:

Location: MCL 820

Telephone: (940) 898-2025

Telefax: (940) 898-2070

Email: coms@twu.edu

Web: www.twu.edu/communication-sciences/

Faculty: Professor D. Walker-Baston; Associate Professors C. Gill; Assistant Professors T. Allman, E. Armstrong, S. Bharadwaj, J. Eleweke, L. Green, J. Mehta, C. Smith; Associate Clinical Professor J. White; Assistant Clinical Professors L. Moorer-Cook, K. Mory, M. Stockholm, J. White, A. Woods; Clinical Instructor P. Chance.

The primary goals of the Department of Communication Sciences and Disorders are to provide students with an understanding of the processes involved in human communication and to prepare students for professional careers in the areas of Speech-Language Pathology and Education of the Deaf and the Hard-of-Hearing.

Students who complete a master's degree in Speech-Language Pathology will be eligible for certification by the American Speech-Language-Hearing Association (ASHA), and students who complete their master's degree in Education of the Deaf and Hard-of-Hearing will be eligible for certification by the Council on the Education of the Deaf (CED).

An academic minor in Communication Sciences and Disorders requires 18 semester hours to be specified by the Department Chair.

For detailed information about the bachelor's degree in Communication Sciences, the TEA certification program in Education of the Deaf and Hard of Hearing, or the graduate programs in Speech-Language Pathology or Education of the Deaf and Hard-of-Hearing, write to the Chair, Department of Communication Sciences and Disorders, Texas Woman's University, Box 425737, Denton, Texas 76204-5737.

Speech-Language-Hearing Clinic

The Speech-Language-Hearing Clinic operates through the Department of Communication Sciences and Disorders and is open most of the year, affording qualified students an opportunity to enroll in clinical practice. Students work with clients from the TWU student body and the community who have various speech, language and/or hearing problems.

Admission Requirements

Students must apply to the Department for admission into the Communication Sciences Program. To apply, students must have completed 30 semester hours and have a cumulative GPA of 2.75 and/or a GPA of 2.75 over their last 30 semester hours of course work. Additionally, students must maintain an overall GPA of 3.0 once admitted to the program. No more than two grades of C will apply toward the major, nor will credit be awarded toward the major for a grade of D or F. A class may be repeated one time.

Students wishing to apply for the TEA certification program in Education of the Deaf and Hard-of-Hearing should do so through the College of Professional Education at the end of their sophomore year. To be accepted into the TEA certification program, a student must meet admission requirements established by the College of Professional Education and the Department of Communication Sciences and Disorders.

It is important to note that most TEA required education courses should be taken at the undergraduate level. Some courses leading to TEA certification offered by the Department are taken at the undergraduate level while others are taken at the graduate level. Students who wish to secure TEA certification should plan for one year of post-baccalaureate studies; certification is not available with only a B.S. degree in Communication Sciences.

Degrees Offered

- B.S. in Communication Sciences
- M.S. in Speech-Language Pathology
- M.S. in Education of the Deaf

Bachelor of Science in Communication Sciences (120 hours)

Required Courses

- COMS 2223. Introduction to Communication Sciences and Disorders
- COMS 2233. Anatomy and Physiology for Speech and Language
- COMS 2513. Deaf Culture
- COMS 3063. Normal Speech and Language Development
- COMS 3333. Phonetics, Phonology and Transcription
- COMS 3503. Speech Disorders and Intervention
- COMS 3523. Audiology
- COMS 3533. Assisted Listening Strategies
- COMS 3553. Normal Language Development in School Age Children
- COMS 3563. Language Disorders and Intervention
- COMS 4101. Study in Speech and Language Development
- COMS 4203. Diagnostic Procedures I
- COMS 4223. Observation of Deaf and Hard-of-Hearing students in the Educational Environment (Deaf Education only)
- COMS 4303. Introduction to Clinical Process (SLP only)
- COMS 4483. English Sign Systems
- COMS 4553. American Sign Language I
- COMS 4563. Advanced Sign English (Deaf Education only)
- COMS 4613. American Sign Language II

COMS 4623. The Brain and Language
 COMS 4633. Speech and Hearing Science
 COMS 4653. Literacy Development in the Hearing Impaired
 COMS 4663. Using ASL to Teach English

Bachelor's in Communication Sciences (Deaf Education Emphasis)

Total Credit hours: 120

FIRST YEAR

First Semester		Second Semester	
ENG 1013	3	ENG 1023	3
HIST 1013	3	HIST 1023	3
SPCH 1013	3	MATH 1013	3
CSCI 1403	3	Humanities Core	3
COMS 2513 Deaf Culture	3	Social/Behavioral Science	3
		(suggest Psychology 1013)	
Total Hours	15	Total Hours	15

SECOND YEAR

First Semester		Second Semester	
MATH 1613 (core - suggest 1703)	3	Sophomore core literature	3
Multicultural/Women's Studies (core)	3	Science with lab	4
GOV 2013	3	GOV 2023	3
EDUC 2003	3	EDUC 3001	1
		EDUC 3003	3
Total Hours	12	Total Hours	14

THIRD YEAR

First Semester		Second Semester	
COMS 3063 Normal Speech &	3	Science with lab	4
Language Development		COMS 3533 Assisted Listening	3
COMS 2233 Anatomy & Physiology ...	3	Strategies	
for Speech & Language		Elective (suggest coursework for	3
COMS 3523 Audiology	3	highly qualified)	
COMS 4663 Using ALS to Teach Eng ..	3	Elective (suggest coursework for	3
Elective (suggest coursework for	3	highly qualified)	
highly qualified)		Visual/Performing Arts core course	3
Total Hours	15	Total Hours	16

FOURTH YEAR

First Semester		Second Semester	
COMS 3553 Normal/Language Dev	3	COMS 3563 Intervention Strategies for	3
in School Age Children		Language Development	
COMS 4483 English Sign Systems	3	COMS 4653 Literacy Development in	3
EDUC 4001	1	The Hearing Impaired Child	
EDUC 4113	3	COMS 4101 Study in Speech & Language	
EDUC 4243	3	Dev./Senior Seminar	1
COMS 4553 ASL I	3	COMS 4613 ASL II	3
COMS 4611 ASL Lab	1	COMS 4223 Deaf Ed. Observation	3
		COMS 4611 ASL II Lab	1
		COMS Elective	3
Total Hours	17	Total Hours	17

Total hrs. needed for major: 43 _____ Computer literacy competency completed
 Total hrs. for minor (if used): 0 _____ Oral Communication competency completed
 Total all hrs. needed for degree: 120 _____ Core Curriculum Completed

**Bachelor's in Communication Sciences
(Speech-Language Pathology Emphasis)
Total Credit hours: 120**

FIRST YEAR

First Semester		Second Semester	
ENG 1013	3	ENG 1023	3
HIST 1013	3	HIST 1023	3
SPCH 1013	3	MATH 1013	3
CSCI 1403	3	Humanities Core course	3
Elective	3	Social/Behavioral Science	3
		(suggest Psychology 1013)	
Total Hours	15	Total Hours	15

SECOND YEAR

First Semester		Second Semester	
MATH 1613 (core - suggest 1703)	3	Sophomore core literature	3
Multicultural/Women's Studies (core)	3	Science with lab (Physics - core)	4
COMS 2223 Intro to COMS	3	GOV 2023	3
GOV 2013	3	Visual/Performing Arts core course	3
Elective	3	Elective	3
Total Hours	15	Total Hours	16

THIRD YEAR

First Semester		Second Semester	
COMS 3063 Normal Speech & Language Development	3	COMS 4633 Speech & Hearing Sci	3
COMS 2233 Anatomy & Physiology for Speech & Language	3	Science with lab (Biology - core)	4
COMS 3523 Audiology	3	COMS 3533 Assisted Listening Strategies	3
COMS 3333 Phonetics & Phonology	3	COMS 3503 Intervention Strategies for Speech Development	3
Elective	3	Elective	3
Total Hours	15	Total Hours	16

FOURTH YEAR

First Semester		Second Semester	
COMS 4483 Eng Sign Systems	3	COMS 3563 Intervention Strategies for Language Development	3
COMS 3553 Normal/Language Dev. in School Age Children	3	COMS 4653 Literacy Dev. in The Hearing Impaired Child	3
COMS 4623 Brain and Language	3	COMS 4101 Study in Speech & Language Dev/Senior Seminar	1
COMS 4203 Diagnostic Procedures	3	COMS 4303 SLP Observation	3
Elective		Elective	3
Total Hours	15	Total Hours	13

All students must complete core competencies and six credit hours in approved Global Perspectives courses, either in the core or major courses (graduation requirement).

Communication Sciences and Disorders Undergraduate Courses

COMS 2223. Introduction to Communication Sciences and Disorders.

Issues in the professions of speech-language pathology and audiology, biological foundations for speech, language and hearing, English sound systems, and basic acoustics and acoustic characteristic of sounds. Overview of the etiology and treatment of disorders of articulation, fluency, voice, swallowing, language and hearing. Three lecture hours a week. Credit: Three hours.

COMS 2233. Anatomy and Physiology for Speech and Language. The relationship of anatomy and physiology of the brain, central nervous system, and the respiratory system with articulation, phonation, and hearing. For COMS majors only. Three lecture hours a week. Credit: Three hours.

COMS 2513. Deaf Culture. History of deaf community, its art, literature and language (American Sign Language), including current attitudes, movements, policies and trends which affect the Deaf as a minority. Three lecture hours a week. Credit: Three hours.

COMS 3063. Normal Speech and Language Development. Nature of language, language-learning theories, and milestones of speech and language development; emphasis on preschool years. Three lecture hours a week. Credit: Three hours.

COMS 3333. Phonetics, Phonology and Transcription. Classification and phonetics of English Phonemes using the International Phonetic Alphabet (IPA), diacritical markings and phonological processes. Prerequisite: COMS 2223. Three lecture hours a week. Credit: Three hours.

COMS 3503. Speech Disorders and Intervention. Normal speech development; etiology, diagnosis and treatment for speech disorders as they relate to children and adults. Factors involved in the learning and teaching of speech to the deaf and hard-of-hearing. Prerequisite: COMS 2223 and 3333. Three lecture hours a week. Credit: Three hours.

COMS 3523. Audiology I. Introduction to anatomy and physiology of the auditory system, assessment of hearing and the effects of hearing loss on communication across the ages from infancy through old age. Three lecture hours a week. Credit: Three hours.

COMS 3533. Assisted Listening Strategies. Acoustic Technology and Methods for the Deaf. Environmental management, hearing aids, assistive listening devices, tactile transducers, cochlear implants, speech reading and auditory training methods for adults and children with hearing and/or listening differences. Prerequisite 3523. Three lecture hours a week. Credit: Three hours.

COMS 3553. Normal Language Development in School Age Children. Nature of oral and written language, the relationship of language to academic learning and language development in the school age years. Prerequisite: COMS 3063. Three lecture hours a week. Credit: Three hours.

COMS 3563. Language Intervention. Etiology, diagnosis and therapy for language disorders in children ages 3 through 12. Other language disorders will

be presented as they relate to infants, adolescents and adults. Prerequisite: COMS 3553. Three lecture hours a week. Credit: Three hours.

COMS 4101. Study in Speech and Language Development. A course of study designed to enhance a student's knowledge of speech and language development in designated domains. Prerequisite: Permission of department. One lecture hour a week. Credit: One hour.

COMS 4203. Diagnostic Procedures I. Instruction in current evaluative procedures of speech and language both formal and informal; using test data to plan for intervention strategies. Three lecture hours a week. Credit: Three hours.

COMS 4223. Observations of Deaf and Hard-of-Hearing Students in the Educational Environment. Instruction about and scheduled observations of educational programs designed to educate deaf and hard-of-hearing children at the preschool, elementary, and secondary levels. The course will cover the following methods of instruction: total communication, auditory-verbal, and teaching English as a second language. One lecture hour and four laboratory hours a week. Prerequisite: Permission from department. Credit: Three hours.

COMS 4303. Introduction to Clinical Process. Introduction to clinical handbook and basic clinical procedures. Prerequisites: Permission of Director of SLP. One lecture hour and three laboratory hours a week. Credit: three hours.

COMS 4483. English Sign Systems. The use of various manual code systems (SOS, MSS, Cued Speech) to facilitate the development of English by teachers of the hearing impaired. Prerequisite: COMS 2513 or permission of the instructor. Three lecture hours a week. Credit: Three hours.

COMS 4553. American Sign Language - I. A first course in American Sign Language (ASL). Development of a minimal working vocabulary of signs taken from ASL and to develop some understanding of and the ability to use ASL grammar. Corequisite: COMS 4611. Three lecture hours a week. Credit: three hours.

COMS 4563. Linguistics of Sign Communication. The development of functional skills in the use of Signed English, including Morphemic Sign System (MSS). Prerequisite: A course in signed English or permission of instructor. Three lecture hours a week. Credit: Three hours.

COMS 4611. American Sign Language Lab. Practical application of sign skills. Corequisite: COMS 4553 and COMS 4613. Credit: One hour.

COMS 4613. American Sign Language - II. A second course in American Sign Language (ASL). Expansion of ASL vocabulary and grammar. Enhancement of ability to understand ASL. Three lecture hours a week. Corequisite: COMS 4611. Credit: Three hours.

COMS 4623. The Brain and Language: An Introduction. An introduction to the neurology of speech and language mechanisms in children and adults. Emphasis on the neuronal bases of speech and language with focus on clinical syndromes of speech motor systems and central language mechanisms. Three lecture hours a week. Credit: Three hours.

COMS 4633. Speech and Hearing Science. Scientific basis underlying evaluation and treatment skills in clinical procedures for perception and production of respiration, phonation, articulation, resonance, prosody, and hearing. Prerequisites: COMS 2233 and COMS 3333. Three lecture hours a week. Credit: Three hours.

COMS 4653. Literacy Development in the Hearing Impaired. Review of research in the reading, writing, speaking, and listening skills of both hearing and hearing-impaired populations. Linguistic and literacy development explored in-depth as they relate to whole language development in hearing-impaired children. Three lecture hours a week. Credit: Three hours.

COMS 4663. Using ASL to Teach English. Instructional strategies for using ASL to teach English grammar and syntax to students who are deaf; exploration of the linguistic features of ASL and methods to teach English grammatical structures. Prerequisites: COMS 4553 and COMS 4613. Three lecture hours a week. Credit: Three hours.

COMS 4913. Independent Study. Individual study of specific problems. Prerequisite: Permission of instructor. Credit: Three hours.

Graduate Courses

Please refer to the Graduate Catalog or the department website for information about our graduate courses.

Program of Dental Hygiene

Program Director: Patricia J. Nunn, Associate Clinical Professor

Location: OMB 220

Telephone: (940) 898-2870

Fax: (940) 898-2869

www.twu.edu/dental-hygiene

email: ssaunders@mail.twu.edu

Faculty: Professor C. Beatty; Associate Clinical Professors L. Koberna, L. Spoons; Assistant Clinical Professor A. Teague.

Accreditation Status

The program in dental hygiene is accredited by the Commission on Dental Accreditation and has been granted the accreditation status of approval. The commission is a specialized accrediting body recognized by the U.S. Department of Education. The Commission on Dental Accreditation can be contacted at 312/440-4653 or at 211 East Chicago Avenue, Chicago, Illinois 60611, www.ada.org/117.aspx.

Degree Offered

Bachelor of Science in Dental Hygiene (B.S.D.H.):

Professional Entry-Level Program

R.D.H. (Registered Dental Hygienist) to B.S.D.H. Program (online)

Admission Requirements

Students accepted to Texas Woman's University may declare as pre-dental hygiene majors. Applicants to the Dental Hygiene program may enter either through (1) the pre-dental hygiene curriculum (for the professional entry-level program), or (2) if already registered dental hygienists, students may enter the RDH to BSDH program. Admission to the professional entry-level program is competitive based upon written criteria for admission and selection procedures. Admission to the RDH to BSDH program is based upon graduation as a Registered Dental Hygienist from an institution accredited by the Commission on Dental Accreditation and licensure or eligibility for licensure as a dental hygienist. With Dental Hygiene Program approval, applications may also be considered when they are current students in an associate's degree or certificate dental hygiene program.

Professional Entry-Level BSDH Program

Admission to the Professional Entry-Level

To be considered for the professional entry-level dental hygiene program, applicants must have successfully completed or demonstrate the ability to suc-

successfully complete 60 semester hours of credit prior to fall semester matriculation into the program. Credit must include the following prerequisite courses.

Required Foundational Courses – to be completed prior to application to the program

ZOOL 2031/2033 Anatomy & Phys
 BACT 1001/1003 Microbiology
 ENG 1013 Composition I
 PSY 1013 Introduction to Psychology
 SOCI 1413 Cultural Inequality & Self (MC/WS)
 MATH 1703 Elementary Statistics

Other Required Courses (core curriculum and prerequisites)

CHEM 1011/1013 Introduction to Chemistry
 CSCI 2433 Micro Computer Applications
 ENG 1023 Composition II
 GOV 2013 U.S. Government
 GOV 2023 Texas Government
 HIST 1013 U.S. History I
 HIST 1023 U.S. History II
 MATH 1013 Financial and Quantitative Literacy
 NFS 2323 Introduction to Nutrition
 SPCH 1013 Oral Communication
 Literature or Philosophy core course
 Visual or Performing Arts core course
 Global Perspectives courses (6 credits)
 Elective(s) to complete 60 credit hour: SPAN 3173 Spanish for Professions

recommended

Admission Criteria for the Professional Entry-Level Program

- Academic good standing with the college or university last attended.
- Competitive SAT score (verbal and math sections only) OR ACT Assessment composite score OR a Bachelor's Degree. There is no predetermined required minimum score; however, scores may be considered during the selection process. Generally, a strong score for SAT is 1134 or above and a strong score for the ACT composite is 26 or above.
- Grades of C or better in biologic sciences, nutrition, and statistics prerequisite courses.
- Completion of required foundational coursework listed above.
- Other prerequisite work completed, in progress, or scheduled for completion prior to entry into the professional program.
- Demonstrated fluency in English. If English is the student's second language, a national standardized TOEFL examination with the following minimum scores: 79 for the Internet-Based Test (IBT), 550 for the Paper-Based Test (PBT), or 213 for the Computer-Based Test (CBT).
- Documented knowledge of the professional ethics and of the dental hygienist's role in health care. This requirement may be met through individual research

and study together with documented shadowing of practicing dental hygienists in two or more settings for a minimum of 40 hours. Observation of a dentist is commendable, but does not meet requirements and will not be used in the selection process.

Application for the Professional Entry-Level Program

- Application to the University must be completed prior to application to the Dental Hygiene program.
- Applications to the University should be completed by December 1 for first round consideration and February 1 for second round consideration. Applications cannot be considered until the applicant has been accepted to TWU.
- Application materials, including fall transcripts, should be submitted to the Dental Hygiene Program by January 10th for the first round of interviews and selections.
- A second round of applicants may be considered on a rolling basis until the class is filled; therefore, applicants may continue to apply through March 1. Applicants in the first round have the best chance for selection.

Part 1: Documentation Review

- Application materials must be complete and submitted on time.
- Cumulative GPA is computed by TWU based upon coursework previously attempted. Only applicants with a 3.0 minimum cumulative GPA will be further reviewed.
- A foundational grade point average (FGPA) using an applicant's best grades in the required foundational courses above is one criterion for admission.
- Applicants are ranked according to an Admissions Selection Rubric. Applicants with the best ratings are invited to Part 2 of the process.

Part 2: Interview and Writing Sample

- Personal interviews of competitive applicants are conducted by the Selection Committee. All expenses of the interview are the responsibility of the applicant. Applicants are assessed on the ability to communicate and articulate ideas, critical thinking skills, leadership skills, motivation for selecting oral healthcare, and overall knowledge of the dental hygiene profession and its ethics. In addition, applicants are assessed for moral/ethical character, intellectual maturity, and optimism.
- Quality of prior educational experiences and evidence of participation in community volunteer activities.
- Applicants complete a short writing sample at the interview which is evaluated for articulation of thought (content), as well as structure, grammar, spelling, and punctuation.

Selection for the Professional Entry-Level Program

- Applicants will be notified of acceptance or non-acceptance on a rolling basis until the class is filled and alternates selected.
- Selected applicants must complete all required courses in order to enter the program in the fall semester. An exception may be requested for the TWU multicultural women's studies core requirement.

Academic Requirements for Students Admitted to the Professional Entry-Level Program

Students must meet all of the following requirements or be dismissed from the program.

- Maintain a cumulative overall grade point average (GPA) of 3.0 or higher to remain in the program.
- Earn grades of C or better in any required dental hygiene course, regardless of the overall GPA.
- Successfully progress on schedule with the entry cohort through the program in consecutive semesters. Failure to register for the currently required semester of dental hygiene coursework makes the student ineligible to continue in the program; the student must reapply for admission.
- Maintain compliance throughout the program with the TWU Immunization policy from the first day of class for fall semester of the first year in the program.
- Maintain evidence of current healthcare provider CPR/AED from the first day of classes, fall semester in the junior year, and again by the first day of classes, fall semester in the senior year.
- Submit results of a background check and drug screening for clinical rotation sites. Licensure is required to practice dental hygiene in every state. Please note that an individual who has been convicted of a felony may possibly be denied licensure as a dental hygienist. Individuals with a record should contact the state dental board about their specific case to determine whether or not they would be eligible to become licensed as dental hygienists. In addition, clinical rotation sites are a part of dental hygiene education at TWU. Inability to participate in clinical rotations may hinder or preclude a student from continuing in the program.
- Commit to devoting the time needed to complete the heavy laboratory and clinic schedules, requiring four to five full days of classes per week. One credit hour equals one lecture hour, two to three laboratory hours, or three to five clinic hours per week.
- Use of the appropriate appeal process by any student dismissed from the program.

B.S. in Dental Hygiene (120 hours)**JUNIOR YEAR**

First Semester	Second Semester
DH 3403 Preclinical Dental Hygiene I	DH 3504 Clinical DH II
DH 3413 Clinical DH Theory & Practicum	DH 3513 DH Process of Care
DH 3423 Orofacial Biology	DH 3112 Periodontology I
DH 3431 Applied Oral Radiology	DH 4102 DH Research
DH 3433 Oral Radiology	DH 4142 Pharmacology for DH
DH 3222 Risk Assessment & Preventive Dentistry	DH 3553 Community Oral Health
DH 4161 Ethics for DH	

Total Hours 16**Total Hours 16****SENIOR YEAR**

First Semester	Second Semester
DH 4404 Clinical DH III	DH 4204 Clinical DH IV
DH 4412 Advanced Clinical DH	DH 4512 Senior Clinical Seminar
DH 4423 General & Oral Pathology	DH 4521 Applied DH Diag & Adv Radiology
DH 4431 Community Oral Health Practicum	DH 4312 DH Professional Practicum
DH 4443 DH Care for Special Needs	DH 4541 Current Issues in DH
DH 4451 Dental Materials	DH 4552 Periodontology II & Advanced Cases
DH 4461 Applied Dental Materials	
DH 4471 DH Clinical Cases	

Total Hours 16**Total Hours 12****RDH to BSDH Program****Admission to the Registered Dental Hygienist to B.S. in Dental Hygiene Program**

The online RDH-to-BSDH program allows an individual licensed as a dental hygienist to complete requirements for a bachelor's degree in Dental Hygiene, regardless of where they may live. A total of 90 hours may be transferred into the program; up to 84 of those credits may be lower division. Transfer courses may include bachelor's degree requirements for Texas and TWU as well as previous dental hygiene coursework.

Eligibility

Applicants must

- Meet TWU entrance requirements and complete the TWU Application for Admission.
- Be a graduate or current student of an associate's degree or certificate dental hygiene program accredited by the Commission on Dental Accreditation.
- Hold licensure as a dental hygienist, or obtain Dental Hygiene Program approval for a current associate degree dental hygiene student.
- Meet all RDH to BSDH requirements and complete the application for admission.
- Send official transcripts from all colleges attended to TWU Dental Hygiene;

attn.: RDH-to-BSDH Program; P.O. Box 425796; Denton, TX 76204-5796.

- Have regular access to a computer, which meets standards compatible with TWU Distance Education, and high speed Internet access.

Upon acceptance into the program, an advisor will work with the individual to determine requisite coursework in accordance with the student's interests and previous course credits.

Program Requirements

- Complete the Texas general education core curriculum and TWU bachelor's degree course requirements (listed elsewhere in this catalog)
- Complete 36 credits of upper level courses, including 18 hours of requisite RDH to BSDH dental hygiene courses. Remaining upper division coursework may be selected from elective courses appropriate for personal professional goals and in certain core areas (Visual or Performing Arts, Humanities, Multicultural Women's Studies, Global Perspectives, and Computer Science).
- Complete remaining credits required for the degree. Dental hygiene coursework may be transferred for remaining credits. Note: Graduates from institutions with whom the TWU Dental Hygiene Program has articulation agreements are admitted and courses accepted per agreements.

RDH to BSDH Curriculum

Required	Credit
Core Curriculum* (may be transferred up to credit hour limit)	42
Entry-Level Dental Hygiene coursework (transferred)	TBD**
TWU global perspectives requirement	6
RDH to BSDH major required courses (upper division courses)	18
DH 4803 Alternative Careers in Dental Hygiene	
DH 4813 Applied Dental Hygiene Research	
DH 4823 DH Clinical Case Study Development	
DH 4883 DH Clinical & Classroom Teaching Methodology	
DH 4893 Alternative DH Professional Careers Practicum	
DH 4923 Senior Seminar (oral comm. core, GP)	
Additional upper division required courses (Includes courses relevant to personal professional goals, core curriculum, and TWU requirements.)	18
TOTAL for BSDH	120

*Includes oral communication and computer literacy

**TBD (To be determined). The Dental Hygiene program analyzes the credits taken to determine how many credits may be transferred for this area.

Dental Hygiene Undergraduate Courses

DH 1101. Orientation to Dental Hygiene. Introduces the student to dentistry, dental hygiene, dental assisting, and dental laboratory technology; outlines the development of the professions, their organizational structures, councils and bureaus; dental terminology, disease control, modes of dental practice, specialties, educational programs, and career options are discussed. One lecture hour a week. Credit: One hour.

DH 3112. Periodontology I. Periodontal conditions including the healthy periodontium, immune response, periodontal pathogenesis, diseases of the periodontium, and an overview of clinical periodontal assessment, non-surgical therapy, and maintenance. 2 lecture: 2 credit hours

DH 3222. Risk Assessment & Preventive Dentistry. Oral disease risk factors and relationship to individualized oral health education, preventive dentistry, dental health education, and health promotion, psychology of human behavior and other factors influencing dental health behavior. 2 lecture: 2 credit hours

DH 3403. Preclinical Dental Hygiene I. Laboratory in preparation for initiation of clinical patient care, including infection control, patient assessment, instrumentation, and beginning patient care. 9 lab: 3 credit hours.

DH 3413. Clinical Dental Hygiene Theory and Practice. Dental hygiene concepts including oral healthcare, prevention of disease transmission, ergonomics, assessment, diagnosis, planning, implementation and evaluation (ADPIE), patient assessment techniques, dental hygiene diagnosis, planning, and implementation for a relatively healthy patient. 3 lecture: 3 credit hours.

DH 3423. Orofacial Biology. Oral head and neck anatomy, histology, embryology, and tooth morphology. 3 lecture: 3 credit hours.

DH 3431. Applied Oral Radiology. Laboratory and clinical experiences necessary to produce quality radiographs, including communication and documentation, and to provide radiographic interpretation for common landmarks, pathologies and anomalies. 4 lab: 1 credit hour.

DH 3433. Oral Radiology. Principles of x-ray production and safety factors; application and theory of proper exposure, processing and mounting radiographs. Study of radiographic interpretation including recognition and identification of normal anatomic landmarks and selected pathologic conditions. 3 lecture: 3 credit hours.

DH 3504. Clinical Dental Hygiene II. Continuing guided practice sessions, provision of the dental hygiene process of care to patients with relatively uncomplicated needs, also includes assisting, as well as other adjunct clinical procedures, and discussion of clinical cases. 3 lab, 9 clinic: 4 credit hours.

DH 3513. Dental Hygiene Process of Care. Dental hygiene process of care for patients with greater treatment needs also includes dentinal hypersensitivity, self-assessment in the clinical environment, periodontal debridement. Dental caries management, sealants, pain control, and preparation for medical emergencies. 3 lecture: 3 credit hours.

DH 3553. Community Oral Health. Principles, practices and methods of dental public health, including oral health education; emphasis on the role of the

dental hygienist in community oral and interdisciplinary health programs. 3 lecture: 3 credit hours.

DH 4002. Transitional Clinic. A mock office practice appropriate to the individual student's level of clinical competency with emphasis on appropriate time utilization. May also be taken as a refresher course for those who would like to update clinical skills before reentry into the profession. 7 clinic: 2 credit hours.

DH 4102. Dental Hygiene Research. Study of evidence based practice related to dental hygiene practice; emphasis on finding, accessing, interpreting, and applying scientific information from reliable sources; development and presentation of a literature review of a dental hygiene topic of interest. 2 lecture: 2 credit hours.

DH 4142. Pharmacology for Dental Hygienists. Overview of concepts of drug therapy and specific mechanisms of action, including pharmacology, pharmacokinetics, and pharmacodynamics for drugs commonly used in dentistry, including general and local anesthetic agents, as well as for drugs prescribed for medical conditions that may alter dental treatment. 2 lecture: 2 credit hours.

DH 4161. Ethics for Dental Hygiene. Professional ethics including ethical theory and philosophy, ethical principles and values, professionalism, social responsibility and justice, codes of ethics, ethical decision making. 1 lecture: 1 credit hour.

DH 4204. Clinical Dental Hygiene IV. Continued integration of dental hygiene process of care using evidence-based decision-making for patients with advanced periodontal disease and/or with involved systemic condition(s) and/or special needs. Preparation for regional clinical board examination, continued provision of care for patients with less complicated needs. 2 lab, 12 clinic: 4 credit hours.

DH 4312. Dental Hygiene Professional Practicum. Study of professional practice issues; exploration of alternative dental hygiene practices settings and opportunities such as dental hygiene education, dental health education, community based dental practice, public health dentistry, research, and business/management; internship in one of these settings. 6 lab: 2 credit hours.

DH 4404. Clinical Dental Hygiene III. Integration of dental hygiene process of care using evidence-based decision-making for the patient with early to moderate periodontal disease, continue to provide care to patients with less complicated needs, oral health education and adjunct procedures. 2 lab, 12 clinic: 4 credit hours.

DH 4412. Advanced Clinical Dental Hygiene. Preparation for transition to practitioner and to experiences with patients with higher difficulty levels & more complex medical problems. Includes pain control, Texas Dental Practice Act and Rules of Texas State Board of Dental Examiners and continued portfolio development. 2 lecture: 2 credit hours.

DH 4423. General and Oral Pathology. General pathology as related to systemic changes impacting oral conditions with emphasis on diseases and pathologies of the oral cavity and head and neck. 3 lecture: 3 credit hours.

DH 4431. Community Oral Health Practicum. Experiences in assessing, planning, implementation and evaluation for the purpose of community oral health programming with diverse populations in a variety of settings. 3 lab: 1 credit hour.

DH 4443. Dental Hygiene Care for Special Needs. Unique characteristics and needs of pediatric, adolescent, and geriatric patients related to oral health care, and for patients who present with the most common medical conditions that require modified treatment or specialized oral health education. 3 lecture: 3 credit hours.

DH 4451. Dental Materials. Physical and chemical properties, indications for use, and use of dental materials commonly utilized in dental hygiene and selected materials used in oral healthcare. 1 lecture: 1 credit hour.

DH 4461. Applied Dental Materials. Manipulation, application, evaluation, and safe use of a variety of dental materials currently used in oral healthcare. 3 lab: 1 credit hour.

DH 4471. Clinical Cases. Use of the case study method for dental hygienists, including analysis and evaluation of dental hygiene cases, and planning for initiation of individual specialized case studies. 1 lecture: 1 credit hour.

DH 4512. Senior Clinical Seminar. Exploration of clinical issues and principles as they arise, including additional clinical functions; opportunities to increase skill in critical thinking through use of case studies, completion of portfolio. 2 lecture: 2 credit hours.

DH 4521. Applied DH Diagnosis and Advanced Radiology. Pathophysiology and diagnostic indicators for common oral conditions with special emphasis on radiologic evidence. Differential diagnosis & definitive diagnosis as apply to practice of dental hygiene. Principles for presentation of diagnosis to patient and/or interdisciplinary and intradisciplinary healthcare providers. 2 lab: 1 credit hour.

DH 4541. Current Issues in Oral Healthcare. Exploration of and professional response to evolving topics and/or problems and potential solutions as they relate to the current state of oral healthcare and oral health education. 1 lecture: 1 credit hour.

DH 4552. Perio II and Advanced Cases. Management of advanced periodontal disease, complex case studies in preparation for dental hygiene practice and for the National Board Dental Hygiene Examination; presentation of completed individual or group specialized cases. 2 lecture: 2 credit hours.

Additional Courses for RDH to BSDH Program

DH 4803. Alternative Careers in Dental Hygiene. Roles of dental hygienists as applied to alternative dental hygiene careers and to improving access to oral health care; leadership, interdisciplinary collaboration, advocacy, and change theory related to advancing the profession; setting personal professional goals relative to alternative careers. 3 lecture: 3 credit hours.

DH 4813. Applied Dental Hygiene Research. Application of evidence based practice to dental hygiene practice; finding, accessing, interpreting, and applying scientific information from reliable sources; conducting research in dental hygiene; developing research presentations; public presentation of research findings related to a dental hygiene topic of interest. 3 lecture: 3 credit hours.

DH 4823. Dental Hygiene Clinical Case Study Development. Examination and application of critical thinking and evidence-based decision-making to

increase those skills in clinical practice, clinical education, or other areas of dental hygiene practice; use of prepared and student-developed case studies. 3 lecture: 3 credit hours.

DH 4883. Dental Hygiene Clinical and Classroom Teaching Methodology. Educational concepts, including educational theory and methodology, applied to clinical dental hygiene and classroom teaching; differentiation between skill, knowledge and techniques for dental hygiene clinical practice in contrast to what is required for dental hygiene education. 3 lecture: 3 credit hours.

DH 4893. Alternative Dental Hygiene Careers Practicum. Exploration of alternative dental hygiene practice settings and opportunities: DH education, community based dental practice, public health dentistry, research, and business/management; internship in one of these settings; development of resume, curriculum vitae, and professional portfolio.

DH 4923. Senior Seminar. Synthesis and utilization of dental hygiene principles in the practice of dental hygiene on a global basis. Two graded oral presentations demonstrating the ability to communicate effectively will be required. 3 lecture: 3 credit hours.

Special Courses

DH 4903. Selected Topics in Dental Hygiene. Study of current selected topics related to dental hygiene practice for dental hygiene degree completion. Credit: three hours. May be repeated for additional credit unlimited times provided that selected topics differ. Prerequisite: Admission to degree completion program or special permission.

DH 4911. Independent Study in Dental Hygiene. Independent study in selected topics. Credit: One hour.

DH 4913. Independent Study in Dental Hygiene. Independent study in selected topics. Credit: Three hours.

DH 4951, 4953. Cooperative Education

Program in Health Care Administration

HOUSTON

Program Director: Kelley Moseley, Professor

Location: IHSH 7114

Telephone: (713) 794-2061

Telefax: (713) 794-2350

Email: gshelton@twu.edu

Faculty: Professor K. Moseley; Associate Professor G. Goodman; Assistant Professors A. Selcer, K. Tsai; Assistant Clinical Professor M. Phelps.

The Health Care Administration Program was developed to meet the critical need for highly skilled health care administrators. It offers graduate students an interdisciplinary approach to understanding the organizational and administrative problems associated with health care delivery. Its innovative curriculum is designed to prepare individuals for professional careers in the health care milieu. Graduates can anticipate challenging positions involving management, analysis, planning, quality improvement, and evaluation in hospitals; health maintenance organizations; long-term care facilities; medical group practices; community health centers; university health service centers; and federal, state, local, and voluntary health agencies and organizations. The Master of Health Care Administration degree program can be completed on either a part-time or full-time basis, enabling employed individuals to maintain their positions. The Program is accredited by the Commission on Accreditation of Healthcare Management Education.

Graduate Courses

Please refer to the Graduate Catalog or website for graduate course descriptions.

Department of Health Studies

Chair: Gay James, Professor

Location: CFO 1006

Telephone: (940) 898-2860

Department Web Page: <http://www.twu.edu/health-studies/>

Faculty: Professor G. James; Associate Professors R. Shipley, K.L. Wiginton M. Massey-Stokes; Assistant Professors T. Coyle, K. Crosslin, K. Parker, J. Terrell.

The Department of Health Studies offers programs leading to the Bachelor of Science, Bachelor of Applied Science, Master of Science, and Doctor of Philosophy degrees. The Bachelor of Science degree in Health Studies prepares graduates to develop health education programs that promote wellness and prevent disease. Such programs exist in a variety of community settings, including work-site wellness programs, voluntary health organizations, public health departments, clinics and hospitals, and health maintenance organizations. Required courses within this degree program focus on health issues among diverse groups and the seven areas of responsibility of a health education specialist. Those areas include assessing individual and community health needs; planning, implementing, and evaluating health programs; program administration; serving as a resource person; and advocating for health services and health education. Graduates are eligible to take a national exam to become a Certified Health Education Specialist. TWU's Health Studies B.S. program is SABPAC approved; therefore all Health Studies core curriculum courses must be taken at TWU to maintain these national program approval standards.

The Bachelor of Applied Science degree includes a curriculum which accepts a variety of related A.A.S. graduates in health professions to complete a bachelor's degree with a Health Studies major, enabling them to advance their careers to more diverse positions with managerial responsibilities. The program will provide students with the knowledge and skills needed to: apply concepts and principles of management and organization, including the functions of planning, organizing,

directing, and evaluating; human relations; communications, and leadership; and to apply basic principles of business organizations and operations.

Students may choose from among six areas of study within the B.S. in Health Studies degree program: Community Health, Pre-OT, Master's Degree Preparation, All Level Health Education Teaching Certification, Pre-DPT (Fast Track), and Pre-DPT (not Fast Track). Health studies majors who select the Community Health area of study are generally interested in pursuing employment within any of the aforementioned community health settings. Health studies majors who select the Pre-OT will prepare for the same community health employment opportunities and apply for early acceptance into the MOT program offered by the TWU School of Occupational Therapy (see "Occupational Therapy" in this catalog and graduate catalog). If accepted into the MOT program, Pre-OT students will begin OT courses at the beginning of their senior year. Health studies majors who select the Master's Degree Preparation area of study wish to pursue some other health-related master's degree program at TWU. This program allows students to enroll in master's program prerequisite coursework while completing their B.S. degree in Health Studies. Health studies majors who select the All Level Health Education Teaching area of study are interested in teaching Health Education at the elementary or secondary school level.

Health Studies students who select the Pre-DPT (Fast Track) and the Pre-DPT (not Fast Track) will prepare for the professional DPT program in Physical Therapy. Students may be able to complete the majority of requirements for Health Studies while completing the prerequisites for Physical Therapy by the end of the junior year. Such an accredited program would potentially enable a student to complete a B.S. in Health Studies and the DPT in Physical Therapy in a total of six years.

For students pursuing either the Community Health or BAS areas of study, the department offers Online completion degrees in Health Studies Degree Program. These Internet programs offer flexibility and convenience for those students who find it difficult to pursue coursework under the typical course scheduling, and who have the skills and abilities to pursue coursework via an online format. Please contact the Health Studies Department for more information about applying for the online degree program or visit the website at <http://www.twu.edu/health-studies/online-programs.asp>.

Admission Requirements

Please see the Admission section of this catalog.

Undergraduate Degrees

B.S. in Health Studies.

B.A.S. in Health Studies.

Health Studies Major

General Description

To earn the Bachelor of Science in Health Studies degree, the student will major in Health Studies. The student must have a minimum cumulative grade point average of 2.75 for program acceptance. For acceptance into the Online Health Studies program, the student must have a minimum cumulative grade point average of 3.0. All Health Studies majors must maintain a minimum cumulative and Health Studies grade point average of 2.75 (with a minimum grade of “C” in all HS courses). Any Health Studies major whose GPA falls below the 2.75 minimum or earns a grade lower than “C” in any HS course will be placed on probation and given one semester to remediate the GPA or course grade. Total credit hours required: 120.

Students who are not in the Online Health Studies program may petition to take a Health Studies elective course online. Online Health Studies core courses are for online students only, unless approval is granted by the Online Committee.

Academic Policies: All Students

The following policies apply to all students in the Health Studies Department.

1. A minimum grade of C is required in all courses in the Health Studies major. If a student earns a grade of D, F, or WF in a Health Studies course, that course must be repeated. A course in which a grade of less than C (D, F, or WF) was earned may be repeated only once.
2. A student who has earned a grade of less than C (D, F, or WF) twice in the same Health Studies course will be required to leave the Health Studies program.
3. Students receiving a grade of I, D, F or WF in a Health Studies course may not progress to courses for which that course is a prerequisite.
4. If the overall GPA goes below a 2.75, the student must raise it to 2.75 within two semesters. Any student with a GPA below 2.75 for two consecutive semesters will be required to leave the program.
5. Cannot take any courses beyond HS 3053 if student's GPA is below 2.75.

Honors Scholar Program

The Health Studies Department provides the opportunity for students to participate in the Texas Woman's University Honors Scholar Program. The program seeks to develop scholars with excellent technological, writing and research skills as well as clinical expertise. These skills will be developed through both enhanced course work and experimental learning in the department as well as related health agencies. To participate, students must meet the Texas Woman's University Honors Scholar Criteria.

Dismissal

The Health Studies Department reserves the right to require the withdrawal from the Department of Health Studies of any student whose behavior is deemed to threaten the welfare of any individual or whose behavior is deemed unsafe in any manner.

Bachelor of Science in Health Studies: Community Health Area of Study (120 hours)

Required Core Health Studies Courses (45 hours)

HS 1363 Introduction to Health Education
 HS 1902/1901 Fitness & Health Lecture and Lab
 HS 2013 Health Communication
 HS 2813 Introduction to Global Health
 HS 3033 Medical Terminology
 HS 3053 Community Health
 HS 3073 Health Promotion Program Planning and Design
 HS 3083 Program Evaluation in Health Promotion
 HS 3413 Epidemiology
 HS 4121 Internship Preparation
 HS 4123 Internship in Health Education (4 sections)
 HS 4353 Grant Writing in Health Education
 General Elective (2 hours)

Select three courses from the following Health Studies electives (9 hours):
 HS 2373, HS 2383, HS 3363, HS 3373, HS 3403, HS 3443, HS 4363, HS 4483,
 HS 4553.

For the general education requirements, Community Health students must take the following courses: HS 3133, PSY 1013; BACT 1003/1001; CHEM 1013/1011. In addition to the TWU general education course requirements, Community Health students must fulfill the following 22 hours of related course requirements: ZOOL 2033/2031; CSCI 1403; PSY 1603 or PSY 2513; NFS 2013 or NFS 2323; BUS 3003 or BUS 3113; and either SPAN 1013/1023 or COMS 4553/4613.

Suggested Sequence of Courses for the Community Health Area of Study

Please visit <http://www.twu.edu/health-studies/bachelors-degree.asp> for other areas of study degree plans and semester timelines.

FIRST YEAR

First Semester
HIST 1013 U.S. History 1492-1865 3
ENG 1013 Composition I 3
PSY 1013 Intro. General Psychology 3
CHEM 1013/1011 Intro Chemistry..... 4
HS 1902/1901 Fitness & Health 3
Total Hours 16

Second Semester
HIST 1023 U.S. History 1865-Present 3
ENG 1023 Composition II..... 3
GOV 2013 U.S. Government 3
BACT 1003/1001 Microbiology 4
HS 1363 Intro. Health Education 3
Total Hours 16

SECOND YEAR

First Semester	
GOV 2023 Texas Government.....	3
CSCI 1403 First Course in Computing..	3
ZOOL 2031/33 Human A&P	4
HS 2013 Health Communication**	3

Total Hours 13

Second Semester	
MATH 1013 Quantitative Literacy	3
Visual/Perf Arts (core)	3
NFS 2013 or 2323	3
HS 3033 Medical Terminology	3
HS 3053 Community Health Ed.....	3
HS 3133 Persp. Women's Health (core)....	3

Total Hours 18**THIRD YEAR**

First Semester	
SPAN or COMS I.....	3
BUS 3003 or 3113.....	3
Humanities (core).....	3
HS 3073 Health Program Planning.....	3
HS 3413 Epidemiology.....	3

Total Hours 15

Second Semester	
SPAN or COMS II.....	3
MATH 1703 Elementary Statistics I.....	3
PSY 1603 or 2513.....	3
HS 2813 Introduction to Global	3
Health*	
HS Elective 1	3

Total Hours 15**FOURTH YEAR**

First Semester	
HS 3083 Prog. Evaluation Hlth Prom....	3
HS 4353 Grant Writing in Health Ed....	3
HS 4121 Prepare for Internship	1
HS 3203 Health EM Care, 1st Aid, CPR	3
HS Elective 2	3
HS Elective 3	3

Total Hours 16

Second Semester	
HS 4123 Internship.....	3
HS 4123 Internship.....	3
HS 4123 Internship.....	3
HS 4123 Internship.....	3

Total Hours 12

*Satisfies part of global perspectives graduation requirement.

**Satisfies oral communication core requirement.

All students must complete six hours in approved Global Perspectives courses, either in the core or major courses (graduation requirement).

Bachelor of Applied Science in Health Studies (120 hours)**Transfer credit accepted from health specialization (up to 36 hours)**

The courses in the health specialization are what counted for the associate's degree achieved. The following are examples, but not considered conclusive of the health fields that will transfer. Echocardiology Technology, Invasive Cardiovascular Technology, Diagnostic Medical Sonography, Medical Laboratory Technology, Respiratory Care, Emergency Medical Services, Health Information Management, Biotechnology, Radiology Services, Occupational Therapy Technician, Physical Therapy Technician, Medical staff services, and many more.

Required Health Studies and Business Courses (30 hours; required minimum of "C" and 2.75 GPA in all HS courses)

- HS 3403 Environmental Health
- HS 4363 Consumer Health
- HS 4553 Stress Management

HS 4573 Occupational Risk Assessments (pending approval)
HS 4743 Assessment, Planning, and Evaluation for Health Professions
BUS 3003 Principles of Management
BUS 3013 Business Law and Ethics
BUS 3113 Principles of Marketing
BUS 3163 Business Communications
BUS 3273 Human Resources Management

Select two HS electives (6 hours): HS 3203, HS 3363, HS 3373, HS 3443 or HS 4483. For the general elective requirement (4 hours), please refer to the approved global courses listed on the Academic Affairs website. In addition to the general elective requirements, BAS students must fulfill the following (14 hours) related course requirements: HS 3133, ZOOL 2033, ZOOL 2031, BACT 1003, BACT 1001, and Visual and Performing Arts (must be an approved Global Perspectives course).

For the TWU core curriculum requirements, Bachelor's of Applied Science students must also take GOV 2023 Texas Government. For COTA students: PSY 1603 and PSY 2513 must be completed prior to transferring into the MOS-OT program (see Occupational Therapy).

Suggested Sequence of Courses for the Bachelors of Applied Science Area of Study

Please visit <http://www.twu.edu/health-studies/bachelors-degree.asp> for other areas of study, degree plans, and semester timelines.

Other Degree Programs offered by the Department of Health Studies:

Health Studies: Pre-Occupational Therapy (120 hours)
Health Studies: Pre-Physical Therapy (Regular (120 hours) or Fast Track (120hours))
Master's Degree Preparation (120 hours)
All Level Health Education Teaching Certification (120 hours)

For more information on each degree program please visit the Department of Health Studies website at www.twu.edu/health-studies. or call 940-898-2860.

Minor in Health Studies

Eighteen (18) hours of Health Studies courses are required for a minor in Health Studies. Those students who choose to minor in Health Studies must take the following courses: HS 1363, HS 2013, HS 3053, HS 3073, HS 3413. Additional courses may be selected from the following: HS 2373, HS 2383, HS 3203, HS 2813, HS 3133, HS 3363, HS 3373, HS 3403, HS 3443, HS 4363, HS 4483, HS 4553.

Undergraduate Courses

HS 1363. Introduction to Health Education. Health education settings, roles, responsibilities, theories, ethics, and professional organizations associated with the field. Review of leading causes of morbidity and mortality in the U.S. as well as Healthy People 2010 and Healthy People 2020. Three lecture hours a week. Credit: Three hours.

HS 1901. Fitness and Health Laboratory. Activities and laboratories designed to illustrate and experience the balanced approach to fitness and health. HS/KINS/NFS 1902. Fitness and Health: Enhancing Personal Wellness must be taken concurrently. Three activity/laboratory hours a week. Credit: One hour.

HS 1902. Fitness and Health: Enhancing Personal Wellness. (PHED 1304) Introduces basic concepts of fitness, health and nutrition; develops understandings necessary for making wise decisions and establishing individually appropriate practices that contribute to a healthful lifestyle throughout the life span. Wellness issues that affect women and reflect cultural values are addressed. HS/KINS/NFS 1901 Fitness and Health Laboratory must be taken concurrently. Two lecture hours a week. Credit: Two hours.

*****HS 2013. Health Communications.** Provides practical experiences in developing strategies to deliver health messages through a variety of communication channels. Examines theoretical foundations and factors that impact health communication. Fulfills Oral Communications requirement for the University. Corequisites: HS 1363, HS 1901/1902. Three lecture hours a week. Credit: Three hours.

HS 2373. Health Aspects of Human Sexuality. Physical, emotional, social, and psychological dimensions of human sexuality; interpersonal relationships; contemporary attitudes, values, and behaviors; sexuality as a positive health entity. Three lecture hours a week. Credit: Three hours.

HS 2383. Drugs and Human Health. Use and abuse of drugs; focus is on psychological, physical, and social effects on personal and community health. Three lecture hours a week. Credit: Three hours.

****HS 2813. Introduction to Global Health.** Analysis of significant global health issues; determinants of global health status; culture; gender; poverty; politics; economic development; ethical and human rights concerns; and education. Development of global health promotion and advocacy strategies. Three lecture hours a week. Credit: Three hours.

HS 3033. Medical Terminology. A systems approach to the language of medicine, including the analysis and utilization of word roots, combining forms, prefixes, suffixes, and medical terms; emphasis on written and spoken medical vocabulary. Three lecture hours a week. Credit: Three hours.

HS 3053. Community Health. Emphasis on the needs assessment process and how to collect, interpret, synthesize, and report community health data, U.S. health data, county health reports, sources of health information, and ecological and sociological factors impacting health. Health education theories will be ad-

**Satisfies global perspectives graduation requirements.

***Satisfies core oral communication requirement.

dressed and the student will practice using the PRECEDE-PROCEED model. Co/Prerequisites: HS 1363, HS 1901/1902, and HS 2013. Three lecture hours a week. Credit: Three hours.

HS 3073. Health Promotion Program Planning and Design. Introduction to health program planning and design. Includes interpretation of needs assessment data, goals and objectives writing, assets mapping/capacity building, and strategies development. Theories relative to planning and learning styles are discussed. Concepts related to program implementation and evaluation are introduced. Prerequisites: HS 1363, HS 1902, HS 1901, HS 2013, HS 3053 with a GPA of 2.75. Three lecture hours a week. Credit: Three hours.

HS 3083. Program Evaluation in Health Promotion. Methods and models for program evaluation in health promotion and health education; development of data collection instruments; data collection and statistical analysis techniques; interpreting and reporting evaluation results. Prerequisites: HS 1363, HS 1902, HS 1901, HS 2013, HS 3053, HS 3073 with a GPA of 2.75. Three lecture hours a week. Credit: Three hours.

***HS/WS 3133. Perspectives on Women's Health.** Feminist theory provides framework for exploration of women's health care issues throughout the life span. Examines roles of women as providers and consumers of health care. Emphasizes the interface of gender, socio-economic and minority status, and medicalization of women's health. Three lecture hours a week. Credit: Three hours.

HS 3203. Emergency Care, First Aid and CPR. Theory and practice of emergency care including: adult, child and infant rescue breathing; conscious and unconscious choking; infant, child, adult and two person CPR with child and adult AED (Automated External Defibrillation). Includes bloodborne pathogen training and emergency oxygen administration. Preparation for Professional Rescuer certification through the American Red Cross. Three lecture hours a week. Credit: Three hours.

HS 3363. History and Principles of Health Education. Origins of health education; historical influences on principles and theories governing contemporary programs of health education and their significance to the school and the community. Three lecture hours a week. Credit: Three hours.

HS 3373. Health Promotion for Children. Focus on health promotion content for the school age child. Identification of strategies and resources for programs designed to maintain, protect, and promote the health of children. Three lecture hours a week. Credit: Three hours.

HS 3403. Environmental Health and Safety Education. Basic principles of ecology as they apply to the health and safety of human beings in interaction with and within physical and social environments, in relation to the biosphere, and in community and occupational settings; efforts to protect and conserve the environment. Three lecture hours a week. Credit: Three hours.

HS 3413. Epidemiology. Investigation and measurement, control, and prevention of diseases and health conditions, and the risk of these diseases and conditions, in human populations. Three lecture hours a week. Credit: Three hours. Prerequisites: HS 3033, BACT 1003/1001, ZOOL 2033/2031.

*Satisfies core multicultural/women's studies requirement.

HS 3443. Health Aspects of Aging. Aging as a part of the lifecycle; special health concerns of the elderly; current life extending research and technology; successful aging. Three lecture hours a week. Credit: Three hours.

HS 4121 Preparation for Internship in Health Education. Overviews internship requirements and strategies for selecting an internship site, interviewing with potential preceptors, negotiating internship responsibilities, and developing goals and objectives. Professionalism, ethics, communication, conflict resolution, and other related topics. Prepares Community Health majors for the degree program's required 12-credit-hour internship, (HS 4123) and must be taken the semester prior to enrollment in internship. Prerequisites: HS 1363, HS 1902, HS 1901, HS 2013, HS 3053, HS 3073 with a GPA of 2.75. Corequisites: HS 3083, HS 4353, senior classification, internship coordinator approval. One lecture hour a week. Credit: One hour.

HS 4123. Internship in Health Education. Clinical experiences in health related agencies to enable the student to develop competencies generic to the practice of health education. Community Health students must register for 4 sections of HS 4123 within the same semester for a total of 360 hours on site (Pre-OT students: 2 sections, 180 hours on site). Prerequisites: all course work completed, senior classification, internship coordinator approval and a cumulative HS GPA of 2.75. Credit: Three hours.

HS 4353. Grant Writing in Health Education. Capstone course which synthesizes theory and methods of health education, needs assessment, program planning, implementation, and evaluation. Integrates the areas of responsibility for a Certified Health Education Specialist (CHES) into a grant writing project. Prerequisites: HS 1363, HS 1901/1902, HS 2013, HS 3053, HS 3073 with a GPA of 2.75. Corequisites: HS 3083, HS 3413. Three lecture hours a week. Credit: three hours.

HS 4363. Consumer Health. Overview of basic materials needed to make informed decisions in regard to personal health care and selection of health services. Developing and utilizing strategies for making everyday health decisions on an informed basis. Three lecture hours a week. Credit: Three hours.

HS 4483. Psychosocial Aspects of Mental Health. Psychosocial factors which impact health status and health behavior, including: family, environment, culture, age, gender, socioeconomic status, education, violence, grief, loss, traumatic stressors and factors that shape a person's image and identity. Three lecture hours a week. Credit: Three hours.

HS 4553. Stress Management Techniques. Understanding productive and non-productive stress and their implications for health. Learning relaxation techniques and positive reinforcers that lead to wellness. Credit: Three lecture hours a week. Credit: Three hours.

HS 4573. Occupational Risk Assessments. A study of the principles of health and environmental management in the workplace. Topics include: assessment, recognition, evaluation and control of occupational hazards. The course provides students the opportunity to assess environmental factors or risks that can affect the workplace and to assess methods of prevention of occupational injuries and

illnesses. Prerequisites: HS 3403, BAC 1001, BAC 1003.

HS 4743. Assessing, Planning, and Evaluation for Health Professions. Required for BAS students only. Program development and evaluation for health professionals working in allied health, corporate health or health promotion. Highlights needs assessment, theory application, goals and objectives, strategies for program implementation and methods for program evaluation. Prerequisites: All HS required courses, BUS 3003, BUS 3113, coordinator's approval, and cumulative GPA of 2.75. Three lecture hours a week. Credit: Three hours.

HS 4903. Special Topics in Community Health. Examination of a topic of current interest relating to health studies. Requires searching library databases for peer reviewed literature; analysis of the literature; and synthesis of information by way of a class project. Three lecture hours a week. Credit: Three hours

HS 4911. Independent Study. Independent study in selected topics. Credit: one hour. Advisor approval required.

HS 4913. Independent Study. Independent study in selected topics. Credit: Three hours. Advisor and instructor approval required.

HS 4953, 4956. Cooperative Education.

Graduate Courses

Please refer to the Graduate Catalog or the department website for information about our graduate courses.

Department of Kinesiology

Chair: Charlotte (Barney) Sanborn, Professor

Location: Pioneer Hall 208

Telephone: (940) 898-2575

www.twu.edu/kinesiology/

Faculty: Professors V. Ben-Ezra, R. Davis, R. French, Y. Kwon, B. Myers, C. Sanborn; Associate Professors K. Biggerstaff, K. Miloch, D. Nichols, T. Senne, L. Silliman-French; Assistant Professor S. Ford; Lecturers M. Barberee, F. Benatar, K. Brown, R. Bruister, E. Jillson, K. Ring.

University Wellness Activities In Kinesiology

A knowledge of the principles of effective movement through wellness, fitness, sport, and leisure as these relate to the social and economic issues is fundamental to general education. The Centers for Disease Control and Prevention and the American College of Sports Medicine and the U.S. Surgeon General have concluded that physical activity protects against chronic diseases. There are a variety of wellness/fitness classes available that integrate the core of knowledge derived from the study of human movement and provide options and experiences known to promote healthy lifestyles. Special classes are available for students with physical disabilities. Students are encouraged to take wellness activity courses throughout their college experience. These courses have pass/fail options and are designed for individual goal achievement.

Professional Programs

Major programs in kinesiology lead to the Bachelor of Science, Master of Science, and Doctor of Philosophy degrees.

The undergraduate Kinesiology degree program includes an academic core of kinesiology basic to the movement sciences. Students study a variety of scientifically-based subjects including adapted physical education, biomechanics, exercise physiology, physical education pedagogy, and motor learning. A degree in Kinesiology leads to entry level positions in various professions such as Exercise Science, Corporate Fitness, Cardiac Rehabilitation, Physical Education Teacher Certification, Coaching, Athletic Training, and Adapted Physical Education.

Undergraduate students who plan to pursue careers in corporate wellness or health care settings in the private sector such as corporate wellness, cardiac rehabilitation or sports medicine will choose the non-certification exercise science specialization. These students will take the Kinesiology core and a sequence of classroom and applied experiences in exercise-related settings. Further, there are specialized program tracks allowing students to meet all prerequisites required for

admission to entry-level graduate programs in Physical Therapy and Occupational Therapy. Many employers with which the University affiliates require that students be tested for drugs and have criminal background checks. When this is required, students will have the screening done at their own expense.

The All-Level Physical Education (PE) Teacher Certification track is appropriate for students desiring to teach. Teacher certification students will enroll in the Kinesiology core and specific technique and theory courses designed for positions in elementary through secondary physical education (APE). Additionally, with the teacher certification program there is an emphasis available in adapted physical education (APE). Students in the teacher certification track will also have a pedagogy and professional responsibility component. Undergraduate students may prepare for Texas licensure in athletic training or national certification in wellness and fitness through the American College of Sports Medicine.

Each program track must fulfill the general university requirements for graduation, including a minimum total of 120 semester hours. A minimum cumulative grade point average of 3.0 is required for the DPT or MOT fast tracks. These requirements and the requirements for teaching certification are found in earlier sections of the catalog.

The Kinesiology major qualifies students for a variety of graduate programs including Adapted Physical Education, Biomechanics, Exercise and Sports Nutrition, Exercise Physiology, Pedagogy, Coaching, and Sport Management. For more information on the undergraduate programs in Kinesiology, please contact Dr. Terry Senne at tsenne@twu.edu. For information on the graduate program, please contact Dr. David Nichols at dnichols@twu.edu. You can also visit the Department of Kinesiology's website at www.twu.edu/kinesiology/.

Admission Requirements

Please see the Admission section of this catalog.

Undergraduate Degrees

B.S. in Kinesiology

The following are the core requirements for each program track in kinesiology. No grade lower than a C in Kinesiology courses will count towards a kinesiology degree or a kinesiology prerequisite to other kinesiology courses.

All-Level Physical Education Teacher Certification Track (120 hours)

Kinesiology Core

- KINS 1573. Kinesiology: An Evolving Discipline
- KINS 1581. Fitness Through Selected Activities
- KINS 1583. Foundations of Assessment
- KINS 1902/1901. Fitness and Health (includes lab)
- KINS 2622/2621. Adapted Physical Education Service Delivery (includes lab)
- KINS 3592/3591. Kinesiology and Biomechanics (includes lab)
- KINS 3602/3601. Physiology of Exercise (includes lab)
- KINS 4573. Motor Learning and Development
- KINS 4593. Measurement and Evaluation in Kinesiology

All-Level Physical Education Teacher Certification Kinesiology Track Sequence (120 hours)

A. Techniques Courses

- KINS 4003. Low Ropes Experiential Activities
- Select 3 of the following courses with advisor approval:
 - KINS 2031. Lifetime Sports Techniques
 - KINS 2071. Racquet Sports Techniques
 - KINS 2101. Basic Dance and Developmental Gymnastics Techniques
 - KINS 2111. Basketball and Volleyball Techniques
 - KINS 2121. Softball and Soccer Techniques
 - KINS 2131. Introduction to Outdoor Activities
 - KINS 2141. Disability Sport and Modified Games

B. Content and Pedagogical Knowledge Sequence

- KINS 3102/3101. Secondary Physical Education Pedagogy and Practicum
- KINS 3573. Developmental Movement for Children
- KINS 3633. Athletic Injuries
- KINS 3653. Principles of Coaching
- KINS 3811. Movement Activities for Children Internship

C. Practicum (1 hour)

- KINS 3801. Practicum in Coaching

Pedagogy and Professional Responsibility (PPR) Courses

- EDUC 2003. Schools and Society
- EDUC 3003. Learning Theory and Development
- READ 3013. Literacy and Learning Across Curriculum

EDUC 3482. Teaching Diverse Learners Through Technology Integration
 EDUC 4113. Design and Implementation of Instruction and Assessment
 EDUC 4243. Classroom Environment and Management
 EDUC 4833.* Student Teaching - Elementary Physical Education
 EDUC 4833.* Student Teaching - Secondary Physical Education

*Current First Aid and CPR/AED certification required.

Note: ZOOL 2013/2011 Anatomy and Physiology I and ZOOL 2023/2021 Anatomy and Physiology II should be taken to fulfill the University Science core requirement in order to meet upper level Kinesiology course prerequisites. CSCI 3002 should be taken to fulfill the University computer literacy core competency.

B.S. in Kinesiology - Exercise Science (120 hours)

Suggested Sequence

FIRST YEAR

First Semester	Second Semester
ENG 1013 Composition I..... 3	ENG 1023 Composition II..... 3
MATH 1013 Quantitative Literacy..... 3	MATH 1703 Elementary Statistics..... 3
KINS 1573* Evolving Discipline 3	KINS 1573* Evolving Discipline 3
or KINS 1583* Foundations of Assessment	or KINS 1583* Foundations of Assessment
ZOOL 2013/2011 Anatomy 4	ZOOL 2023/2021 Anatomy..... 4
& Physiology	& Physiology
KINS 1902/1901 Fitness & Health..... 3	KINS 1902/1901 Fitness & Health..... 3
or CSCI 1403** 1st Course in Comp.	or CSCI 1403** 1st Course in Comp.
Total Hours 16	Total Hours 16

SECOND YEAR

First Semester	Second Semester
GOV 2013 U.S. Government..... 3	GOV 2023 Texas Government 3
CHEM 1013/1011 Intro. Chemistry..... 4	HIST 1023 U.S. History 1865-Present 3
or 1113/1111 Chemical Principles I	KINS 2622/2621 APE Service Delivery/. 3
HIST 1013 U.S. History 1492-1865 3	Motor & Aquatic APE Instr. Lab
Social/Behav Sci or Eng. 3	or NFS 2323 Intro to Nutrition
Lang, Phil (Humanities)	KINS 3592/3591 Kines & Biomechanics.. 3
KINS 2622/2621 APE Service Delivery/. 3	or 3602/3601 Physiology of Exercise
Motor & Aquatic APE Instr. Lab or	KINS 1581 Fitness through..... 1
or NFS 2323 Intro to Nutrition	Selected Activities
KINS 1581 Fitness through 1	or KINS Technique Course
Selected Activities	Minor 3
or KINS Technique Course	
Total Hours 17	Total Hours 16

THIRD YEAR

First Semester	
CHEM 1023/1021 Intro to Organ/ Phys Chem.....	4
or 1123/1121 Chem Princ II or PHYS 1133/1131 Princ of Phy I.	
KINS 3592/3591 Kin & Biomech.....	3
or KINS 3602/3601 Phys. of Ex	
KINS 3701 Practicum in Sr. Adult Fit. ..	1
Visual Performing Arts or Minor	3
Elective	2
KINS 4003 Low Ropes Exper. Act.	3
Total Hours	16

Second Semester	
KINS 4602/4601 Adv. Ex Physiology.....	3
or KINS 4702/4701 Ex.Test/Prescrip.	
Visual Performing Arts or Minor.....	3
KINS 4573 Motor Learning/Dev.....	3
or KINS 4593 Meas/Eval in PE	
Multi/Wom St (Global Pers) or Minor	3
Social/Behav Sci or Eng, Lang.....	3
Phil (Humanities)	

Total Hours 15

FOURTH YEAR

First Semester	
KINS 4602/4601 Adv Exercise	3
Physiology or KINS 4702/4701 Exercise Test/Prescrip	
KINS 4573 Motor Learning/Dev.	3
or KINS 4593 Meas./Eval in PE	
Minor (upper div).....	3
Minor	3
Multi/Wom St. (Global Pers) or Minor..	3
Total Hours	15

Second Semester	
KINS 4933 Cardiac Rehab Internship.....	3
KINS 4943 Corp/Fitness Internship	3
Minor (upper div)	3
Total Hours	9

Kinesiology Program Tracks

The Department of Kinesiology has 6 different program tracks that fulfill the requirements for the B.S. in Kinesiology degree. They are as follows:

- All-Level Physical Education (PE) Teacher Certification Track (120 hours)
- All-Level Physical Education Teacher Certification Emphasis in Adapted Physical Education (APE) Track (123 hours)
- Exercise Science Track (120 hours)
- Exercise Science – Pre-Physical Therapy Track (123 hours)
- Exercise Science – MOT Fast Track (120 hours)
- Exercise Science – DPT Fast Track (122 hours)

For further information about program track course and departmental graduation requirements, please visit the Department of Kinesiology website.

Kinesiology Minor

A minor in Kinesiology requires 18 semester hours including the following:

- KINS 3591 Kinesiology and Biomechanics Laboratory
- KINS 3592 Kinesiology and Biomechanics
- KINS 3601 Physiology of Exercise Laboratory
- KINS 3602 Physiology of Exercise
- KINS 4573 Motor Learning and Development
- Nine elective hours in KINS courses.

Note: All KINS courses listed for the minor require prerequisite courses.

An Undergraduate Certificate Program in Adapted Physical Education is available for students enrolled in the All-Level Physical Education Teacher Certification Emphasis in Adapted Physical Education program track that leads to a B.S. in Kinesiology. The certificate program is infused throughout the program of study with designated courses in Adapted Physical Education and Special Education. For more information about the program, contact Dr. Lisa Silliman-French.

Kinesiology Undergraduate Courses

KINS 1051–1441. Physical Activity Classes. Activities in Sports, Fitness, Dance, Aquatics, and Body Mechanics. Designed for the general university student. Instruction offered at all levels of skill; emphasis upon the development of total fitness and recreational skills for leisure use. Personal equipment and clothing for most activity courses must be supplied by the student. May be repeated for additional credit. Pass/Fail option available. Three laboratory hours a week. Credit: One hour.

***KINS 1573. Kinesiology: An Evolving Discipline.** Identification and development of an understanding of the evolving discipline of kinesiology. Foundational to the undergraduate curricula in Kinesiology. The student will develop a repertoire of delivery styles; ability to use specific terminology and behavior that promote wellness and motor skill learning. Historical, philosophical, and current trends in the discipline will be explored. Suggested to be taken with KINS 1583. Prerequisite: Kinesiology Department major or consent of instructor. Three lecture hours a week. Credit: Three hours.

KINS 1581. Fitness Through Selected Activities. Selected activities designed to promote physical fitness; critiquing and planning contemporary fitness programs, research, and tests. Prerequisite: Kinesiology Department major or consent of instructor. Three laboratory hours a week. Credit: One hour.

***KINS 1583. Foundations of Assessment.** Introductory techniques for inclusionary assessments of fundamental motor skills, physical activity, physical fitness, and other related skills in kinesiology across the lifespan. Two lecture and four hours of laboratory a week. Prerequisite: Kinesiology Department major or consent of instructor. Credit: Three hours.

KINS 1901. Fitness and Health Laboratory. Activities and laboratories designed to illustrate and experience the balanced approach to fitness and health. Corequisite: KINS 1902. Three activity/laboratory hours a week. Credit: One hour.

KINS 1902. Fitness and Health: Enhancing Personal Wellness. Introduces basic concepts of fitness, health, and nutrition; develops understandings necessary for making wise decisions and establishing individually appropriate practices that contribute to a healthful lifestyle throughout the lifespan. Wellness issues that affect women and reflect cultural values are addressed. Corequisite: KINS 1901. Two lecture hours a week. Credit: Two hours.

*Satisfies core curriculum for oral communication for KINS majors only.

KINS 1911. Tennis. Designed for the general university student. Instruction offered at all levels of skills; emphasis on the development of total physical fitness and recreational skills through participation in tennis. May be repeated for additional credit. Pass/Fail option available. Three laboratory hours a week. Credit: One hour.

KINS 1921. Aerobic Dance. Designed for the general university student. Instruction offered at all levels of skill; emphasis on the development of total physical fitness and recreational skills through participation in aerobic dance. May be repeated for additional credit. Pass/Fail option available. Three laboratory hours a week. Credit: One hour.

KINS 1931. Weight Training. Designed for the general university student. Instruction offered at all levels of skills; emphasis on the development of total physical fitness and recreational skills through participation in weight training. May be repeated for additional credit. Pass/Fail option available. Three laboratory hours a week. Credit: One hour.

KINS 1941. Jogging. Designed for the general university student. Instruction offered at all levels of skills; emphasis on the development of total physical fitness and recreational skills through participation in jogging. May be repeated for additional credit. Pass/Fail option available. Three laboratory hours a week. Credit: One hour.

KINS 1951. Aqua Aerobics. Designed for the general university student. Instruction offered at all levels of skills; emphasis on the development of total physical fitness and recreational skills through participation in aqua aerobics. May be repeated for additional credit. Pass/Fail option available. Three laboratory hours a week. Credit: One hour.

KINS 1961. Beginning Swimming. Designed for the general university student. Instruction offered at all levels of skills; emphasis on the development of total physical fitness and recreational skills through participation in beginning swimming. May be repeated for additional credit. Pass/Fail option available. Three laboratory hours a week. Credit: One hour.

KINS 1971. Swimming for Fitness. Designed for the general university student. Instruction offered at all levels of skills; emphasis on the development of total physical fitness and recreational skills through participation in swimming for fitness. May be repeated for additional credit. Pass/Fail option available. Three laboratory hours a week. Credit: One hour.

KINS 1981. Racquetball. Designed for the general university student. Instruction offered at all levels of skills; emphasis on the development of total physical fitness and recreational skills through participation in racquetball. May be repeated for additional credit. Pass/Fail option available. Three laboratory hours a week. Credit: One hour.

KINS 2031. Lifetime Sports Techniques. Designed for majors with intermediate and advanced skills, and basic knowledge of strategy and rules; analysis of skills and evaluative procedures utilized in golf, softball, and other selected lifetime sports; techniques for integrating various populations. Three laboratory hours a week. Credit: One hour.

KINS 2071. Racquet Sports Techniques. Designed for majors with intermediate and advanced skills, and basic knowledge of strategy and rules; analysis of skills and evaluative procedures utilized in tennis and badminton; techniques for integrating various populations. Three laboratory hours a week. Credit: One hour.

KINS 2101. Basic Dance and Developmental Gymnastics Techniques. Experiences in developmental principles, body awareness and spontaneity in movement through basic dance and developmental gymnastics skills. Three laboratory hours a week. Credit: One hour.

KINS 2111. Basketball and Volleyball Techniques. Designed to develop the teaching and/or coaching skills necessary to implement a class or team in basketball and volleyball. Three laboratory hours a week. Credit: One hour.

KINS 2121. Softball and Soccer Techniques. Designed to develop the teaching and/or coaching skills necessary to implement a class or team in softball and soccer. Three laboratory hours a week. Credit: One hour.

KINS 2131. Introduction to Outdoor Activities Techniques. Designed to teach basic skills in open-deck kayaking and canoeing, orienteering, and challenge (ropes) courses. Provide team work, and leadership opportunities through the use of outdoor group activities. Three laboratory hours a week. Credit: One hour.

KINS 2141. Disability Sport and Modified Games. Foundations of disability sports including rules, classification systems, and game implementation in sports such as wheelchair basketball, soccer, and football, goalball for the blind, and sitting volleyball. Modifications of traditional games for those with limited mobility and sensory impairments. Two laboratory hours a week. Credit: One hour.

KINS 2591. Kinesiology and Neurophysiology Laboratory. Laboratory experiences for occupational therapy majors and others enrolled in KINS 2593. Corequisite: KINS 2593. Two laboratory hours a week. Credit: One hour.

KINS 2593. Kinesiology and Neurophysiology. For majors in occupational therapy and therapeutic recreation. Kinesiological, physiological, and anatomical aspects of the nervous, skeletal, and muscular systems of the human body; psychomotor factors related to motor performance; mechanical principles and their application to human motion. Prerequisites: ZOOL 2013 and 2011, or ZOOL 2033 and 2031, or BIOL 1013 with a "C" or better. Corequisite: KINS 2591. Three lecture hours a week. Credit: Three hours.

KINS 2621. Motor and Aquatic APE Instructional Lab. On campus experience working with students with disabilities in both motor and aquatic environments. Individualized educational programs and lesson plans based on assessments. Corequisite: KINS 2622. Three laboratory hours a week. Credit: One hour.

KINS 2622. Adapted Physical Education Service Delivery. Characteristics of individuals across the lifespan; physical activity in the least restrictive environment; leisure recreation, sports, and fitness for individuals with disabilities. Prerequisites: KINS 1573 and KINS 1583 or consent of instructor. Corequisite: KINS 2621. Two lecture hours a week. Credit: Two hours.

KINS 3101. Practicum in Secondary Physical Education. Development of pedagogical strategies and direct application in middle and/or high school physical education contexts. Emphasis on the developing skills needed to effectively instruct and manage secondary physical education classes in the schools. Corequisite: KINS 3102. Three laboratory hours a week. Credit: One hour.

KINS 3102. Secondary Physical Education Pedagogy. Instruction, curriculum, planning, assessment, and classroom management as related to secondary physical education programs. Prerequisites: KINS 1573, 1583, 3573, 3811 with a “C” or better; and completion of two of the following: KINS 2031, 2071, 2101, 2111, 2121, or 2131; Junior status; All-Level PE or emphasis in APE Teacher Certification tracks only or consent of instructor. Corequisite: KINS 3101. Two lecture hours a week. Credit: Two hours.

KINS 3403. Practicum in Athletic Training. Application of principles of athletic training. Assist staff with prevention, care, and rehabilitation of athletic injuries for athletic teams. Fundamentals and applications of modalities and rehabilitation in program design. Nine laboratory hours a week. Credit: Three hours.

KINS 3501. Adapted Physical Activity Advanced Practicum. Provides educational experiences in physical activity environments that include individuals with disabilities. Specifically designed to provide an academic and professional experience. Prerequisites: KINS 2622 and 2621 or consent of instructor. May be repeated for additional credit. Three laboratory hours a week. Credit: One hour.

KINS 3503. Practicum in Physical Education. Internship in specialized fieldwork in physical education and related activities. Nine laboratory hours per week. Credit: Three hours. May be repeated for additional credit.

KINS 3573. Developmental Movement for Children. Systems for promoting motor skill acquisition and increased physical competency based on the developmental level of the individual, factors influencing motor skill development, fundamental movement skill development. Prerequisites: KINS 1573, KINS 1583, Junior status, All-Level PE or emphasis in APE Teacher Certification Tracks only or consent of instructor. Corequisite: KINS 3811. Three hours of lecture a week. Credit: Three hours.

KINS 3583. Health and Physical Activity for Children and Adolescents. Provides a theoretical and practical base for designing and implementing health and movement activities. Addresses planning, implementation, and evaluation of developmentally appropriate activities and sequencing in health and physical education settings. Prerequisite: Junior status. Three lecture hours a week. Credit: Three hours.

KINS 3591. Kinesiology and Biomechanics Laboratory. Corequisite: KINS 3592. Two laboratory hours a week. Credit: One hour.

KINS 3592. Kinesiology and Biomechanics. Scientific study of movement; analysis of fundamental movements and basic movement patterns; mechanical principles and their application to human motion; application to teaching movement. Prerequisites: ZOOL 2013 and 2011, or equivalent with a “C” or better. Corequisite: KINS 3591. Two lecture hours a week. Credit: Two hours.

KINS 3601. Physiology of Exercise Laboratory. Corequisite KINS 3602. Three laboratory hours a week. Credit: One hour.

KINS 3602. Physiology of Exercise. Physiological effects of exercise upon the human body; basic physiological concepts and their relationship to the kinesiology program. Prerequisites: ZOOL 2013, 2011, 2023, and 2021 with a “C” or better. Corequisite: KINS 3601. Two lecture hours a week. Credit: Two hours.

KINS 3633. Athletic Injuries. Physical conditioning of athletes; principles and management of specific injuries; modalities; examination, immediate treatment, rehabilitation, and taping methods for injuries. Prerequisites: ZOOL 2013, 2011, 2023, and 2021. Three lecture hours a week. Credit: Three hours.

KINS 3653. Principles of Coaching. Includes coaching philosophy, communication, motivation, sport physiology, planning, sport nutrition and management. Designed for coaches at all levels. Prerequisites: KINS 1573, KINS 1583, Junior status. Three lecture hours a week. Credit: Three hours.

KINS 3663. Evaluation of Athletic Injuries. Recognition, evaluation and functional testing specific to individual athletic injuries. Factors relating to the body's response to physical trauma; signs and symptoms indicating a need for definitive treatment. Prerequisite: KINS 3633. Two lecture and two laboratory hours a week. Credit: Three hours.

KINS 3701. Practicum in Senior Adult Fitness. Contemporary issues in senior adult fitness as it relates to community physical activity and wellness programming. A pre-internship practicum to introduce the practical experiences with older adults in a supervised University/community setting. Prerequisites: KINS 3602 and 3601 or may be taken concurrently. Three laboratory hours a week. Credit: One hour.

KINS 3801. Practicum in Coaching. Internship in specialized athletic coaching field work. Prerequisites: Completion of three of the following: KINS 2031, 2071, 2101, 2111, 2121, or 2131; KINS 3653 or may be taken concurrently, Junior status. Three laboratory hours a week. Credit: One hour.

KINS 3802. Practicum in Coaching. Internship in specialized athletic coaching field work. Prerequisites: Completion of three of the following: KINS 2031, 2071, 2101, 2111, 2121, or 2131; KINS 3653 or may be taken concurrently, Junior status. Six laboratory hours a week. Credit: Two hours.

KINS 3803. Practicum in Coaching. Internship in specialized athletic coaching field work. Prerequisites: Completion of three of the following: KINS 2031, 2071, 2101, 2111, 2121, or 2131; KINS 3653 or may be taken concurrently, Junior status. Nine laboratory hours a week. Credit: Three hours.

KINS 3811. Movement Activities for Children Internship. Internship in the specialized field of elementary school physical education. Corequisite KINS 3573. Three laboratory hours a week. Credit: One hour.

KINS 4003. Low Ropes Experiential Activities. Experiential education model applied to challenge course facilitation of low ropes. Processing skills, design and creation of activities through which participants learn by doing physically challenging group activities. Prerequisite: Junior status. Nine laboratory hours a week. Credit: Three hours.

KINS 4573. Motor Learning and Development. Changes and characteristics of motor behavior from infancy to adulthood. Effects of the individual's personality traits, and generic and environmental factors on the learning of motor skills. Two lecture and two laboratory hours a week. Prerequisites: Senior status and KINS 3602 and KINS 3601 with a "C" or better, MATH 1703 or PSY 2303. Credit: Three hours.

KINS 4593. Measurement and Evaluation in Kinesiology. Evaluation procedures used by the profession; experiences in construction and administration of tests; application of basic statistical techniques required for the interpretation of results. Prerequisites: KINS 3602 and KINS 3601 with a “C” or better, MATH 1703 or PSY 2303, Senior status. Three lecture hours a week. Credit: Three hours.

KINS 4601. Advanced Exercise Physiology Laboratory. Exercise physiology laboratory experiences pertaining to the administration of graded exercise tests and interpretation of results; exercise prescription; electrocardiographic interpretation; measurement of lactic acid, hematocrit, and hemoglobin at rest and during exercise. Corequisite: KINS 4602. Three laboratory hours a week. Credit: One hour.

KINS 4602. Advanced Exercise Physiology. Study of lifestyle related diseases and risk factors. Emphasis will be on the cardiovascular system. Basic ECG interpretation. Prerequisite: KINS 3602 and KINS 3601 with a “C” or better. Corequisite: KINS 4601. Two lecture hours a week. Credit: Two hours.

KINS 4701. Exercise Testing and Prescription Laboratory. To enhance careers in cardiac rehabilitation or corporate fitness. Content centers around diverse populations, but normal, healthy and special populations with a variety of abilities and disabilities. Laboratory techniques of exercise testing with expectation that students will perform exercise testing procedures. Skills and abilities pertaining to ASCM Health Fitness Instructor certification. Corequisite: KINS 4702. May be taken concurrently with 4602/4601. Must be completed prior to internship registration and must achieve a “C” or better to begin internships. Three laboratory hours a week. Credit: One hour.

KINS 4702. Exercise Testing and Prescription. Designed for the kinesiology major, primarily Exercise Science track, who wish to pursue careers in cardiac rehabilitation or corporate fitness. Content centers around diverse populations, both normal, healthy and special populations with a variety of abilities and disabilities. Course will familiarize students with basic knowledge about methodology of exercise testing and exercise prescription. Prerequisites: KINS 3602 and 3601 with a “C” or better. Corequisite: KINS 4701. May be taken concurrently with 4602/4601. Must be completed prior to internship registration. Two lecture hours a week. Credit: Two hours.

KINS 4801. Disability Sport Internship. Designed to provide a student with enhanced information regarding aquatics and sport for individuals with disabilities. Prerequisites: KINS 2622 and KINS 2621. Three laboratory hours a week. Credit: One hour.

KINS 4811. Inclusion in Physical Education Internship. Designed to provide a student with enhanced knowledge and experiences related to inclusionary physical education programming. Prerequisites: KINS 2622 and KINS 2621. Three laboratory hours a week. Credit: One hour.

KINS 4821. Motor and Physical Assessment of Individuals with Special Needs Internship. Designed to provide a student with enhanced information and experiences regarding the assessment process of individuals with disabilities. Prerequisites: KINS 2622 and 2621. Corequisites: KINS 4593 and KINS 4822. Three laboratory hours a week. Credit: One hour.

KINS 4822. Assessment in Adapted Physical Education. Establishing appropriate service for students with disabilities in physical education through assessment. Practice in administration of motor and/or fitness assessments. Requires developing and conducting a detailed IEP, assessment report, and programming recommendations. Prerequisites: KINS 2622 and 2621. Corequisite: KINS 4821. Two lecture hours a week. Credit: Two hours.

KINS 4903. Selected Topics.

KINS 4911. Individual Study. Study of a specific topic in Kinesiology leading to the solution of a problem of interest to the profession or the student. Prerequisite: Permission of the instructor. May be repeated for additional credit. Credit: One hour.

KINS 4913. Individual Study. Study of a specific topic in Kinesiology leading to the solution of a problem of interest to the profession or the student. Prerequisite: Permission of the instructor. May be repeated for additional credit. Credit: Three hours.

KINS 4933. Internship in Cardiac Rehabilitation. Internship in hospital-based Cardiac Rehabilitation and related activities. Minimum of 175 contact hours required; must have 350 contact hours when combined with Internship in Corporate Fitness. Kinesiology majors specializing in Exercise Science only. Credit: Three hours. Prerequisites: KINS 3701, 4602, and 4601 with a “C” or better.

KINS 4943. Internship in Corporate Fitness. Internship in Corporate Fitness and related activities. Minimum of 175 contact hours required; must have 350 contact hours when combined with Internship in Cardiac Rehabilitation. Kinesiology majors specializing in Exercise Science only. Credit: Three hours. Prerequisites: KINS 3701, 4702, and 4701 with a “C” or better.

Graduate Courses

Please refer to the Graduate Catalog or department website for information about our graduate courses.

Department of Nutrition and Food Sciences

Chair: Chandan Prasad, Professor

Location: OMB 307 (Denton), IHSH 7019B (Houston)

Telephone: (940) 898-2636 (Denton), (713) 794-2371 (Houston)

Email: nutrfdsci@twu.edu

Web-address: www.twu.edu/nutrition-food-sciences/

Telefax: (940) 898-2634

Faculty: Denton: Professors C. Bednar, N. DiMarco, V. Imrhan, C. King, C. Prasad; Associate Professors H. Mo, D. Ryu, P. Vijayagopal; Assistant Professors S. Juma, O. Kelly; Associate Clinical Professor M. Rew; Houston: Professor J. Radcliffe; Assistant Professor C. Moore; Associate Clinical Professors R. Bush, K. Moreland.

The academic programs in nutrition and food science provide opportunities for education in both liberal arts and sciences and fields of professional specialization such as medicine. Students take courses in nutrition, food science, food service management, chemistry, physiology, mathematics, and business. Graduates are prepared for careers in clinical dietetics, foodservice systems management, food industry sales or research, health and wellness programs, culinary science, community nutrition and public health, or consultation and private practice.

In addition to undergraduate programs, the department offers a dietetic internship/master's program at both Denton and Houston. Master's degrees are available in nutrition, food science, and food systems administration. The department offers a doctoral program in nutrition. The department also participates in an interdisciplinary master's degree in Exercise and Sports Nutrition and a dual degree program for M.S. in Food Systems Administration and Master of Business Administration (M.B.A.).

Admission Requirements

Please see the Admission section of this catalog.

Undergraduate Degrees

B.S. in Nutrition (emphasis areas: Dietetics, Wellness, and Nutritional Sciences) (120 hours)

B.S. in Food and Nutrition in Business and Industry (120 hours)

B.A.S. in Culinary Science and Food Service Management (120 hours)

Students are offered opportunities to follow one of the three emphasis areas within the B.S. in Nutrition program. These emphasis areas are:

- a) **Dietetics:** This program is a didactic program that prepares students for entry into a dietetic internship and to practice as entry-level dietetic practitioners. Completion of a dietetic internship qualifies a student to take a nationally certified examination to become a Registered Dietitian (R.D.). Dietetic Internship admissions are competitive, and program experiences are an additional six months to one year beyond the bachelor's degree. The Didactic Program in Dietetics (DPD) at Texas Woman's University is currently granted Initial Accreditation by the Commission on Accreditation for Dietetics Education of the American Dietetic Association, 120 S. Riverside Plaza, Suite 2000; Chicago, IL 60606, 312-899-0040.
- b) **Wellness:** The degree includes a didactic program in the areas of basic and applied nutrition, food science, kinesiology, and health studies that will build on a solid foundation of life sciences.
- c) **Nutritional Sciences:** This program is geared toward preparing students for pre-medical, pre-dental, and pre-professional degrees upon successful completion.

Bachelor of Science Degree

Nutrition: Emphasis in Dietetics (120 credit hours)

FIRST YEAR

First Semester	Second Semester
ENG 1013 Composition & Lit..... 3	ENG 1023 Composition & Literature.....3
HIST 1013 History of U.S. 1492-1865..... 3	HIST 1023 History of U.S. 1865-Present.....3
NFS 1302,1301 Food Prep Principles & Lab 3	GOV 21013 U.S. Nat. Gov3
CSCI 1403 First Course in Computing..... 3	MATH 1013 Quantitative Literacy3
Visual/Perform. Arts (from approved list)*3	PSY 1013 Intro to General Psych.....3
Total Hours 15	Total Hours 15

SECOND YEAR

First Semester	Second Semester
CHEM 1013, 1011, Gen Chem + Lab 4	NFS 2323 Intro to Nutrition.....3
SPCH 1013 Oral Communication..... 3	GOVT 2023 Texas Gov3
NFS 2033,2031 Food Microbiology & Lab 4	CHEM 1023,1021 Intro to Organic Chem & Lab4
Multicultural Women's Studies..... 3	MATH 1703 Statistics3
(from approved list)*.....	ZOOL 2033, 2031 Anatomy & Phys4
Humanities (from approved list)*..... 3	+ Lab
Total Hours 17	Total Hours 17

THIRD YEAR

First Semester	
NFS 3033 Nutrition throughout Life Cycle	3
NFS 3043 Community Nutrition	3
BUS 3003 Principles of Management	3
NFS 3083 Bionutrition.....	3
Elective (Global Persp)**	3

Total Hours 15

Second Semester	
NFS 3103,3101 Advanced Nutrition Lab	1
NFS 3713, 3722 Quantity Foods + Lab	5
NFS 3173 Culture & Food (Global Persp)**	3
NFS 3323, 3321 Food Science.....	4

Total Hours 13

FOURTH YEAR

First Semester	
NFS 4103 Medical Nutrition Therapy I.....	3
NFS 4701 Dietetics as a Profession	1
NFS 4744 Prin of Food Service Systems... ..	4
NFS 4302 Adv. Nut/Micronutrients.....	2
NFS 4303 Adv Nut/Macronutrients	3
Electives	3

Total Hours 16

Second Semester	
NFS 4113 Medical Nutrition Therapy II.....	3
NFS 4473 Nutrition Therapy & Education Methods.....	3
NFS 4601 Literature in NFS Seminar.....	1
NFS 4301 Nutritional Genomics.....	1
Electives	4

Total Hours 12

*Approved list of core courses in each component available at
www.twu.edu/academic-affairs/core-curriculum.asp

**Approved list of Global Perspectives courses available at
www.twu.edu/academic-affairs/global-perspectives-courses.asp.

In order to become eligible to enter a dietetic internship, students must successfully complete the Didactic Program in Dietetics (DPD) and receive a Verification Statement from the DPD Director at Texas Womans University. The requirements for verification are as follows:

1. Earn a grade of "B" or better in NFS 1302,1301 and NFS 2323, 3033, and 3043 either at TWU or another accredited college in the United States.
2. Earn a grade of "C" or better in all other DPD required courses.
3. Earn an overall GPA of 3.0.
4. Complete required courses in mathematics, statistics, business, chemistry, anatomy and physiology, psychology, and computer science.
5. Complete a minimum of 24 hours of advanced undergraduate nutrition, food science, and foodservice management courses at TWU selected from the following list: NFS 3033, NFS 3043, NFS 3101, and NFS 3103; NFS 3323 and NFS 3321; NFS 3713 and NFS 3722; NFS 4744; NFS 4103 and NFS 4113; NFS 4473 and NFS 4701.

Bachelor of Science Degree

Food and Nutrition in Business and Industry (120 credit hours)

This program allows students to pursue careers in management of food service systems or sales, quality assurance, or research positions in the food industry.

Required Courses in Nutrition and Food Sciences

NFS 1302,1301. Food Preparation Principles and Lab
NFS 2323. Introduction to Nutrition
NFS 3033. Nutrition Throughout the Life Cycle
NFS 3041. Food Protection Management
NFS 3043. Community Nutrition
NFS 3063. Ecology of Foods and Nutrition
or NFS 3173. Culture and Food
NFS 3323,3321. Food Science and Lab
NFS 3722,3713. Quantity Food Production and Service and Lab
NFS 4023. Food Product Development
NFS 4744. Principles of Foodservice Systems
NFS 4943. Trends and Controversies in Nutrition and Food Sciences

Other Required Courses

Six hours of upper division Business courses including:
BUS 3003. Principles of Management.
NFS 2033,2031. Food Microbiology
CHEM 1013,1011. Introductory Chemistry and Lab
CHEM 1023,1021. Introduction to Organic and Physiological Chemistry
and Lab
CSCI 1403. Microcomputer Applications
SPCH 1013. Oral Communications or BUS 3513 Professional Presentation
Strategies

Required Minor for B.S. Food and Nutrition in Business and Industry (18 hours)

Required minor including at least 6 advanced hours (3000 or 4000 level). Suggested minors include: business administration, management, marketing, and psychology.

Program Description – B.A.S. in Culinary Science and Food Service Management

This degree program builds upon the foundation of the A.A.S. in Culinary Arts degree (state and SACS approved) granted at the community college level. The B.A.S. is to be completed at Texas Woman's University with upper division courses in nutrition, food service management, and food sciences as well as completion of the core curriculum. Students will be prepared both in culinary arts and in principles of nutrition and food service management. The program will focus on the planning and provision of food services, the development of consumable food

products, life-span nutrition, and the variation of food products and nutrition in community and global futures.

Students admitted to the B.A.S. in Culinary Science and Food Service Management wishing to change majors will need to re-apply to TWU; the culinary transfer credit will be removed from the TWU transcript in such cases.

Teacher Certification in Hospitality, Nutrition, and Food Science

Students majoring in either Dietetics and Institutional Administration or Food and Nutrition in Business and Industry may receive teacher certification to teach Hospitality, Nutrition, and Food Science in Texas schools, grades 8-12, by completing 20 hours of education courses, 20 hours of family science courses, and 8 hours of related studies. See the Family Sciences section of this catalog for more information.

Nutrition and Food Sciences Undergraduate Courses

NFS 1301. Food Preparation Principles Laboratory. (HECO 1315) Laboratory experience in food preparation. Corequisite: NFS 1302. Three laboratory hours a week. Credit: One hour.

NFS 1302. Food Preparation Principles. (HECO 1315) Application of nutrition knowledge and basic scientific principles of meal management, selection, preparation, and safety of food. Corequisite: NFS 1301. Two lecture hours a week. Credit: Two hours.

NFS 1303. Personal Nutrition. Science of nutrition and food as applied to daily food and dietary choices, weight control, diet, and disease prevention and food safety. Introduction to nutrition for non-science majors. Three lecture hours a week. Credit: Three hours.

NFS 2031. Food Microbiology Lab. Evaluations of microorganisms as spoilage agents in foods. Preservation techniques to retard microbial spoilage. Foods which require microbial fermentations in their processing procedures; conditions which result in "food-borne" illnesses. Three laboratory hours a week. Credit: One hour.

NFS 2033. Food Microbiology. Microbial diversity and environmental interactions with emphasis on organisms found in fresh and spoiled foods. Contamination, preservation methods, and spoilage mechanisms of different foods. Effects of microbial enzymes on foods. Food sanitation, control, and inspection; and food-related illnesses. Three lecture hours a week. Credit: Three hours.

NFS 2323. Introduction to Nutrition. (HECO 1322) (BIOL 1322) Principles of normal nutrition including study of the major nutrients, their interrelationships, and their role in health. Recommended: One semester of chemistry or physiology. Three lecture hours a week. Credit: Three hours.

NFS 2343. Nutritional Management for the Family and Child. (TECA 1318) Applications of principles of food and nutrition to the family and child. Study of nutritional needs of the social, cultural, economic, and governmental factors which influence the health and welfare of family members. Three lecture hours a week. Credit: Three hours.

NFS 3033. Nutrition Throughout the Life Cycle. Relationship of nutritional requirements to the stages of the life cycle from conception through aging. Prerequisite: NFS 2323 or NFS 2013. Three lecture hours a week. Credit: Three hours.

NFS 3041. Food Protection Management. Identification of causes of food-borne disease. Application of control measures to prevent food safety problems according to HACCP (Hazard Analysis Critical Control Point) principles. One lecture hour a week. Credit: One hour.

NFS 3043. Community Nutrition. Identification of nutritional problems and resources available in the community. Management of nutrition services, provision of nutrition information/education to the public, and the legislative process. Prerequisite: NFS 2323 or NFS 2013. Three lecture hours a week. Credit: Three hours.

***NFS 3063. Ecology of Food and Nutrition.** Discussion of factors which affect choice of foods. Examination of the interaction of cultural, socioeconomic, political, physiological, and ecological factors that impact food availability, consumption, and ultimately nutritional status on global basis. Three lecture hours a week. Credit: Three hours.

***NFS 3073. Nutrition for Women in a Global Environment.** Application of nutrition principles to promote health in women throughout the life cycle nationally and globally. Emphasis on nutrition to maintain health and reduce risk of obesity, osteoporosis, cardiovascular disease, cancer, and diabetes in women of different ethnic and cultural backgrounds. Three lecture hours a week. Credit: Three hours.

NFS 3081. Principles of Culinary Science. Applications of basic mathematics concepts, general principles of science, and information technology to develop new products, to describe and analyze basic food and food systems, and to determine the objective and subjective properties of food and food ingredients. One lecture hour a week. Credit: One hour.

NFS 3083. BioNutrition. Fundamental principles of biochemistry for nutrition, covering protein, carbohydrate, fat, vitamin and energy metabolism; underlying causes and rationale for the prevention and treatment of diseases. Prerequisite: NFS 2323. Three lecture hours a week. Credit: Three hours.

NFS 3101. Advanced Nutrition Laboratory. Laboratory experience in assessing nutritional status and nutrients in food. Three laboratory hours a week. Credit: One hour.

NFS 3103. Advanced Nutrition. Advanced study of fundamental nutrition concepts as related to the chemistry and physiology of the human body; recent advances in nutrition problems. Prerequisites: NFS 2323, CHEM 3603, and ZOOL 2031, 2033 or equivalent courses; or permission of instructor. Three lecture hours a week. Credit: Three hours.

NFS 3131. Food Science for Culinary Majors Lab. Apply concepts of food science in a laboratory setting including interpreting laboratory data and following written and oral technical instructions. Prerequisite: CHEM 1011, 1013. Corequisite: NFS 3133. Three laboratory hours a week. Credit: One hour.

*Satisfies core requirement for Global Perspectives.

NFS 3133. Food Science for Culinary Majors. Application of chemical and physical properties of basic food ingredients; major processing and preservation principles with science and technology. Prerequisite: CHEM 1011,1013. Corequisite: NFS 3131. Three lecture hours a week. Credit: Three hours.

NFS 3163. Sports Nutrition. Physiological effects of exercise and nutrition upon the human body. Current topics of interest, current research, and their relationship to athletic performance. Three lecture hours a week. Credit: Three hours.

***NFS 3173. Culture and Food.** Study of influence of culture on food habits in various countries and the accompanying health effects. Evolution of cultural food habits are related to nationality, ethnicity, religion, and the changing role of women. Three lecture hours a week. Credit: Three hours.

NFS 3321. Food Science Laboratory. Introduction to the techniques of food processing and preparation, food analysis, and new product development. Corequisite: NFS 3323. Three laboratory hours a week. Credit: One hour.

NFS 3323. Food Science. Application of chemical and physical properties of basic food ingredients; major processing and preservation principles and application of science technology to various food products. Sensory evaluation of foods. Emphasis on current topics of the national and local food industry. Prerequisites: NFS 1301, 1302 and CHEM 1013, 1023. Three lecture hours a week. Credit: Three hours.

NFS 3473. Preventive Nutrition. Major causes of morbidity and mortality; dietary nutrients that play a role in the prevention of disease; dietary guidelines for health promotion; educational materials to promote healthy living. Prerequisites: NFS 2323 and NFS 3033 or equivalents. Three lecture hours a week. Credit: Three hours.

NFS 3713. Quantity Food Production and Service. Principles of food preparation, food safety, and quality improvement applied to quantity food production and service. Institutional menu planning, production planning, and cost determination; food purchasing. Marketing theory and materials management for foodservice systems. Prerequisites: NFS 1301, 1302 or equivalent; NFS 2323, BACT 2011 or equivalent. Corequisite: NFS 3722. Three lecture hours a week. Credit: Three hours.

NFS 3722. Quantity Food Production and Service Laboratory. Supervised experiences in quantity food production and service. Corequisite: NFS 3713. Six laboratory hours a week. Credit: Two hours.

NFS 4023. Food Product Development. Group and individual experiments in development of new food products. Objective and sensory evaluation of the effects of varying the type and amount of ingredients and methods of preparation on the quality of the finished product. Prerequisites: NFS 3323 or NFS 3133. Two lecture hours and three laboratory hours a week. Credit: Three hours.

NFS 4031. Therapeutic Culinary Sciences Lab. Application of food preparation for medical nutrition therapy. Development and modification of recipes for healthcare foodservice use. Sensory evaluation of modified recipes. Prerequisite: Admission to the B.A.S. in Culinary Science. Corequisite: NFS 4032. Three laboratory hours a week. Credit: One hour.

NFS 4032. Therapeutic Culinary Science. Medical nutrition therapy and menu planning for diabetics, hypertensive, dyslipidemic, and other patients with special dietary needs. Prerequisite: Admission to the B.A.S. in Culinary Science. Corequisite: NFS 4031. Two lecture hours a week. Credit: Two hours.

NFS 4103. Medical Nutrition Therapy I. Concepts of appropriate therapeutic nutrition as applied in the treatment of human disease. Prerequisites: NFS 3101, 3103 and ZOOL 2031, 2033 or permission of instructor. Three lecture hours a week. Credit: Three hours.

NFS 4113. Medical Nutrition Therapy II. Concepts of appropriate therapeutic nutrition as applied in the treatment of human disease. Prerequisites: NFS 3101, 3103, ZOOL 2031, 2033, and NFS 4103 or permission of the instructor. Three lecture hours a week. Credit: Three hours.

NFS 4123. Sensory Evaluation of Foods. The anatomy, physiology, and functions of human senses used to evaluate the sensory qualities of foods and food ingredients. Application of sensory evaluation methods to assess qualities of foods including taste, texture, appearance, and flavor. Use of experimental designs and statistical tests necessary to analyze and present sensory evaluation data. Prerequisite: NFS 3081. Three lecture hours a week. Credit: Three hours.

NFS 4473. Nutrition Therapy and Education Methods. Principles and techniques of therapy and educational methods applied to nutrition and foodservice management, communication skills, and evaluation methods. Prerequisite: Senior standing. Corequisite: NFS 4103 or 4113 or permission of instructor. Two lecture hours and two practicum hours a week. Credit: Three hours.

NFS 4501. Careers in Culinary Science. Examines various career options such as Research Chef, Chef Scientist, Chef Manager, Foodservice Administrator in hospitals and schools, Foodservice Manager, and business owner. One lecture hour a week. Credit: One hour.

NFS 4601. Literature in Nutrition and Food Sciences Seminar. Student presentations based on library or laboratory research projects. May be repeated for a total of three credits. Prerequisite: NFS 2323 or equivalent or permission of the instructor. One lecture hour a week. Credit: One hour.

NFS 4701. Dietetics as a Profession. A discussion of the professional responsibilities of the dietitian with emphasis on nontraditional careers; ADA's organization and structure; routes to registration, and the application process for internship. Prerequisites: NFS 2323 and senior standing. One lecture hour a week. Credit: One hour.

NFS 4744. Principles of Foodservice Systems. Management principles, strategic management, risk management, layout evaluation and equipment selection, human resources management, and financial management of foodservice systems. Prerequisites: NFS 3713, 3722 or equivalent. Four lecture hours a week. Credit: Four hours.

NFS 4911. Independent Study. Intensive study of a topic of individual or professional interest in nutrition and food sciences. Credit: One hour.

NFS 4913. Independent Study. Intensive study of a topic of individual or professional interest in nutrition and food sciences. Credit: Three hours.

NFS 4941. Current Topics in Nutrition and Food Sciences. An in-depth examination of topics of current interest in the area of nutrition or food science. Prerequisites: NFS 1301/1302 Food Preparation Principles or NFS 2323. May be repeated for credit. One lecture hour a week. Credit: One hour.

NFS 4943. Trends and Controversies in Nutrition and Food Sciences. An in-depth examination of recent research on topics of current interest such as food safety, role of nutrients in cancer prevention, and nutrition policy. Prerequisite: NFS 2323 or equivalent. Three lecture hours a week. Credit: Three hours.

NFS 4953, 4956. Cooperative Education.

NFS 4983. Research in Nutrition and Food Sciences. Participate in ongoing projects of faculty. May be repeated once. Prerequisites: CHEM 1023, NFS 3103, NFS 4601, and permission of the department chair. Nine laboratory hours a week. Credit: Three hours.

Graduate Courses

Please refer to the Graduate Catalog or department website for information about our graduate courses.

School of Occupational Therapy

Interim Director: Catherine Candler, Associate Professor

Denton Campus Location: MCL, 8th Floor

Telephone: (940) 898-2801

Fax: (940)-898-2806

Email: ot@twu.edu

Internet: www.twu.edu/ot

Faculty: Denton: Associate Professor C. Evetts; Assistant Professors H. Amerih, G. Poskey; Associate Clinical Professors J. Aven, D. Brown, S. Harnish, E. Raffan.

Dallas: Professor S. Schultz; Associate Professors R. Campbell, C. Candler, M. Neville; Assistant Professors N. Pickens; Assistant Clinical Professors D. Buckingham, T. Fletcher; Clinical Instructor: J. Lipoma;

Houston: Professor S. Chan, G. Hersch; Associate Professors F. Baxter, O. Bowman, P. Bowyer, H. Davidson; Assistant Professor P. Chang.

Occupational therapy is a health care profession whose members work to foster full participation in everyday life for persons with physical, cognitive, emotional, or societal restrictions. Occupational therapy is based on the premise that engagement in real life activities in prescribed areas with specific goals promotes health and wellness.

To enter a career as an occupational therapist a graduate degree is required. The School of Occupational Therapy participates in an accelerated plan of study on the Denton campus that is structured for students who are entering or currently engaged in undergraduate course work. This plan, the pre-OT degree plan, combines the undergraduate and graduate levels of study needed to become a registered occupational therapist. This plan potentially enables a beginning undergraduate student to complete the Master of Occupational Therapy degree in 5 years.

The Pre-OT Degree Plan

Five majors at Texas Woman's University offer pre-OT degree plans. Undergraduates who want to prepare for application to the Master of Occupational Therapy program select a major in child development, family studies, kinesiology,

psychology, or health studies. Please refer to these programs for specific course and major information. TWU undergraduate core requirements, the required courses in the major, and the prerequisite courses for the Master of Occupational Therapy program are included in the pre-OT degree plan. All undergraduate advising is conducted within the major department. In addition to undergraduate advising within the major department, the School of Occupational Therapy hosts a mandatory information seminar each fall and spring semester. At the seminar pre-OT students receive information concerning the profession, network with current Master of Occupational Therapy students, and are updated on the Master of Occupational Therapy selection process.

Transfer students

Students can transfer any coursework from an accredited institution. The university and the major departments of child development, family studies, kinesiology, psychology, or health studies determine which courses may be applied to the undergraduate degree. It is expected that community college students will be able to transfer two years of coursework and be able to complete the undergraduate major requirements in no more than three semesters at TWU. Progress may be accelerated by transferring to TWU before completing an associate degree.

Admission Process into School of Occupational Therapy Courses

The fall preceding the last semester of undergraduate major coursework, pre-OT students may apply to the School of Occupational Therapy for approval to take occupational therapy courses. Enrollment in a pre-OT degree plan as an undergraduate student does not guarantee admission into occupational therapy courses. A predetermined number of students can be accepted based on availability of clinical facilities, space, and faculty. Entrance is competitive. Selection is based on:

- Academic performance
- On-campus interview
- Writing sample
- Therapist recommendation after completion of 20 volunteer hours with an occupational therapist
- Total number of students that can be admitted in the program

Application for approval to begin School of Occupational Therapy courses must be submitted by **September 15th** for the subsequent fall semester. Selection is made by January preceding the student's completion of all requirements of their major with the exception of occupational therapy courses. Applicants who are not selected for admission into occupational therapy courses have ample time to meet with their undergraduate advisors, explore alternatives, adjust goals and plan for timely graduation in their major.

Minimum requirements to apply to take occupational therapy courses

- An advisor and major department approved pre-OT degree plan
- Consistent attendance at the pre-OT information seminars (held once each fall and spring semester during undergraduate work under a pre-OT degree plan)
- Completion of all core and major courses before entry into occupational therapy courses
- A cumulative GPA of 3.0 or above in higher education (includes all courses completed, at TWU or elsewhere, at the time of application.)
- Submission of a School of Occupational Therapy application
- A grade of a B (3.00) or higher for each prerequisite course (each course can repeated only once; both the original and repeat grade will be included in the pre-requisite average.)
- Pre-requisites differ somewhat by undergraduate major but have the following content:
 - Math Sciences
 - Elementary Statistics
 - Biological Sciences
 - Anatomy & Physiology I
 - Anatomy & Physiology II
 - Kinesiology/ biomechanics
 - Neuroanatomy/Physiology Lecture
 - Neuroanatomy/Physiology Lab
 - Behavioral Sciences
 - Developmental Psychology or lifespan development
 - Abnormal Psychology
 - Introduction to Psychology
- A minimum of 20 hours of recent volunteer work under the immediate supervision of an occupational therapist. This must be done no more than 2 years before applying for permission to enroll in OT course work. The applicant is responsible for arranging the volunteer experience and securing the recommendation materials from the School of OT at www.twu.edu/ot.

Selection Process

- After initial eligibility is established, the Occupational Therapy Admissions Committee reviews all application packets. Individuals from this group are selected and invited to attend an interview on the Denton campus.
- The Admissions Committee meets approximately two weeks after the Interview. Students are recommended for acceptance on the basis of academic proficiency, ratings by clinical supervisor and interviewers, and ability to communicate well in writing. All applicants are notified in writing as to acceptance status. If accepted into occupational therapy courses, proof of immunization record and a background check will be required.

The Master of Occupational Therapy program

Pre-OT students who are approved to take occupational therapy courses begin taking them within the School of Occupational Therapy the fall semester following their approval. The undergraduate degree plan determines whether the student completes one or two semesters of occupational therapy courses as part of the undergraduate degree. One semester prior to undergraduate degree completion, students taking occupational therapy courses apply to the Graduate School. To be accepted into the Master of Occupational Therapy program as a graduate student the student must meet the requirements of the Graduate School and earn a cumulative grade point average of 3.0 or above in all occupational therapy courses completed. Once accepted by the Graduate School pre-OT students transition from undergraduate to master's level and are admitted to the Master of Occupational Therapy program. To complete the Master of Occupational Therapy degree, the student must complete the remaining graduate course work in occupational therapy and six months of full-time occupational therapy internship. Further information about the Master of Occupational Therapy degree is available in the TWU Graduate Catalog. The Master of Occupational Therapy program is accredited by the Accreditation Council of Occupational Therapy Education (ACOTE*). With successful completion of the Master of Occupational Therapy degree, the student is eligible to apply for the certification examination given by the National Board for Certification of Occupational Therapy (www.nbcot.org). *Note: Students are advised that NBCOT may deny an individual's application to take the exam if he or she has a criminal felony conviction. The School of OT recommends that students with a felony conviction contact NBCOT for an "early determination review."*

*ACOTE

PO Box 31220

Bethesda, MD 20824-1220

301-652-2682

Example of a Typical Pre-OT Degree Plan

The following sample Kinesiology degree plan illustrates the typical requirements to complete the undergraduate degree as a pre-OT student. There are differences in degree requirements dependent upon which major the student selects. For information about the Master of Occupational Therapy degree please refer to the TWU Graduate Catalog.

374 Occupational Therapy

Pre-OT Kinesiology (120 hours)

FIRST YEAR

First Semester	Second Semester
ENG 1013 Composition I 3	ENG 1023 Composition II 3
MATH 1013 Quantitative Literacy 3	MATH 1703 Elementary Statistics 3
KINS 1573 Evolving Discipline 3	KINS 1581 Fitness through 1
*KINS 1583 Foundations of Assessment.. 3	Selected Activities
ZOOL 2013/2011 Anatomy 4	HS 1902/1901 Fitness & Health 3
& Physiology I	ZOOL 2023/2021 Anatomy & Physiology II 4
	Visual/Perf Arts (core, global) 3
Total Hours 16	Total Hours 17

SECOND YEAR

First Semester	Second Semester
KINS 2622/2621 APE Service Delivery/. 3	PHYS 1133/1131 Principles of Physics I..... 4
Motor & Aquatic APE Instr. Lab	KINS 3602/3601 Physiology of Exercise 3
Humanities (core, global) 3	HIST 1023 U.S. History 1865-present 3
HIST 1013 U.S. History 1492-1865 3	PSY 1603 Developmental Psychology 3
GOV 2013 U.S. Gov't 3	NFS 2323 Intro to Nutrition..... 3
PSY 1013 Intro to Psychology 3	KINS 3701 Practicum in Senior 1
GOV 2023 Texas Gov't 3	Adult Fitness
Total Hours 18	Total Hours 17

THIRD YEAR

First Semester	Second Semester
KINS 3592/3591 Kinesiology & 3	PSY 2513 Abnormal Psychology 3
Biomechanics	KINS 4573 Motor Learning & Development 3
ZOOL 3123/3121 Neuroanatomy 4	KINS 4933 Practicum in Exercise Sci 3
& Neurophysiology	KINS 4933 Practicum in Exercise Sci 3
KINS 4602/4601 Adv. Exercise Physiology3	
KINS 4702/4701 Exercise Testing/..... 3	
Prescription	
Multicultural Women's Studies (core) 3	
Total Hours 16	Total Hours 12

FOURTH YEAR

First Semester	Second Semester
OT 4013 Foundational Bases 3	OT 5312 OT Practice Methods 2
OT Processes	OT5322 Infancy & Childhood Application .. 2
OT 4022 Wellness through Adapt. & Occ. 2	OT5324 Infancy & Childhood 4
OT 4033 Analysis of Person,..... 3	OT 5332 Ways of Doing 2
Tools, & Occ.	OT 5342 Qualitative Research Methods..... 2
OT 4041 Exploration of Scholarly Inquiry 1	
OT 4352 Assessment In OT Processes..... 2	
OT 4061 Observation of Adapt..... 1	
in the Comm.	
Total Hours 12	Total Hours 12**

*Satisfies oral communication core requirement.

**Students must also enroll in OT 5911 & OT 5361 during the fourth year spring semester. These courses are not required for the undergraduate degree, but are required for progression into the 2nd year of OT coursework as a graduate student.

All students must complete six credit hours in approved Global Perspectives courses, either in the core or major courses (graduation requirement).

Requirements for Occupational Therapy Courses under a Pre-OT Degree Plan

1. A grade of C or better must be earned in all occupational therapy courses.
2. A cumulative GPA of 3.0 must be maintained in all occupational therapy courses.
3. Occupational therapy courses may not be repeated.
4. Students must successfully complete each semester's course work to progress in the curriculum.
5. Each student must present proof of ownership of malpractice insurance available in the state of Texas each academic year of enrollment.
6. Proof of immunizations is required as mandated by the state of Texas, OSHA, and Texas Woman's University.
7. The responsibility of meeting the access requirements of agencies providing fieldwork placement belongs to the student. The School of Occupational Therapy does not guarantee student fieldwork placement. Inability to complete fieldwork requirements may result in a delay or failure to complete the MOT program.

General requirements to complete the degree of Master of Occupational Therapy are documented in the TWU Graduate Catalog

Occupational Therapy Courses Included in Pre-OT Degree Plans

OT 4013. Foundational Bases and Occupational Therapy Processes. Overview of occupational therapy history, theories, ethics, and standards. Introduction to the OT process with an emphasis on the OT Practice Framework along with fundamental medical and OT terminology. Three lecture hours a week. Credit: Three hours.

OT 4022. Wellness Through Adaptation and Occupation. Occupation as it occurs in the state of wellness and the model by which adaptation emerges during occupational performance. Identification of the occupational self in a variety of contexts. Two lecture hours a week. Credit: two hours.

***OT 4033. Analysis of Person, Tools, and Occupations.** Use of culturally relevant resources to analyze meaningful, purposeful activities in intervention.° OT Process will be explored using observation and activity analysis. Identification of the occupational self in a variety of contexts. Two lecture and two laboratory hours a week. Credit: Three hours.

OT 4041. Exploration of Scholarly Inquiry. Introduction to scholarly inquiry as it applies to occupational therapy. Critical thinking as a means of exploring the domains of knowledge in occupational therapy. One lecture hour a week. Credit: one hour.

*Satisfies oral communications core requirement.

OT 4061. Observation of Adaptation in the Community. Exploration of occupation in the context of the community environment through selected tools and evaluation methods. Experienced professionals from related fields will facilitate the student's professional development as a community resource. One hour seminar. Credit: One hour.

OT 4332. Occupational Performance Areas. Exploration, analysis, and examination of self-care, work and play/leisure activities and their relationship to development, health and the environment. Appropriate OT assessment tools and intervention techniques for play/leisure across the lifespan, activities of daily living and basic work and ergonomic assessment. One lecture and two lab hours a week. Credit: Two hours.

OT 5312. Occupational Therapy Practice Models. Selected knowledge bases, frames of reference, and practice models related to human occupations, occupational performance, and occupational adaptation in the human system and related contexts of age, life course, disability, and environment. Two lecture hours a week. Credit: Two hours.

OT 5322. Occupational Adaptation: Birth to Adolescence Laboratory. Practice in selection, analysis, and intervention using occupations and therapeutic strategies appropriate to infants and children. Prerequisite: OT 5122; Co-requisite: OT 5324. Three laboratory hours a week. Credit: One hour.

OT 5324. Occupational Adaptation: Birth to Adolescence. Study of medical, educational, and psychosocial problems of congenital or developmental origin that interfere in development of occupational performance adaptation. Methods and contexts for occupational therapy assessment and intervention programs. Prerequisite: OT 5122; Co-requisite: OT 5321. Four lecture hours a week. Credit: Four hours.

OT 5332. Ways of Doing: Self-Care, Work, Play/Leisure. Exploration of daily living activities, analyzing and examining the ways engaging in occupation promotes development and health. Evaluation of occupational performance areas, including types of environments and processes. Prerequisite: OT 5132. One lecture and three laboratory hours a week. Credit: Two hours.

OT 5342. Qualitative Research Methods in Occupational Therapy. Methods of qualitative research, understanding basic qualitative coding strategies, evaluating the applicability of research studies based on qualitative methods, and the use of such research to make practice decisions. Prerequisite: OT 5141. Two lecture hours a week. Credit: Two hours.

OT 5361. Occupational Adaptation Contexts of Childhood. Placement with qualified professionals in community and daily living settings for children. Analysis of children's occupational adaptation in various contexts. Prerequisite: OT 4061 or OT 5161. Two laboratory and one seminar hours a week. Credit: One hour.

Remaining Occupational Therapy Courses Required to Complete the MOT Degree (see graduate catalog for course descriptions)

(Complete one of the following series)

- OT 5012. Systematic Inquiry in Occupational Therapy I
- OT 5022. Systematic Inquiry in Occupational Therapy II
- OT 5032. Systematic Inquiry in Occupational Therapy III
- OR
- OT 5102. Professional Paper in Occupational Therapy I
- OT 5202. Professional Paper in Occupational Therapy II
- OT 5302. Professional Paper in Occupational Therapy III

- OT 5524. Occupational Adaptation: Adolescence to Middle Adulthood
- OT 5532. Occupational Contexts
- OT 5542. Quantitative Research Methods in Occupational Therapy
- OT 5551. Advanced Occupational Therapy Process
- OT 5722. Occupational Adaptation: Middle to Late Adulthood Laboratory
- OT 5724. Occupational Adaptation: Middle to Late Adulthood
- OT 5732. Use of Specific Tools in Practice
- OT 5753. Designing, Evaluating, and Management Principles
- OT 5761. Application of Supervision and Management Principles

(Complete two of the following four courses)

- OT 5812. Issues in Knowledge Bases
- OT 5822. Issues in Adaptation
- OT 5832. Issues in Practice Tools
- OT 5852. Issues in Occupational Therapy Process

Full-time Internships (complete two of the below three sets of courses)

- OT 5916. Adaptation to Physical Challenges in Adult Years I.
- OT 5926. Adaptation to Physical Challenges in Adult Years II.
- OT 5936. Adaptation to Psychosocial Challenges Across the Life Span I
- OT 5946. Adaptation to Psychosocial Challenges Across the Life Span II
- OT 5956. Adaptation to Physical or Psychosocial Challenges in Early Years I
- OT 5966. Adaptation to Physical or Psychosocial Challenges in Early Years II
- OT 5976. Alternative Clinical Experience I
- OT 5986. Alternative Clinical Experience II

***Master of Arts & Advanced Specialty Certificate Courses and
Doctor of Philosophy Courses***

Please refer to the Graduate Catalog or the department website for information about graduate courses.

School of Physical Therapy

Director: Sharon Olson, Professor

Location: HDB 202 (Denton), IHSD 201 (Dallas), IHSH 7136 (Houston)

Telephone: (940) 898-2460 (Denton), (214) 706-2300 (Dallas), (713) 794-2070 (Houston)

www.twu.edu/physical-therapy

Faculty: Professors W. Bartlett, P. Gleeson, V. Lovelace-Chandler, S. Olson, L. Petterborg, T. Roddey, M. Sabbahi, M. Thompson; Associate Professors C. Costello, E. Jackson, C. Kelley, B. MacNeill, S. Lin, S. Medley, K. Mitchell, S. Wang; Assistant Professors E. Arguello, L. Csiza, K. Luedtke-Hoffmann, E. Norris, H. Tapley; Associate Clinical Professor R. Patel; Assistant Clinical Professors D. Anderle, A. O'Donnell.

To enter a career as a physical therapist, a graduate degree, the Doctor of Physical Therapy, is required. Undergraduate students at Texas Woman's University have the opportunity to complete the prerequisites for the program while also completing a bachelor's degree. Pre-Physical Therapy degree plans are offered in biology, kinesiology, health studies, and psychology that include physical therapy prerequisites. TWU offers a special undergraduate accelerated pre-Physical Therapy program to assist students entering the profession.

The Doctor of Physical Therapy (DPT) is a professional degree at the doctoral level accredited by the Commission on Accreditation of Physical Therapy Education. Upon completion of course requirements for the professional degree, a graduate is eligible* to apply for licensure to practice physical therapy and for active membership in the American Physical Therapy Association. The DPT program is a 33-month, 98 semester-credit-hour program. Students are in class year round. As part of the professional curriculum requirements, students participate in additional enrichment with patient-related activities. During the second and third years students must be prepared to spend a total of 32 weeks at four different clinical sites which may necessitate additional expense for housing and transportation.

Graduate Physical Therapy programs are also available including the Ph.D. program for those who already are physical therapists but who wish to pursue advanced studies and a transitional DPT (tDPT) degree is for licensed, physical therapists to obtain a doctorate-level degree in physical therapy. The tDPT is a hybrid program, combining on-site and online content at both Houston and Dallas. Onsite component of classes typically consists of 2-3 weekends per semester, with the remainder online.

*Students must meet all requirements for licensure according to state law and must not have committed any acts which would cause denial.

Undergraduate Accelerated Pre-Physical Therapy Program

Undergraduate students with the goal of becoming a physical therapist declare an undergraduate major in biology, kinesiology, health studies or psychology and follow pre-PT degree plans. Students are counseled by their undergraduate major advisors and physical therapy faculty to develop a degree plan. Students may be able to complete the majority of requirements for these majors while completing prerequisites for physical therapy by the end of the junior year, enabling students to complete the undergraduate degree and the DPT in Physical Therapy in a total of six years. In addition to this accelerated plan, students who complete a bachelor's degree and the PT prerequisites, may begin the DPT program after completing their undergraduate degree.

The DPT program is available in both Dallas and Houston. Applicants must indicate the center for which they are applying. Students at both locations are encouraged to have transportation available to visit clinical facilities at some distance from the centers.

Admission to the Physical Therapy DPT program is competitive; students in the accelerated sequence; students in the accelerated sequence compete with other applicants for admission to the program in physical therapy.

Students may apply to the DPT program when they

- have junior standing,
- complete Physical Therapy prerequisites except for courses* in physical therapy,
- have met requirements for admission to the Graduate School, and
- have met the admission to the Physical Therapy program.

*Seniors who are in their last semester are allowed to register for graduate courses that will apply to the degree. Specific course selection is guided by Physical Therapy program rules and advisors.

Prerequisites for DPT Admission

- Two semesters of biology or zoology with laboratory. Courses not accepted as meeting these prerequisites are biology for nonscience majors, anatomy, physiology, kinesiology, botany and ecology.
- Two semesters of chemistry with laboratory.
- Two semesters of basic physics with laboratory. Physics for non-science majors does not meet this prerequisite.
- One semester of college algebra and one semester of college trigonometry or one semester of pre-calculus or one semester of calculus.
- Two semesters of psychology, not to include statistics.
- One semester of statistics - 3 hours.
- One semester of physiology (preferably human); or two semesters of anatomy and physiology; or one semester of anatomy and physiology and one semester of exercise physiology.

- Competency in medical terminology.
- Completion of First Aid Course.
- Completion of Health Care Provider CPR course (adult, child, infant).

DPT Application Requirements

Admission to the professional DPT curriculum in physical therapy is competitive and separate from admission to the university. A predetermined number of students can be accepted based on availability of clinical facilities, space, and faculty. Application review begins in September, preceding the year of admission and the deadline for receipt of materials is November 1st.

In addition to general university and graduate school requirements, the School of Physical Therapy requires the following for application for admission to the DPT program:

1. Completion of baccalaureate degree or junior standing in one approved major of the university's accelerated program
2. In process of completion of all prerequisite coursework
3. A minimum grade of B in most prerequisite courses; an overall GPA of 3.0 or higher is usually needed to be competitive.
4. Submitted scores on the verbal, quantitative, and writing sections of the Graduate

Record Exam (GRE)

5. Eligibility for acceptance into the Graduate School
6. Statement of interest in the physical therapy profession
7. Two (2) completed recommendation forms from physical therapists (licensed in the U.S.) at two different physical therapy departments where the student has observed or worked for a minimum of 20 hours per facility, plus one additional letter of recommendation
8. Personal resume.

Admission Process

Completed applications are reviewed by the Physical Therapy Admissions Committee, and those accepted into the program will be notified no later than the spring of the year for which admission is sought.

After applicants are officially notified of provisional acceptance by the graduate school they must:

- Show evidence of completing outstanding prerequisites with grades of A or B (prior to first enrollment).
- Show proof of immunization required by the state and proof of immunization for hepatitis B (prior to first enrollment.)
- Maintain continuous health insurance throughout entire program.
- Maintain current CPR Certificate throughout program.

Progression after Admittance

A student in physical therapy is expected to abide by the regulations as set forth in the general and graduate catalogs and the written policies of the School of Physical Therapy. Policies of the school add to or update the information in the catalog and are subject to annual review. In addition, course offerings and policies in this catalog are subject to periodic review and change.

- Students must earn a 3.0 GPA and keep good standing in the Graduate School.
- Successful completion of all courses in one semester is required before progression to the next semester.
- Grades lower than a C are not acceptable in physical therapy coursework.
- Prior to graduation a student must have demonstrated competency in all areas of physical therapy. Written and practical examinations are used in most courses to evaluate student competence. Practical exams must be passed with a grade of 80% in order to successfully complete the course.
- In order to progress to clinical internships the student must comply with policies of the School of Physical Therapy.
- Progression in clinical coursework is governed by policies related to grading and safety in the clinical setting and by contracts with clinical facilities.
- Clinical sites and the director of clinical education have the right to remove a student from a clinical site.
- If a grade of F is earned in a clinical course, the student is terminated from the program. In order to be reinstated in the program, the student must appeal to retake the course by following the appeal process of the School and the university.

Clinical Sites

Clinical education experiences are an exciting required part of the student's educational program. Completion of coursework does not guarantee that a student will be provided an affiliation at a specific time or at a particular facility as this depends on the educational needs of the student and the availability of clinical facilities. However, every attempt will be made to plan a student's affiliations in proper sequence.

Physical Therapy Undergraduate Courses

(Offered on Internet)

PT 4123. Human Anatomy for Physical Therapy. Introduction to the structure and function of the human body with emphasis on the back and the extremities. Includes the relationships of muscles, nerves, and blood vessels. Emphasizes the clinical relevance of anatomical structure to clinical practice. Three lecture hours a week. Credit: Three hours.

Graduate Courses Taken in the Accelerated Program

PT 5015, Gross Anatomy

PT 5072, Developmental Concepts: Adolescent to Geriatrics

PT 5221, Ex Test/Prescription PT

Graduate Courses

For additional graduate courses, please refer to the Graduate Catalog.

College of Nursing

Dean: Patricia Holden-Huchton, Professor

Associate Dean, Denton: Anne Scott Stiles, Professor

Associate Dean, Houston: Karen Lyon, Professor

Associate Dean, Dallas: Stephanie Woods, Associate Professor

Associate Dean, Research and Clinical Scholarship: Gayle Roux, Associate Professor

Location: ASB 216 (Denton)

Telephone: (940) 898-2401 (Denton); (214) 689-6510 (Dallas); (713) 794-2100 (Houston)

*Faculty: **Denton:** Associate Professors E. Restrepo, D. Sauls, D. Scott-Tilley; Associate Clinical Professor P. Jones; Assistant Professors M. Benham-Hutchins, F. Liu, V. Zeigler; Assistant Clinical Professors M. Brogan, A. Thomson; Clinical Instructor R. Campbell; **Dallas:** Professors S. Chaney, M. Cho, P. Mancuso, C. Mobley, S. Sheriff, D. Tapler, S. VanSell; Associate Professors C. Arnold, C. Bailey, G. Byrd, S. Carter, M. Tietz; Associate Clinical Professors J. Dalsheimer, C. Enright, E. Fuentes, L. Galatas, S. Lambert, B. McAlister, N. McMenamy, L. Oquin, D. Walls, J. Walsh, C. Wilson; Assistant Professors J. Anderson, B. Gray, J. Hernandez, L. Kubin, M. Peters; Assistant Clinical Professors N. Fried, V. Gregory, S. Hill-Haley, R. Jaekel, A. Johnson, K. Kaighan, S. Kessler, K. Kremer, L. Light, N. Schrum, B. Shelor, J. Wilson; Clinical Instructors R. Crackel, N. Fogg, K. Morris, D. Nolan, M. Yousef; **Houston:** Professors S. Cesario, R. Krepper, A. Malecha, J. McFarlane, A. Young; Clinical Professor P. Landrum, C. Stephenson; Associate Professors C. Ayers, B. Binder, J. Foster, M. Hawkins, S. Hutchinson, A. Koci, R. Langford, D. Montgomery, C. Richard, L. Symes; Associate Clinical Professors F. Aboul-Enein, F. Blair, J. Cunningham, J. Edwards, T. Ho, C. Hueske, A. Kyle, R. Solomon; Assistant Professors A. Birch-Evans, R. DelloStritto, B. Henderson, O. Johnson, R. Nurse, K. Pancheri, R. Toms, K. Vandenberg; Assistant Clinical Professors B. Baudler, A. Birch-Evans, A. Broxson, S. Crockett, C. Jennings, M. Laime, T. Maharaj, J. Mellenthin, T. Newsom, M. Rhemann, R. Schultz, A. St. Germain*

The College of Nursing Bachelor of Science degree with a major in nursing is approved by the Texas Board of Nursing and accredited by the Commission on Collegiate Nursing Education. Graduates of the pre-licensure program are eligible to apply to take the examination for licensure as registered nurses. The nursing

program prepares students to assume entry level positions in nursing practice and provides the academic foundation for advanced study in nursing.

The baccalaureate nursing major requires a minimum of 120 semester hours of credit. The curriculum may be completed in either fulltime or part-time study. Students may take all course work at TWU or may take the lower division non-nursing courses at another college or university and the upper division nursing courses at TWU. Freshman and sophomore courses are offered on the Denton campus. The junior and senior courses are available at Dallas and Houston.

Opportunity is provided for admission and program completion for individuals with a variety of educational backgrounds. There are specific program plans for the following groups: 1) basic students (those entering nursing without prior nursing education), 2) non-nurses with a bachelor's degree in another field, 3) transfer students from another baccalaureate nursing program, and 4) registered nurses who have a diploma or associate degree. The following sections describe the admission criteria and program requirements for each of these groups of individuals.

Health and Safety Requirements for All Students

All nursing students are required to have been immunized against measles, mumps, rubella, chicken pox, tetanus, diphtheria, hepatitis B, influenza and have annual TB skin testing prior to entering clinical courses. Proof of immunizations will be required at the time of admission to upper division nursing courses. Texas Woman's University does not require HIV testing of students; however, some clinical agencies with which the College of Nursing affiliates for student clinical experience may require such testing.

Clinical facilities and school systems with which the University affiliates require that students be tested for drugs and have criminal background checks. Students are required to have the screening done at their own expense. College of Nursing policy governs the procedures to be followed. Failure to meet the screening standards may result in the student being required to withdraw from the program. Clinical facilities may require that students have health insurance. When this is required, students must show proof of health insurance.

Admission and Program Requirements: Basic Students

Applicants must meet the TWU admission requirements stated earlier in this catalog. Individuals apply to the University and indicate nursing as a major on the application form. Once students are admitted to TWU, they are classified as nursing majors and are advised by Academic Advisors in the College of Nursing.

The program is four years in length. The first four semesters consist of non-nursing courses which meet the university's core curriculum requirements and courses which are the essential foundation for nursing courses. Upper division nursing courses are taught in the last four semesters and are offered only in Dallas and Houston. Admission Coordinators are available at each campus to assist students in evaluation of prior course work, selection of equivalent courses, and verification of eligibility to transfer.

Non-nursing prerequisite courses & requirements

The College of Nursing faculty has defined a set of courses that must be taken by all students either to meet a state requirement or to have the foundation necessary for upper division nursing courses. All students must complete the 42 credit hour state core. If a student has not taken Anatomy and Physiology I or II, or Microbiology before fall 2009, the student must take the sections designated for science majors. Beginning fall 2010, for qualified applicants to upper division nursing, credit will only be given for Anatomy and Physiology I and II and Microbiology taken within the past 5 years. Exception to the 5 year rule is granted by the College of Nursing for designated science majors. If a course is taken more than once, the most recent grade received will be counted in calculating the GPA.

These courses are required for

- Students seeking a first bachelor's degree
- Transfer students

All students seeking a bachelor's degree in Nursing must take the following courses to be eligible for admission to the Nursing program:

Prerequisite Courses	Hours
History 1013 History of the United States, 1492 – 1865 (or equivalent)	3
History 1023 History of the United States, 1865 to the Present (or equivalent)	3
Gov 2013 U.S. National Government (or equivalent)	3
Gov 2023 Texas Government (or equivalent)	3
Psy 1013 Introduction to General Psychology (or equivalent)	3
Psy 1603 Developmental Psychology (Lifespan) (or equivalent)	3
Math 1703 Statistics (or PSY 2303 or equivalent)	3
NFS 2323 Introduction to Nutrition (or equivalent)	3
Chemistry with lab	4
Bact 1001 and 1003 Microbiology and Lab (or equivalent)	4
Zool 2011 and 2013 Human Anatomy and Physiology with Lab (or equivalent)	4
Zool 2021 and 2023 Human Anatomy and Physiology with Lab (or equivalent)	4
Total	40

Transfer Students (Core Complete) Seeking a First Bachelor's Degree

Transfer students must meet the admission requirements of the University and the progression requirements of the College of Nursing. Program requirements for transfer students are the same as those stated for basic students. If a transfer student has not been enrolled in a nursing program for more than one year, placement test(s) and clinical skills assessment may be used to determine the level of entry into the nursing program.

Transfer students who have completed a Texas core curriculum from a Texas public institution of higher learning are not required to complete the TWU core curriculum. Exception: TWU College of Nursing required specifically a literature or philosophy course to fulfill the Humanities core requirement; additional specific core requirements also appear above. The non-nursing prerequisite courses listed above meet the nursing major prerequisite requirements and will be used to calculate admission GPA for the Texas core complete student.

Non-nurses with a bachelor's degree in another field:

Courses taken for the first degree will not have to be repeated if they are determined to be equivalent and taken within the last five years where appropriate. The following courses and requirements are necessary for the Bachelor of Science degree with a major in nursing for students who have completed a previous bachelor's degree.

Application for Upper Division Nursing:

First Degree Students and Non-Nursing Bachelor's Degree Students

Students may not enroll in upper division nursing courses unless they have been accepted to do so. Class space in nursing courses is limited and progression into nursing courses is competitive. Admission to upper division nursing courses is based on consideration of multiple criteria. These criteria include the following: GPA for prerequisite coursework; admission assessment test scores; grades received on first attempt for Anatomy and Physiology I and II, Microbiology, and Statistics. Preferential consideration will be given to students who have completed 32 or more semester credit hours of the required non-nursing lower division courses at TWU.

To be eligible to be considered for progression into upper division (3000-4000 level) nursing courses, students must have:

1. Been admitted to TWU using the Texas Common Online application. Students must submit all TWU admission materials to TWU postmarked at least 6 weeks prior to the admissions deadlines. The transcript of courses taken during the semester of application to TWU may be sent to Student Records immediately following that semester but prior to the CON deadline (September 1 or February 1);
2. Completed at least 46 hours of required lower division non-nursing courses to include these selected major prerequisite nursing courses (Anatomy and Physiology + Labs 8 hours, Chemistry + Lab 4 hours, Microbiology + Lab 4 hours, Growth and Development Across the Life Span 3 hours, Nutrition 3 hours, Statistics 3 hours) and be able to complete all 58 hours of the lower division course work specified in the degree plan before beginning nursing courses except for Multicultural Women's Studies (3 hours);
3. A minimum grade of C in anatomy and physiology, chemistry, and microbiology including all labs;*

*Note: If a student has not taken Anatomy and Physiology I and II, or Microbiology before fall, 2009, the student must take the sections designated for science majors. Beginning in fall 2010, for qualified applicants to upper division nursing, credit will only be given for Anatomy and Physiology I and II and Microbiology taken within the past 5 years.

4. A minimum grade point average of at least 3.0 on the required non-nursing lower division courses. All courses which are shown in the lower division degree plan are calculated in the grade point average. If a course is taken more than once, the most recent grade received will be counted in calculating the GPA. Other courses which an applicant may have taken are not calculated in the grade point average for admission;
5. Successfully passed an entrance test before application and admission to upper division nursing courses. Entrance testing results must be submitted to the TWU College of Nursing by application dates. An applicant is allowed to take the entrance test only once before each deadline date;
6.
 - a. Submitted to the College of Nursing a completed application for upper division nursing with the required nursing processing fee.
 - b. Submitted to TWU Student Records Processing in Denton, official transcripts from all colleges attended postmarked at least six weeks prior to the admissions deadlines for the Nursing program.

Requirements for Clinical Course Enrollment

At the time of enrollment in clinical nursing courses, the student must provide proof of:

1. Current cardiopulmonary resuscitation Health Care Provider certification from the American Heart Association.
2. Current required immunizations as specified by TWU Student Health Services.
3. Drug testing and criminal background screening by a company designated by the College of Nursing. If enrollment is continuous at TWU, the student does not have to repeat the drug testing and criminal background screening.
4. Health insurance as required
5. Professional liability insurance will be provided for each student through the TWU student professional liability group policy.

Transfer Students From Another Nursing Program

Students wishing to transfer into the College of Nursing from another nursing program must meet the following requirements.

1. Nursing courses were completed at a nationally accredited nursing program.
2. A grade of C or better was earned in all nursing courses (including pathophysiology) as well as anatomy and physiology, chemistry and microbiology including all labs.
3. Nursing courses were completed within the last five years.
4. Eligibility to continue in or return to the previous nursing program must be verified by a statement from the dean of the previous program.

5. Applicants must submit to the College of Nursing a course description and outline for each completed nursing course for evaluation. If the course(s) is/are determined to be equivalent to TWU nursing courses, credit may be granted.
6. At least 30 of the last 62 hours have to be completed at TWU.
7. A minimum of 45 hours have to be completed at TWU to graduate with honors.
8. Successful completion of a minimum of 25% of the total hours required for the degree must be taken at TWU.

Registered Nurses

The RN to BS program plan is designed to facilitate educational mobility for those registered nurses who wish to earn the Bachelor of Science degree with a major in nursing. The program plan is offered at Denton, Dallas and Houston. The curriculum offers courses that are 100% online on all campuses.

To be eligible for admission, registered nurses must be admitted to the University, hold a current unencumbered license as an RN in Texas, and have successfully completed the non-nursing prerequisite courses plus 2 credit hours of electives (total 60 credit hours). If the prerequisite courses were successfully completed for the prior degree, they do not have to be repeated. Registered nurses who are Texas core complete or who have previously earned a bachelor's degree in another field must complete only those prerequisite courses listed for non-nurses with a bachelor's degree. The multicultural women's studies course may be completed before or after admission to upper division nursing.

Computer Literacy and Oral Communications Core Competencies

RNs who are not core complete or do not have an earned bachelor's degree in another field from an accredited college or university must pass an approved computer science course or a competency examination in computer literacy and an approved speech course or documented successful completion of two evaluated oral presentations at TWU College of Nursing. If an approved speech course has not been completed, the evaluated oral presentations will be completed during the nursing curriculum in NURS 4614. RNs are encouraged to complete the computer competency prior to enrolling in the nursing program.

Applications.

The registered nurse must complete an Application for Admission to Upper Division Nursing Courses. The suggested deadlines are:

- February 1 for RNs who will be eligible to begin nursing courses in the Summer semester (Houston only).
- April 1 for RNs who will be eligible to begin nursing courses in the Fall semester
- August 1 for RNs who will be eligible to begin nursing courses in the Spring semester

Twenty-eight semester hours of credit will be awarded to those individuals who have a license to practice in Texas as a registered nurse and who have met the established criteria for admission to upper division nursing courses. Credit is awarded for NURS 3025 Women's Health and Family Role Competencies, NURS 3035 Adult Health Competencies I, NURS 3813 Pharmacology, NURS 4615 Mental Health Competencies, NURS 4045 Adult Health Competencies II, and NURS 4055 Child Health Competencies.

The upper division course requirements listed below are taken at TWU.

	Credit Hours
BIOL 4344 Pathophysiology	4
NURS 3643 RN Introduction to Baccalaureate Nursing	3
NURS 3612 Introduction to Nursing Research	2
NURS 3614 Nursing Assessment Across the LifeSpan	4
NURS 3804 RN with Families and Groups	4
NURS 4612 Promoting Wellness in the Aging Family	2
NURS 4614 Community Health Competencies	4
NURS 4803 The Nursing Leadership and Management Experience	3
NURS 4813 RN High Acuity Nursing	3
NURS 4823 Competencies in RN Transition to Baccalaureate Nursing	3
TOTAL:	32

Students in the RN/BS program may have the opportunity to earn credit through challenge exams for some of the required nursing courses. Information is available from www.twu.edu/nursing. At the time of enrollment in nursing courses, the registered nurse must provide proof of:

1. Current cardiopulmonary resuscitation certification (must include one person, two person, infant, child, adult choking, one-way valve mask breathing and AED for American Heart Association Health Care Provider).
2. Professional liability insurance purchased through a TWU student professional liability group policy. The cost is included in competency based course fees.
3. Current unencumbered licensure as a registered nurse in Texas.
4. Current required immunizations.

The College of Nursing offers a master's degree for associate degree or diploma nurses who wish to earn both the bachelor of science and master of science degrees in nursing. Prerequisite courses are the same for the RN-MS program and the RNBS program. For further admission requirements refer to the graduate catalog.

The Post Baccalaureate RN MS Program offers registered nurses holding an associate degree or diploma from a nationally accredited program and an earned bachelor's in another field an opportunity to obtain a Master of Science degree with a major in nursing.

Specialty tracks include:

- Advanced Practice
- Nurse Educator
- Nursing Administration

Students complete 10-15 semester hours of undergraduate coursework and 10-13 hours of graduate course work before progressing to unconditional admission to the graduate program. This program reduces the number of baccalaureate hours by 12 (4-5 courses dependent on the Master's track selected). Students do not receive a Bachelor of Science degree. This program allows the student to begin the Master's Program after 2 semesters with 10-13 graduate hours completed. Depending on the master's specialty chosen, the master's degree can be completed in an additional 3-6 semesters of full-time study. Students may elect to complete the program on a part-time basis. Details are available on the TWU Nursing website or the Graduate Catalog.

Honors Scholar Program

The College of Nursing provides the opportunity for students to participate in the Texas Woman's University Honors Scholar Program. The program seeks to develop scholars with excellent technological, writing and research skills as well as clinical expertise. These skills will be developed through both enhanced course work and experiential learning in the college as well as related health care agencies. To participate, students must meet the Texas Woman's University Honors Scholar Criteria. All applicants who are currently participating in the Honors Scholar Program at TWU and meet the minimum requirements for admission to upper division nursing courses are automatically granted admission to upper division nursing courses.

Readmission into Nursing Program: All Students

If a baccalaureate student who was in good academic standing has been absent from the program for more than one year, the procedure for re-entry into the nursing program will consist of:

- a. reapplication to the program
- b. re-entry to the program based on availability of space
- c. placement test(s)
- d. clinical skills assessment

The placement test(s) and clinical skills assessment will determine the level of re-entry. Enrollment will be based on the availability of clinical faculty and clinical space.

An individual who has been unsuccessful in meeting the progression requirements, after being admitted to the baccalaureate program in the College of Nursing, is eligible to apply to the College of Nursing and be considered for admission as a new student in the baccalaureate program after a period of five years.

Academic Policies: All Students

The following policies apply to all students in the nursing program.

1. A minimum grade of C is required in pathophysiology.
2. A minimum grade of C is required in all courses in the nursing major. If a student earns a grade of D, F, or WF in a nursing course (including pathophysiology), then that course must be repeated. A course in which a grade of less than C (D, F, or WF) was earned may be repeated only once.
3. A student who has earned a grade of less than C (D, F, or WF) in two nursing courses (including pathophysiology) or who has earned a grade of less than C (D, F, or WF) twice in the same nursing course (including pathophysiology) will be required to leave the nursing program.
4. Students receiving a grade of I, D, F, or WF in a nursing course (including pathophysiology) may not progress to courses for which that course is a prerequisite.
5. All nursing courses must be completed within a period of five consecutive calendar years from the date of first enrollment in a nursing course. Any current or returning student unable to complete the program within this allotted time frame must apply and compete for admission as a beginning nursing student.
6. To be eligible to graduate, students who are not already licensed in Texas as a registered nurse are required to achieve a passing score on a nursing comprehensive exam. If a student does not pass by the second attempt, the student must enroll the following semester in a 3 credit hour nursing independent study course, designed for the student's area of deficiency, and take another nursing comprehensive exam. If, after one attempt during the independent study course, the student does not achieve a passing score on the nursing comprehensive exam, the student will receive an F in the course and will not be allowed to continue in or graduate from the program.

Expenses of the Nursing Program

In addition to general University tuition and fees, the student majoring in nursing assumes financial responsibility for the following: uniforms, other clinical accessories, immunizations, drug and criminal background screening, personal computers, and Texas Board of Nursing application fees. The student must also provide his or her own transportation. Information regarding required tuition and fees and length of program is printed in this catalog.

Dismissal

The College of Nursing reserves the right to require the withdrawal from the College of Nursing of any student whose behavior is deemed to threaten the welfare of any individual, whose behavior is deemed unsafe in any manner, or violates the TWU Student Conduct Policies published in the Student Handbook.

Bachelor of Science - Nursing Major

A Suggested Sequence of Courses (120 hours) for Non R.N. Students

This course sequence reflects the preferred program plan for basic students who take all of their course work at TWU. Other sequences may be planned for other types of students.

FIRST YEAR

First Semester	Second Semester
ENG 1013 Composition I 3	ENG 1023 Composition II..... 3
PSY 1013 Intro to General Psych. 3	PSY 1603 Developmental Psychology..... 3
HIST 1013 History of U.S. (1492-1865) .. 3	*BACT 1013/1011 Microbiology with lab 4
MATH 1013 Quantitative Literacy 3	*ZOOL 2013/2011 Human Anatomy4
Chemistry (Lecture and Lab) 4	and Physiology I with Lab
Total Hours 16	Total Hours 14

SECOND YEAR

First Semester	Second Semester
GOV 2013 U. S. National Gov. 3	GOV 2023 Texas Government 3
*ZOOL 2023/2021 Human Anatomy 4	HIST 1023 History of U.S. (1865-present).... 3
and Physiology II with lab	Multicultural Women's Studies (core)..... 3
MATH 1703 Elementary Statistics I..... 3	Visual/Performing Arts (core) 3
NFS 2323 Nutrition..... 3	CSCI 1403 or CSCI 2433 or..... 0
Philosophy or Literature 3	Competency Exam in Computer Literacy
Total Hours 16	Total Hours 12

THIRD YEAR

First Semester	Second Semester
NURS 3005 Concepts and Clinical..... 5	NURS 3025 Women's Health and 5
Competencies**	Family Role Competencies
NURS 3614 Nursing Assessment 4	NURS 3035 Adult Health Competencies I5
Across the Life Span	NURS 3612 Introduction to Research 2
NURS 3813 Pharmacology 3	NURS 4602 Nursing Experience with 2
BIOL 4344 Pathophysiology 4	Groups
	NURS 4612 Promoting Wellness 2
	in the Aging Family
Total Hours 16	Total Hours 16

FOURTH YEAR

First Semester	Second Semester
NURS 4045 Adult Health 5	NURS 4026 Critical Competency 6
Competencies II	Integration
NURS 4055 Child Health Competencies. . 5	NURS 4614 Community Health 4
NURS 4615 Mental Health..... 5	Competencies**
Competencies	NURS 4803 Nursing Leadership and 3
Nursing elective 2	Management Experience
	Comprehensive Exam..... 0
Total Hours 17	Total Hours 13

**courses where speech competencies will be demonstrated

Degree requirements in the College of Nursing are recognized as including sufficient coursework to meet the global perspectives graduation requirement.

*If not previously taken, qualified applicants must take the section for science majors. Beginning fall 2010, for qualified applicants to upper division nursing, credit will only be given for Anatomy and Physiology I and II and Microbiology taken within the past 5 years.

Licensure as a Registered Nurse

Upon admission to upper division courses of the College of Nursing, each student is required to review specific rules and regulations of the Texas Board of Nursing. Every student is responsible for reading information regarding application for licensure in the state of Texas. The Texas Board of Nursing determines criteria for eligibility for licensure. Students should access the Board of Nursing website at www.bon.state.tx.us to examine the Nurse Practice Act and its regulations. Detailed information about critical issues in a student's background may affect eligibility, and the student should contact the board for information regarding possible submission of a Declaratory Order (Sec. 301-257). Board approval of candidates who apply for the NCLEX-RN examination to be licensed in the state of Texas is necessary.

Nursing Undergraduate Courses

****NURS 3005. Concepts and Clinical Competencies.** Focuses on beginning concepts and clinical competencies while learning and applying knowledge about nursing as a practice profession. Explores aspects of health promotion and health maintenance including information about health care delivery systems. Introduces ethical, legal, economic, and political influences as they impact health care and health care providers globally. Prerequisites: Admission to upper division nursing. Corequisites: NURS 3614, NURS 3813, BIOL 4344. Three lecture hours and six laboratory hours a week. Credit: 5 hours.

NURS 3025. Women's Health and Family Role Competencies. Focuses on nursing's role with women, childbearing women and developing families across the lifespan. Emphasizes aspects of health promotion, restoration and maintenance, including impact of life experiences. Explores unique role and contributions of nursing in relation to collaborative management of individuals and families during childbearing. The clinical setting concentrates on development of nursing skills and critical thinking appropriate for use with the developing family. Prerequisites: NURS 3614, NURS 3005, NURS 3813, BIOL 4344. Corequisites: none. Three lecture hours and six laboratory hours a week. Credit: 5 hours.

NURS 3035. Adult Health Competencies I. Focuses on unique role and contributions of nursing to collaborative management of adults with acute and chronic health problems. Emphasizes health promotion and health maintenance including restoration and rehabilitation activities for adults within the family system. The clinical experiences focus on evidence-based nursing care concepts and clinical competencies in the care and management of adult health problems. Prerequisites: NURS 3614, NURS 3005, NURS 3813, BIOL 4344. Corequisites: none. Three lecture hours and six laboratory hours a week. Credit: 5 hours.

***NURS 3143. Multicultural Women's Health Issues.** Same as WS 3143. Focuses on roles and health needs of women within the context of their culture. Empowerment of women to overcome barriers to health access and delivery will be emphasized. Cultures will be organized by ethnicity, sexual orientation, and age groups as well as alternative health practices. Three lecture hours a week. Credit: Three hours.

*Satisfies core requirement for multicultural women's studies.

**Satisfies core requirement for oral communication for nursing majors.

***NURS 3163. The Evolving Woman.** Same as BIOL 3163 and WS 3163. Emphasizes the physiological, psychological, socio-cultural, and developmental evolution of the female from conception to death. Focuses on issues of each age group from a feminist perspective. Prerequisites: ZOOL 2011, ZOOL 2013, ZOOL 2021, ZOOL 2023. Three lecture hours a week. Credit: Three hours.

NURS 3612. Introduction to Nursing Research. Focuses on research process at an introductory level. Emphasizes nursing research and its relevance to nursing practice. Prerequisites: Statistics. Corequisite: NURS 3005. Two lecture hours a week. Credit: Two hours.

NURS 3614. Nursing Assessment Across the Life Span. Focuses on physical and psychosocial techniques of health assessment. Emphasizes influences of spirituality, culture, and human sexuality on individuals of all ages. Clinical experiences provide opportunities to apply interview and assessment skills in community-based settings. Corequisite: BIOL 4344. Two and one half lecture hours and four and one half laboratory hours a week. Credit: Four hours.

NURS 3643. RN Introduction to Baccalaureate Nursing. Focuses on the transition to baccalaureate nursing for the registered nurse. Emphasizes aspects of socialization, communication, and professional accountability. Introduces the concepts of health promotion, health maintenance, and health protection. Designed to be the entry level course for and limited to registered nurses. Taken in place of NURS 3005. Prerequisites: Admission to upper division nursing and current licensure to practice in the state of Texas as a registered nurse. Three lecture hours a week. Credit: Three hours.

NURS 3762. The Nursing Implications of Altered Human Sexuality. Human sexuality and culturally sensitive nursing implications of select diseases, surgeries or medications which alter sexual response. Prerequisite: BIOL 4344. Two lecture hours a week. Credit: Two hours.

NURS 3804. RN with Families and Groups. Focuses on nursing's role with families and groups. Emphasizes aspects of health promotion and health maintenance with families and groups. Examines the developing family and group, family and group dynamics, impact of illness (disease) states, situational crises, the advocacy process, and the impact of politics on the systems. Limited to registered nurses. Taken in place of NURS 4602. Prerequisites: NURS 3643. Prior to or concurrent with NURS 4614. Four lecture hours a week. Credit: Four hours.

NURS 3813. Pharmacology. Focuses on pharmacologic aspects of nursing practice. Builds a knowledge base of classifications of drugs and emphasizes the nurse's role and responsibility in drug administration. Prerequisites: Admission to upper division nursing. Corequisite: BIOL 4344. Prior to NURS 3025 and NURS 3035. Three lecture hours a week. Credit: Three hours.

NURS 4026. Critical Competency Integration. Focuses on the integration of clinical concepts and competencies to collaboratively manage care of individuals and groups of patients. Applies nursing leadership and management concepts within the organizational structure of health care settings. Prerequisites: NURS 4045, NURS 4055, NURS 4615; Corequisites: NURS 4803, NURS 4614. Two lecture hours and twelve laboratory hours a week. Credit: 6 hours.

*Satisfies core requirement for multicultural women's studies.

NURS 4045. Adult Health Competencies II. Focuses on the unique role and contributions of nursing to collaborative management of adults with complex acute and chronic health problems. Applies the nursing process in providing care in high acuity settings. Utilizes evidence-based nursing care concepts and clinical competencies in the care and management of adults with complex health problems. Prerequisites: NURS 3612, NURS 3025, NURS 3035. Corequisites: none. Three lecture hours and six laboratory hours a week. Credit: 5 hours.

NURS 4055. Child Health Competencies. Focuses on the development of nursing knowledge and clinical competencies necessary to provide health care to children/adolescents within the context of a family in a collaborative health care environment. Emphasizes developmentally appropriate nursing care to patients from culturally diverse backgrounds. Prerequisites: NURS 3612, NURS 3025, NURS 3035; Corequisites: none. Three lecture hours and six laboratory hours a week. Credit: 5 hours.

NURS 4502. Clinical Ethics in Professional Nursing. An investigation of bio-ethic principles that focus on critical thinking made applicable to problem-solving of ethical dilemmas in nursing; explore theories, models, and approaches in the analysis of clinical cases according to ethical standards that facilitate effective health care delivery. Two lecture hours a week. Two credit hours.

NURS 4512. Palliative Care Nursing. Role of nursing in the palliative management of clients who are terminally ill and/or have irreversible illnesses. Application of best practice evidence related to palliative care skills such as assessment and management of symptoms and pain, psychosocial and spiritual issues, communication, and ethical and legal issues. Two lecture hours a week. Credit: Two hours.

NURS 4602. The Nursing Experience with Groups. Focuses on nursing's role with groups. Emphasizes aspects of health promotion and health maintenance including collaborative planning and advocacy process. Examines group dynamics, situational crises, and impact of politics. Prerequisite: NURS 3005. Two lecture hours a week. Credit: Two hours.

NURS 4612. Promoting Wellness in the Aging Family. Focuses on preserving health in families with aging individuals. Builds knowledge base for nurses' participation in managing health care problems and developing strategies for promoting wellness in aging individuals. Examines role changes in the family constellation as a result of the aging process. Prerequisite: NURS 3005, NURS 3614, NURS 3813, BIOL 4344. Two lecture hours a week. Credit: Two hours.

****NURS 4614. Community Health Competencies.** Focuses on nursing's advocacy role in health promotion, health protection, and health maintenance and the collaborative role in management of health care needs of diverse groups. Experiences emphasize clinical reasoning in a variety of community settings. Prerequisites: NURS 3614, NURS 4045, NURS 4055, and NURS 4615. Co-requisites: none. Two lecture hours and six laboratory hours a week. Credit: Four hours.

NURS 4615. Mental Health Competencies. Focuses on the unique contributions of nursing to collaborative management of health problems which effect

****Satisfies core curriculum for oral communication competency.**

behavior. Clinical experiences with individuals, families, and groups in a variety of settings emphasize development of clinical judgments and clinical competencies that promote mental wellness. Prerequisites: NURS 3612, NURS 3025, NURS 3035. Corequisites: none.

NURS 4803. The Nursing Leadership and Management Experience. Focuses on leadership and management theories, trends, and issues in health care. Emphasizes professional nursing's role in health care and health care delivery systems. Compares strategies for entry into professional nursing practice. Prerequisites: NURS 4045, NURS 4055, NURS 4615. Corequisites: none. Three lecture hours a week. Credit: Three hours.

NURS 4813. RN High Acuity Nursing. Focuses on collaborative management, critical thinking, and interventions utilized in high acuity nursing of individuals of all ages. Differentiates the nurse's role in a variety of settings including homes, transitional, and acute care. Limited to registered nurses. Prerequisites: NURS 3612 and NURS 3643. Three lecture hours a week. Credit: Three hours.

NURS 4823. Competencies in RN Transition to Baccalaureate Nursing. Focuses on critical thinking and nursing practice skills in managing health care problems. Students practice leadership and management skills within the organizational structure of health care settings. Limited to registered nurses. Taken in place of NURS 4806. Prerequisites: NURS 3612, NURS 3643 and NURS 3614. Corequisite: NURS 4803. Nine laboratory hours a week. Credit: Three hours.

NURS 4902. Special Topics in Nursing. Study of selected issues in nursing. May be repeated for credit when topics vary. Prerequisites: Senior standing in nursing or permission of instructor. Credit: Two hours

NURS 4903. Special Topics in Nursing. Study of selected problems in nursing. May be repeated for credit when topics vary. Prerequisite: Senior standing in nursing or permission of instructor. Credit: Three hours.

NURS 4911. Independent Study. Study of selected nursing problems. May be repeated for credit when problems vary. Credit: One hour.

NURS 4913. Independent Study. Study of selected nursing problems. May be repeated for credit when problems vary. Credit: Three hours.

Graduate Program

The College of Nursing offers work leading to the Master of Science degree and the Doctor of Philosophy degree in nursing. For further information see the Graduate Catalog. See chart of TWU NURS courses to the Field of Study Blocked Curriculum Grid that demonstrates transferability of courses through the Workforce Education Course Manual (WECM).

Graduate Courses

Please refer to the Graduate Catalog or the department website for information about our graduate courses.

TWU course equivalencies for the Field of Study Blocked Curriculum				
Both the didactic and clinical course(s) below must be completed with a C or better in order to earn the corresponding TWU NURS course credit.				
Content area	Didactic Course(s)	Clinical Co-Requisite	TWU NURS Corresponding Course #	
Fundamentals (Including Basic Skills)	RNSG 1413/RNSG 1513 * OR	2 to 6 semester credit hours (SCH) (RNSG XX60*, RNSG XX61*, RNSG XX62*, RNSG XX63*)	3005	
	RNSG 1413/1513* PLUS RNSG 1105/1205* OR	2 to 6 SCH (RNSG XX60*, RNSG XX61*, RNSG XX62*, RNSG XX63*)	3005	
	RNSG 1209/1309* PLUS RNSG 1105/1205* OR	2 to 6 SCH (RNSG XX60*, RNSG XX61*, RNSG XX62*, RNSG XX63*)	3005	
	Any equivalent theory/lab combination	(RNSG XX60*, RNSG XX61*, RNSG XX62*, RNSG XX63*)	3005	
Mental Health	RNSG 2213/2313*	1 OR 2 SCH (RNSG XX60*, RNSG XX61*, RNSG XX62*, RNSG XX63*)	4615	
Obstetrics/ Pediatrics	RNSG 1412/1512 OR	4 OR 5 SCH (RNSG XX60*, RNSG XX61*, RNSG XX62*, RNSG XX63*)	3025 & 4055	
	RNSG 1251 PLUS RNSG 2201 OR	4 OR 5 SCH (RNSG XX60*, RNSG XX61*, RNSG XX62*, RNSG XX63*)	3025 & 4055	
	RNSG 2208/2308* PLUS RNSG 2201*	4 OR 5 SCH (RNSG XX60*, RNSG XX61*, RNSG XX62*, RNSG XX63*)	3025 & 4055	
Medical/ Surgical Nursing	RNSG 1331/143*1 OR 1231* PLUS 1232* PLUS RNSG 1347/1447* or 1247* PLUS 1248* OR	2 to 6 SCH (RNSG XX60*, RNSG XX61*, RNSG XX62*, RNSG XX63*)	3035 & 4045	

Texas Common Course Numbering System

The common course number has a standardized four-letter prefix followed by a four-digit number. The four-letter prefix identifies the subject area. For example, ENGL is the common prefix for English courses, while COSC is the common prefix for computer science courses. The four-digit number following the prefix identifies specific courses within the subject area.

Each digit in the four-digit sequence gives additional information about the course. The first digit identifies the course as either freshman level (1) or sophomore level (2). The second digit identifies the number of credit hours students earn upon completing the course. Most often this digit will be a 1, 2, 3, or 4. The final two digits serve to establish the sequence in which courses are generally taken. Thus, French I— FREN 1311 is taken before French II— FREN 1312.

A crosswalk between the TWU course number and respective title, and the Texas Common Course Number and title, is provided below.

TCCNS Course Prefix & Number	TCCNS Course Title	TWU Course Prefix & Number	TWU (Short) Course Title
ACCT 2301	Principles of Accounting I	BUS 2043	Fundamentals of Accounting I
ACCT 2302	Principles of Accounting II	BUS 2053	Fundamentals of Accounting II
ARTS 1301	Art Appreciation	ART 2713	Understanding the Arts-Visual Arts
ARTS 1303	Art History I	ART 2503	History of Art-Ancient & Primitive
ARTS 1304	Art History II	ART 2513	History of Art-Medieval
ARTS 1311	Design I	ART 1203	Two-Dimensional Color & Design
ARTS 1312	Design II	ART 1213	Three-Dimensional Design
ARTS 1316	Drawing I	ART 1303	Basic Drawing
ARTS 1317	Drawing II	ART 1313	Drawing II
ARTS 2316	Painting I	ART 1503	Intro to Painting
ARTS 2323	Life Drawing I	ART 2303	Figure Drawing
ARTS 2336	Sculpture I	ART 2753	Sculpture I
ARTS 2346	Ceramics I	ART 3823	Ceramics – Hand Building
ARTS 2347	Ceramics II	ART 3833	Ceramics- Throwing
ARTS 2356	Photography I	ART 1603	Intro to Photography
ARTS 2357	Photography II	ART 2653	Blk & White Photography
ARTS 2366	Watercolor I	ART 3713	Painting-Watercolors
BCIS 1301	Microcomputer Applications	CSCI 2433	Computer Organization and Machine Language
BCIS 1316	Computer Programming- Basic	CSCI 1413	Programming for Windows
BCIS 1416	Computer Programming- Basic	CSCI 1413/1411	Programming for Windows w/Lab

400 Texas Common Course Numbering System Crosswalk

TCCNS Course Prefix & Number	TCCNS Course Title	TWU Course Prefix & Number	TWU (Short) Course Title
BIOL 2206	Envir. Biology	BIOL 1022	Envir. Biology
BIOL 1106	Biology (Majors-Lab I)	BIOL 1111	Principles of Biology Lab
BIOL 1107	Biology (Majors-Lab II)	BIOL 1121	Principles of Biology Lab II
BIOL 1111	Gen. Botany (lab)	BOT 2111	Plant Biology Lab
BIOL 1306	Gen. Biol. I (Majors)	BIOL 1113	Principles of Biology I
BIOL 1307	Gen. Biol. II (Majors)	BIOL 1123	Principles of Biology II
BIOL 1311	Gen. Botany	BOT 2113	Plant Biology
BIOL 1322	Nutrition & Diet Therapy I	NFS 2323	Introduction to Nutrition
BIOL 2101	Anatomy & Phys I (Lab)	ZOOL 2011	Human Anatomy & Physiology Lab
BIOL 2102	Anatomy & Phys II (Lab)	ZOOL 2021	Human Anatomy & Physiology Lab
BIOL 2106	Environmental Biol. (Lab)	BIOL 1021	Environmental Laboratory
BIOL 2120	Microbiology (Lab) (non-majors)	BACT 1001	Microbiology Laboratory
BIOL 2301	Anatomy & Phys. I	ZOOL 2013	Human Anatomy & Physiology
BIOL 2302	Anatomy & Phys II	ZOOL 2023	Human Anatomy & Physiology
BIOL 2320	Microbiology (non-majors)	BACT 1003	Microbiology
BUSI 2302	Legal Environment of Business	BUS 3153	Legal Environment of Business
CHEM 1105	Introductory Chemistry I Lab	CHEM 1011	Introductory Chemistry Lab
CHEM 1107	Introductory Chemistry II Lab	CHEM 1021	Introduction to Organic and Physiological Chemistry Lab
CHEM 1111	General Chemistry I (Lab)	CHEM 1111	Chemical Principles Lab I
CHEM 1112	General Chemistry II (Lab)	CHEM 1121	Chemical Principles Lab II
CHEM 1305	Introductory Chemistry I	CHEM 1013	Introduction to Chemistry
CHEM 1307	Introductory Chemistry II	CHEM 1023	Introduction to Organic and Physiological Chemistry
CHEM 1311	General Chemistry I	CHEM 1113	Chemical Principles I
CHEM 1312	General Chemistry II	CHEM 1123	Chemical Principles II
CHEM 2123	Organic Chemistry I Lab	CHEM 2211	Organic Chemistry I Lab
CHEM 2125	Organic Chemistry II Lab	CHEM 3221	Organic Chemistry II Lab
CHEM 2323	Organic Chemistry I	CHEM 2213	Organic Chemistry I
CHEM 2325	Organic Chemistry II	CHEM 3223	Organic Chemistry II
COMM 1318	Photography I	ART 1603	Intro Photography
COMM 1319	Photography II	ART 2653	Basic Photography
COSC 1300	Intro to Computing	CSCI 1403	First Course in Computing
COSC 1301	Microcomputer Application	CSCI 2433	Microcomputer Applications
COSC 1319	Comp Prog (Assembly)	CSCI 2443	Computer organization and machine Language
COSC 1336	Programming Fundamentals I	CSCI 1423	Programming Fundamentals I
COSC 1337	Programming Fundamentals II	CSCI 2493	Programming Fundamentals II
COSC 1436	Programming Fundamentals I	CSCI 1423	Programming Fundamentals I and Programming Fundamentals I Lab
COSC 2315	Data Structures	CSCI 1421	Programming Fundamentals I Lab
COSC 2325	Computer Organization and Machine Language	CSCI 3053	Data Structures
CRIJ 1301	Intro to Criminal Justice	CSCI 2443	Computer Organization and Machine Language
CRIJ 1307	Crime in America	GOV 2213	Intro to Criminal Justice
CRIJ 2314	Criminal Investigation	SOCI 2133	Crime in America
DANC 1147	Jazz Dance I	GOV 2223	Criminal investigation
		DNCE 1061 **	Introduction to Jazz Dance

**Repeatable Courses

TCCNS Course**Prefix &****Number****TCCNS Course Title**

DANC 1103	Dance Composition III
DANC 1110	Tap I
DANC 1111	Tap II
DANC 1112	Dance Prac. I
DANC 1113	Dance Prac. II
DANC 1128	Ballroom I
DANC 1133	Country & Western I
DANC 1134	Country & Western II
DANC 1141	Ballet I
DANC 1142	Ballet II
DANC 1145	Modern Dance I
DANC 1146	Modern Dance II
DANC 1152	Dance Performance II
DANC 1306	World Dance II
DANC 2110	Tap III
DANC 2111	Tap IV
DANC 2112	Dance Prac III
DANC 2113	Dance Prac IV
DANC 2141	Ballet III
DANC 2142	Ballet IV
DANC 2145	Modern Dance III
DANC 2146	Modern Dance IV
DANC 2147	Jazz Dance III
DANC 2148	Jazz Dance IV
DANC 2151	Dance performance III
DANC 2152	Dance performance IV
DANC 2304	Dance Appreciation II
DRAM 1220	Theatre Practicum I
DRAM 1221	Theatre Practicum II
DRAM 1310	Introduction to Theatre
DRAM 1341	Makeup
DRAM 2220	Theatre Practicum III
DRAM 2336	Voice for the Theatre
DRAM 2361	History Theatre I
DRAM 2362	History Theatre II
ECON 2301	Principles of Macroeconomics
ECON 2302	Principles of Microeconomics
EDUC 1301	Introduction to Teaching Prof.
EDUC 2301	Intro to Special Education
ENGL 1301	Composition I
ENGL 1302	Composition II
ENGL 2314	Tech. & Business Writing I
ENGL 2322	British Literature I
ENGL 2326	American Literature
ENGL 2332	World Literature I
ENGL 2333	World Literature II
FREN 1311	Beginning French I
FREN 1312	Beginning French II
GEOG 1300	Principles of Geography
GEOG 1303	World Regional Geography
GEOL 1302	Earth Sciences II
GEOL 1301	Earth sciences I

TWU Course**Prefix &****Number****TWU (Short) Course Title**

DNCE 2201	Dance Composition III
DNCE 1071 **	Tap I
DNCE 1071 **	Tap II
DNCE 3101 **	Dance Performance
DNCE 1191 **	Dance Performance
DNCE 1021 **	Ballroom Popular Club Dance
DNCE 1021 **	Ballroom Popular Club Dance
DNCE 1021 **	Ballroom Popular Club Dance
DNCE 1011 **	Introduction to Ballet
DNCE 1011 **	Introduction to Ballet
DNCE 1051 **	Introduction to Modern Dance
DNCE 1051 **	Introduction to Modern Dance
DNCE 3101 **	Dance Performance
DNCE 3143	World Dance II
DNCE 3171 **	Tap III
DNCE 3171 **	Tap IV
DNCE 3101 **	Dance Practicum III
DNCE 3101 **	Dance Practicum IV
DNCE 2111 **	Ballet III
DNCE 2121 **	Ballet IV
DNCE 1151 **	Modern Dance III
DNCE 1161 **	Modern Dance IV
DNCE 3191 **	Jazz Dance III
DNCE 3191 **	Jazz Dance IV
DNCE 3101 **	Dance Performance III
DNCE 3101 **	Dance Performance III
DNCE 2393	Understanding the Arts: Dance
DRAM 1312	Rehearsal and Production I
DRAM 1312	Rehearsal & Production I
DRAM 2493	Understanding the Arts – Drama
DRAM 2433	Theatrical Makeup
DRAM 4412	Rehearsal & Production II
DRAM 3493	Theatre Speech
DRAM 3473	Theatre Before 1715
DRAM 3483	Theatre Since 1715
ECO 1023	Principles of Macroeconomics
ECO 1013	Principles of Microeconomics
EDUC 2003	Schools and Society
EDUC 4203	Learners with exceptionalities
ENG 1013	Composition I
ENG 1023	Composition II
ENG 3433	Professional Writing
ENG 2013	English Literary Masterpieces
ENG 2033	American Literary Masterpieces
ENG 2043	World Literary Masterpieces
ENG 2053	World Lit. Masterpieces, 1600 to Present
FR 1013	Elementary French
FR 1023	Elementary French
SOCI 3283	Principles of Geography
SOCI 3273	World Regional Geography
SCI 2123	Earth Science II
SCI 2113	Earth Science I

**Repeatable Courses

402 Texas Common Course Numbering System Crosswalk

TCCNS Course Prefix & Number	TCCNS Course Title	TWU Course Prefix & Number	TWU (Short) Course Title
GOVT 2304	Intro. to Political Science	GOV 4833	Introduction to Political Science
GOVT 2305	Federal Government	GOV 2013	U.S. National Government
GOVT 2306	Texas Government	GOV 2023	Texas Government
HECO 1315	Food Preparation & Meal Management	NFS 1301/1302	Food preparation Prin. and Lab.
HECO 1322	Nutrition/Diet Therapy	NFS 2323	Introduction to Nutrition
HECO 1328	Clothing Selection, Design and Construction I	FT 1013	Principal & Techniques of Design Construction
HIST 1301	United States History I	HIST 1013	History of the United States 1492-1865
HIST 1302	United States History II	HIST 1023	History of the United States 1865 to present
HIST 2301	Texas History	HIST 3713	The History of Texas
HIST 2313	History of England I	HIST 3433	History of England to 1714
HIST 2314	History of England II	HIST 3443	History of England since 1714
HIST 2321	World Civilization I	HIST 2013	Survey of World Civilization to 1715
HIST 2322	World Civilization II	HIST 2023	Survey of World Civ. since 1715
MATH 1314	College Algebra	MATH 1303	Elementary Analysis I
MATH 1316	Plane Trigonometry	MATH 1313	Elementary Analysis II
MATH 1324	Math for Business & Social Sci.	MATH 2203	Business Analysis I
MATH 1375	Business Calculus	MATH 2213	Business Analysis II
MATH 1332	Contemporary Math I	MATH 1013	Financial & Quantitative Literacy
MATH 1333	Contemporary Math II	MATH 1023	Introduction to Mathematics
MATH 1342	Elementary Statistical Methods	MATH 1703	Elementary Statistics I
MATH 1350	Fundamentals of Math I	MATH 1543	Fund. of Elem. Mathematics I
MATH 1351	Fundamentals of Math II	MATH 1553	Fund. of Elementary Math II
MATH 2305	Discrete Mathematics	MATH 3013	Discrete Mathematics
MATH 2318	Linear Algebra	MATH 3063	Linear Algebra
MATH 2320	Differential Equations	MATH 3123	Differential Equations
MATH 2413	Calculus I	MATH 2014	Calculus I
MATH 2414	Calculus II	MATH 2024	Calculus II
MATH 2415	Calculus III	MATH 3104	Intermediate Calculus
MUSI 1116	Elementary Sight Singing & Ear Training I	MU 1521	Aural Skills I
MUSI 1117	Elementary Sight Singing & Ear Training II	MU 1531	Aural Skills II
MUSI 1181	Piano Class I	MU 1021	Keyboard Musicianship I
MUSI 1182	Piano Class II	MU 1031	Keyboard Musicianship II
MUSI 1306	Music Appreciation	MU 2713	Understanding the Arts - Music
MUSI 1310	American Music	MU 2543	History of Rock 'n' Roll
MUSI 1311	Music Theory I	MU 1523	Music Theory I
MUSI 1312	Music Theory II	MU 1533	Music Theory II
MUSI 2116	Advanced Sight Singing & Ear Training I	MU 2521	Aural Skills III
MUSI 2117	Advanced Sight Singing & Ear Training II	MU 2531	Aural Skills IV
MUSI 2181	Piano Class III	MU 2061	Keyboard Musicianship III
MUSI 2182	Piano Class IV	MU 2081	Keyboard Musicianship IV
MUSI 2311	Music Theory III	MU 2523	Music Theory III
MUSI 2312	Music Theory IV	MU 2533	Music Theory IV
PHED 1301	Intro. to Physical Fitness and Sport	KINS 1573	Kinesiology: An Evolving Dis.
PHED 1304	Personal/Comm. Health I	HS 1902/1901	Fitness & Health
PHED 1305	Personal/Comm. Health II	HS 1373	Community Health Education

TCCNS Course Prefix & Number		TCCNS Course Title		TWU Course Prefix & Number		TWU (Short) Course Title	
PHED 1338		Concepts of Phy. Fitness		KINS 1902 & 1901		Fitness and health: Enhancing Personal wellness & Fitness and health laboratory	
PHED 1346		Drug Use and Abuse		HS 2383		Drugs and Human Health	
PHIL 1301		Introduction to Philosophy		PHIL 1023		Introduction to Philosophy	
PHIL 1304		Intro. to World Religions		PHIL 2053		Philosophy to Comp. Religions	
PHIL 2303		Introduction to Logic		PHIL 2033		Logic and Critical Thinking	
PHIL 2306		Introduction to Ethics		PHIL 3053		Ethics	
PHIL 2317		Modern Philosophy		PHIL 2043		Contemporary Philosophy	
PHYS 2125		Univ. Phy. I (lab)		PHYS 2151		General Physics Lab I	
PHYS 2325		Univ. Phy. I		PHYS 2153		General Physics I	
PHYS 1101		College Phy. I (lab)		PHYS 1131		Principles of Physics Lab I	
PHYS 1102		College Phy. II (lab)		PHYS 1141		Principles of Physics Lab II	
PHYS 1301		College Phy. I		PHYS 1133		Principles of Physics I	
PHYS 1302		College Phy. II		PHYS 1143		Principles of Physics II	
PHYS 1311		Introduction to Astronomy		PHYS 1033		Introduction to Astronomy	
PHYS 1415		Phys. Science I		SCI 1114		Physical Science I	
PHYS 2325		Univ. Phys I		PHYS 2153		General Phys. I	
PHYS 2125		Univ. Phys I (lab)		PHYS 2151		General Phys. Lab I	
PHYS 2126		Univ. Phys. II (lab)		PHYS 2161		General Physics Lab II	
PHYS 2326		Univ. Phys. II		PHYS 2163		General Physics II	
PSYC 2301		General Psychology		PSY 1013		Introduction to General Psy.	
PSYC 2307		Adolescent Psychology I		PSY 2633		Adolescent Psychology	
PSYC 2312		Human Development		PSY 1603		Developmental Psychology	
PSYC 2313		Adolescent Psychology II		PSY 2633		Adolescent Psychology	
PSYC 2314		Lifespan, Growth & Dev.		PSY 1603		Developmental Psychology	
PSYC 2317		Applied Statistics		PSY 2303		Applied Statistics	
PSYC 2319		Social Psychology		PSY 2023		Social Psychology	
SOCI 1301		Introductory Sociology		SOCI 1013		Introduction to Sociology	
SOCI 1306		Social Problems		SOCI 1023		Current Social Problems	
SOCI 2301		Marriage and the Family		SOCI 2023		Marriage, Family and Intimate Relationships	
SOCI 2306		Human Sexuality		HS 2373		Human Aspects of Human Sexuality	
SOCI 2336		Criminology		SOCI 2133		Crime in America	
SOCI 2340		Drug Use and Abuse		HS 2383		Drugs and Human Health	
SPAN 1311		Beginning Spanish I		SPAN 1013		Elementary Spanish	
SPAN 1312		Beginning Spanish II		SPAN 1023		Elementary Spanish Continuation	
SPAN 2311		Intermediate Spanish I		SPAN 1033		Review of Grammar: Conversation: Reading I	
SPAN 2312		Intermediate Spanish II		SPAN 1043		Review of Grammar: Conversation: Reading II	
SPAN 2313		Spanish for Native Speakers I		SPAN 3183		Spanish for Heritage Speakers I	
SPAN 2315		Spanish for Native Speakers II		SPAN 3193		Spanish for Heritage Speakers II	
SPAN 2316		Career Spanish I		SPAN 1093		Elementary Spanish for Health Professionals I	
SPAN 2317		Career Spanish II		SPAN 1193		Elementary Spanish for Health Professionals II	
SPCH 1311		Intro. to Speech Comm.		SPCH 1013		Oral Communication	
SGNL 1301		Beg. ASL I		COMS 4553		ASL I	
SGNL 1302		Beg. ASL II		COMS 4613		ASL II	
TECA 1303		Families and the Community		FS 1603		Child in the Family & Community	
TECA 1311		Educating Young Children		FS 3663		Found. of Early Childhood Ed.*	
TECA 1318		Wellness of the Young Child		FS 2523		Wellness of the Young Child	
TECA 1354		Child Growth & Development		FS 2513		Early Childhood Development	

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