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# Degrees Offered at TWU

<i>Dept/Program</i>	<i>Bachelor's</i>	<i>Master's</i>	<i>Doctoral</i>
<b>COLLEGE OF ARTS &amp; SCIENCES</b>			
<b>Art</b>			
Art *	BA, BFA	MA, MFA	
Art History			
Graphic Design			
Clay			
Painting			
Photography			
Sculpture			
<b>Biology</b>			
Biology *	BA, BS	MS	
Medical Technology	BS		
Molecular Biology		PhD	
<b>Chemistry &amp; Physics</b>			
Chemistry *	BS	MS	
Science *		MS	
<b>English-Speech-Foreign Languages</b>			
English *	BA	MA	
Rhetoric			PhD
General Studies	BGS		▲
<b>Fashion and Textiles</b>			
Fashion Design	BA		
Fashion Merchandising	BS		
<b>History and Government</b>			
Criminal Justice	BA, BS		
History *	BA, BS	MA	
Government *	BA, BS	MA	
<b>Mathematics &amp; Computer Sciences</b>			
Computer Science	BS		
Mathematics *	BA, BS	MS, MA	
<b>Performing Arts</b>			
Dance *	BA	MA, MFA	PhD
Drama *	BA	MA	
Music *	BA, BS	MA	
Music Therapy	BS		
<b>Psychology &amp; Philosophy</b>			
Psychology *	BA, BS		
Counseling Psychology		MA	PhD
School Psychology		MA	PhD
<b>Sociology &amp; Social Work</b>			
Sociology *	BA, BS	MA	PhD
Social Work	BSW		
Women's Studies		MA	
<b>School of Management</b>			
Business *	BS		
Business Administration	BS, BBA	MBA	
Executive MBA		MBA	▲

▲ Denotes Distance Learning degree available

\* Denotes Teacher Certification

<i>Dept/Program</i>	<i>Bachelor's</i>	<i>Master's</i>	<i>Doctoral</i>
<b>COLLEGE OF PROFESSIONAL EDUCATION</b>			
<b>Family Sciences</b>			
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
<b>School of Library &amp; Information Studies</b>			
Library Science		MA, MLS	PhD ▲
<b>Reading</b>			
Reading Education *		MS, MA, MED	PhD, EDD
<b>Teacher Education</b>			
Interdisciplinary Studies	BS	MAT	
Administration		MA, MED	
Elementary Education		MA, MED	
Special Education		MA, MED	PhD
Educational Diagnostician			
Mental Retardation			
Physically Handicapped			
<b>COLLEGE OF HEALTH SCIENCES</b>			
<b>Communication Sciences &amp; Disorders</b>			
Communication Sciences	BS		
Dental Hygiene	BA		
Education of the Deaf		MS	
Speech/Language Pathology		MS	▲
Health Care Administration			
<b>Health Care Administration</b>		MHA	
<b>Health Studies</b>			▲
Health Studies	BS	MS	PhD, EDD
Kinesiology			
Exercise & Sports Nutrition		MS	
<b>Kinesiology</b>	BS	MS	PhD
<b>Nutrition &amp; Food Sciences</b>			
Food & Nutrition in Business & Industry	BS		
Food Science		MS	
Dietetics & Institutional Administration	BS	MS	
Nutrition	BS	MS	PhD
<b>School of Physical Therapy</b>			
Physical Therapy		MS	PhD
Pre-Physical Therapy	BS		
Human Biology			
Nutrition			
Kinesiology			
Psychology			



<i>Dept/Program</i>	<i>Bachelor's</i>	<i>Master's</i>	<i>Doctoral</i>
<b>SCHOOL OF OCCUPATIONAL THERAPY</b>			
Occupational Therapy		MA, MOT	PhD ▲
Pre-Occupational Therapy	BS		
Child Development			
Family Studies			
Health Studies			
Psychology			
<b>COLLEGE OF NURSING</b>			
Nursing	BS	MS	
Nursing Science			PhD ▲
<b>PRE-PROFESSIONAL PROGRAMS</b>			
Pre-Law			
Pre-Medicine			
Pre-Dentistry			
Pre-Engineering			
Pre-Pharmacy			
* Denotes Teacher Certification Option Available			

▲ Denotes Distance Learning degree available

# Introduction

## Catalog Effective Date

The provisions of this catalog apply to students entering at the beginning of or after the first semester of the 2005-2006 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.

A student transferring from another institution may choose to follow the regulations in the TWU catalog effective at the time of original entry into an accredited college or university or follow the regulations in any TWU catalog issued since the original matriculation, provided the catalog is not more than six years old and provided that the curricula and/or courses still exist.

## 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 online policy manual, *Schedule of Classes*, or the departmental/ unit web pages accompanied by the effective 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**

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

Texas Woman's University is committed to equal opportunity in employment and education and does not discriminate on the basis of race, color, religion, sex, sexual orientation, national or ethnic origin, age, veteran's status, or against qualified disabled persons except as provided by law.

The University complies with nondiscrimination regulations under Title VI and Title VII, Civil Rights Acts of 1964; Title IX, Education Amendments of 1972; Vietnam Era Veterans' Readjustment Assistance Act of 1972; Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990; the Age Discrimination Act of 1973; and other applicable statutes. Inquiries concerning University grievance procedures may be directed to the designated officials named below:

- EEO/AA/ADA Officer: Director of Human Resources, 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 76204-5379.  
Americans with Disabilities Act Coordinator: Director of Human Resources, Texas Woman's University, P.O. Box 425739, Denton, TX 76204. Students should contact the Coordinator of Disability Support Services, P.O. Box 425966, Texas Woman's University, Denton, TX 76204.

## **Board of Regents**

THERESE BARTHOLOMEW BEVERS, Houston

JERRY BROWNLEE, Hico

LINDA R. HUGHES, Dallas

KENNETH L. INGRAM, Denton

HARRY L. CRUMPACKER, II, Plano

DELIA REYES, Dallas

TEGWIN ANN PULLEY, Dallas

WILLIAM H. FLEMING, III, Houston

ANNIE F. WILLIAMS, Dallas

## **Officers of the University**

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

CHERYL SAMUELS, Provost and Vice President for Academic Affairs. B.S., Ohio State University; M.S., University of Michigan; Ph.D., University of Maryland.

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 Information Services. 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 Intensive.

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

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

- to serve as a distinct and unique institution among public institutions of higher education in Texas in order to provide undergraduate and graduate education of the highest quality in a learning environment that empowers and affirms the full development of students, primarily women;
- to place emphasis on the liberal arts and sciences, health-related and other professional studies, and research that will enhance the progress and welfare of the people of Texas, the nation, and the world in a time of rapid technological and social change;

## 10 General Information

- to encourage students to develop intellectual, humanitarian, and leadership skills that will advance their potential for service in all areas of human endeavor;
- to provide minority students, primarily women, an academic and social environment for learning, involvement, and leadership development to enable them to pursue and complete higher educational programs which afford economic mobility and independence;
- to provide educational programs to meet the needs of adult students, especially women, who wish to resume or initiate collegiate or graduate study in preparation for career entry or advancement;
- to serve as a resource and depository for information and knowledge about women and their contributions to the history and progress of the state of Texas, the nation, and the world;
- to provide service to the wider community through its on-campus health and educational clinics, lifelong learning programs, programs in the visual and performing arts, and basic and applied research in education, food science, health sciences, nutrition, and textile technology.

### **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 500 faculty members and attended by nearly 11,000 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 and in the School of Occupational Therapy.

## **The Board of Regents**

The governing body of Texas Woman's University is the Board of Regents, nine members appointed by the Governor and confirmed by the Texas Senate. The Board serves only Texas Woman's University. Three members are appointed every two years from the state at large for six-year terms. Statute requires that at least four of the nine members be women.

## **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/o-irs/factbook>.

## **Campus and Centers**

### *Denton Campus*

The Texas Woman's University main campus is located in Denton, Texas, a city of about 91,000 residents located 35 miles north of Dallas and Fort Worth, the nation's ninth largest urban 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: A Celebration of History" exhibit; the DAR Museum, which contains historic materials reflecting the culture and social life of Texas' First Ladies; and the

TWU Historical Collection, containing TWU artifacts and memorabilia. 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 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. Cooperating medical facilities include Parkland Hospital (Dallas County Hospital District), Presbyterian Hospital, Children's Medical Center and St. Paul Hospital.

Students also have selected experiences in the City of Dallas Health Department, Dallas County Health Department, Visiting Nursing Association of Dallas, the Veterans Affairs Hospital and other Dallas-Fort Worth hospitals.

### *Parkland Campus*

The Parkland site, located near Parkland and St. Paul Hospitals, was established in 1966 and features a two-story education building. Instructional facilities include general classrooms and seminar rooms, simulation laboratories, library and media resources. The nursing program began in Dallas in 1954 at Parkland Hospital.

### *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**

Established in 1960, the TWU Institute of Health Sciences-Houston is located in the Texas Medical Center, a world-renowned complex of hospitals, health-related schools and research institutions. Instructional facilities include simulation laboratories, classroom and seminar space, as well as primary preparation rooms and faculty offices. Texas Woman's University is a full participant in support and use of the Houston Academy of Medicine-Texas Medical Center Library.



## The University Library

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 531,718 print volumes and 45,000 e-book volumes, 1,562,677 microforms, and 24,562 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 from dorm, campus computer labs or from home. 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 and a manuscript collection of over 2,500 linear feet are augmented by more than 23,000 volumes in major microform collections including the Gerritsen Collection of Women's History, 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-Parkland 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.

## **Information Services**

The resources available through 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. Several of the residence halls offer Internet access to students bringing their own computers. 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/](http://www.twu.edu/is/).

## **TWU Former Students Association**

The TWU Former Students Association was organized in 1905 to support the educational aims of Texas Woman's University, its students and alumni, and to involve alumni and students in the continuing life of the University through activities and programs.

Current TWU students are invited and encouraged to participate in campus alumni activities. Homecoming, an annual April event, welcomes alumni from the College of Industrial Arts (CIA), Texas State College for Women (TSCW), and TWU back to the campus to relive memories and to experience the University as it is today. During Homecoming, the Distinguished Alumni, Outstanding Senior, and Outstanding Graduate Student Awards are presented.

Students receive a \$5 property deposit transfer card in their packet, at senior breakfast, or when they register to become a member (at graduation reception). By completing and returning the card, graduating seniors may donate to the Former Students Association to help administer and facilitate scholarships. Current students may join the association for a reduced membership of \$15 per year. Regular annual membership begins when your payment is received.

Dues paying members of the Association receive The Pioneer, the official FSA magazine, opportunities to purchase exclusive association merchandise, Association MasterCard for eligible members, eGrad (loan consolidation), discounts on Liberty Mutual Insurance, and short term health insurance. Other special programs include limited athletic and recreational privileges. For more information, students are invited to come by the Alumni House on campus at 330 E. University Dr. near Guinn Hall, call 940-898-ALUM, or visit [www.twu.edu/alum](http://www.twu.edu/alum).

## **Institutional Development**

All students, former students, and friends of TWU are invited to participate in the annual fund campaign to help meet the University's greatest needs and opportunities, which include: academic and other enrichment programs, equipment for classrooms and laboratories, student scholarships, library resources, faculty recruitment and retention, and achievement and recognition awards. Information about the annual fund and other university development programs is available from the Office of Institutional Development, Texas Woman's University, P.O. Box 425618, Denton, Texas 76204; phone 940-898-3863.

## **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 940-898-3863.

# 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 two calendar years from the term of admission if the applicant has not attended another institution of higher education. If students do not attend TWU within the two-year period from the time of acceptance, they must re-apply and submit the appropriate credentials. Students wishing to change their application term should contact the Office of Student Records Processing. 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  
e-mail: [admissions@twu.edu](mailto:admissions@twu.edu)  
telephone: (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  
email: [sr@twu.edu](mailto:sr@twu.edu)  
telephone: (940) TWU-3076 or  
1-866-809-6130; ext. 3076  
web: <http://www.twu.edu>

## Application Credentials

All new undergraduate students seeking admission to TWU must submit the following credentials. International students should refer to the International Student Admission section.

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

Please see further details about credential requirements below.

## Application Form

Texas Woman's University accepts only the Texas Common Application for Freshman Admission or the Texas Common Application for Transfer Admission. This form is available on-line at **[www.applytexas.org](http://www.applytexas.org)**, or in paper version at high school guidance offices and college Admissions Offices. The application may be submitted on-line, by mail, or in person to the TWU Office of Admissions or the Office of Student Records.

## Application Fee

Application for undergraduate admission must include an application fee of \$30. The application fee for international students is \$50. This is a nonrefundable fee and does not apply to former TWU undergraduate students who are applying for undergraduate re-admission. 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, and 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 accredited 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 transcript must bear an official seal and/or signature. Any sign of tampering with the transcript information will render it unofficial and invalid.

## 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 in person to the Office of Admissions or the Office of Student Records.

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

## University Admission Application Deadlines

International students should see the specific International Admissions requirements and deadlines in this catalog. All other students should observe the following application deadlines to ensure adequate application processing time and notification of the admission decision prior to the beginning of classes:

Fall semester application deadline: July 1

Spring semester application deadline: November 1

Summer sessions deadlines: Prior to the first day of each session

Dates of the first day of class for each semester appear in the Academic Calendar in each *Schedule of Classes* as well as on the University website.

**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): January 15-

completed application packet deadline

Dental Hygiene:

December 31

### **Deadline for Admission in Spring Semester**

Nursing (upper division): June 1 -

completed application packet deadline

**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, tetanus, hepatitis B and to have an annual TB skin test. Proof of these immunizations will be required at the time a student begins clinical course work.

Many 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.

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.

## 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 completed less than 12 credits of college 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.

### 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 which places them in the top 25 percent of their high school graduating class

Class rank shall 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 processed.

**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 which places them in the top 50 percent of their high school graduating class, and
4. Scored 950 or above (verbal and math combined) on the Scholastic Assessment Test (SAT) OR scored a 20 or above composite score on the ACT Assessment, and



5. Completed at least 14 academic credits of the Recommended Texas High School Curriculum (college-prep) as indicated\*:
  - English (4)
  - Math (3 including Alg II)
  - Science (2)
  - Social Sciences (2 - ECO and GOV required)
  - Academic Electives (3)
  - TOTAL (14)**

\*Changes to the Recommended Curriculum adopted by the state will be followed at TWU.

## Provisional Freshman Admission

Provisional Admission is for freshman applicants who do not meet all of the Assured Admission or Regular Admission requirements. All 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 courseload 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, and
3. Have not previously enrolled in any college or university.

Applicants must submit an application form, application fee, and official high school transcript or GED. Although an SAT or ACT test score is not required for admissions, official THEA scores are required prior to enrollment in coursework.

## 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. 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 Texas Common 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.

### Assured Transfer Admission

Transfer applicants who meet **both** of the criteria below will be automatically admitted to TWU. These students, having satisfied the Texas common core requirements of their previous institution, will not be required to take additional courses to satisfy the TWU core. 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 collegework attempted,\* and
3. Are in good standing at their previous institution.

Students may transfer up to 72 semester hours from junior or community colleges. All such credit is usually accepted as lower-level credit. There is no maximum number of semester hours transferred from four-year institutions.

**\*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 requirement of individual programs.**

## OTHER TYPES OF UNDERGRADUATE ADMISSION

### **High School Advantage Program** (Dual and Concurrent Enrollment)

The High School Advantage program allows students to earn college credit while still in high school. Current high school juniors and seniors with a minimum of a B average may apply for concurrent/dual enrollment in this program. In the case of dual credit, the student's high school will determine the amount and level of high school credit to be awarded for TWU courses. In order to apply, a student must submit a High School Advantage Application signed by the student, a parent/guardian, and the high school principal or guidance counselor; an official high school transcript; \$30.00 application fee, and an official THEA score showing a passing score on all three sections (or proof of exemption). The Director of Admissions must approve the request for admission.

### **Undocumented Immigrant Students - TEC 54.057(J)(4)** *(formerly known as HB1403)*

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.

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

1. Has graduated or will graduate from a Texas high school, and
2. Has resided in Texas with parents, a court appointed legal guardian, or conservator 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.

## **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 processed as international students through the International Education Office.

## **Post Baccalaureate Students Seeking a Second Degree**

Applicants who are seeking a second undergraduate degree must submit a completed 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.

Students must submit an updated application for transfer admission or the TWU Readmit Application, and an official transcript from each additional institution attended since his/her last enrollment at TWU, if applicable. Students who earned at least one credit of coursework at TWU previously are not required to pay an application fee for readmission. Students who were admitted to TWU previously but never attended or earned course credit at TWU within the last two years are required to pay the \$30 application fee.

It is recommended that application for readmission be completed and returned to the Office of Admissions 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 THEA exemption. Applicants who wish to apply for Fresh Start must submit a letter of request with the application for admission.

## 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 a letter of request with the application for admission.

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 substandard 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 in writing. The appeal should be sent to the Director of Admissions.

## INTERNATIONAL STUDENT ADMISSION

Students who do not have any of the following proofs of citizenship or permits are considered to be International students for TWU admission purposes:

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.

Students who possess any of the above documents should apply to TWU through the Office of Admissions as a domestic student. All International Student Admissions are handled through the International Education Office.

## International Application Credentials

To apply to TWU, international students should submit all of the following:

1. A completed International Undergraduate Application for Admission. The application must be signed and dated.
2. A \$50 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 out to TWU. 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 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.***
4. TOEFL 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 graduation 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 may submit official score reports for possible transfer credit. 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 considered official.

- 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 or official attested copies.
  - 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.
- Although the International Transcript Evaluator may transfer all eligible courses, the academic department connected with the student’s major must perform a second evaluation to determine which courses satisfy your degree plan. Normally, some of the courses transferred by the International Transcript Evaluator may not match the specific course requirements for the degree.
  - F-1 students transferring from U.S. colleges or universities must submit a School Transfer Notification form. These may be obtained from the Office of International Education and sent to the international student advisor of the school attended immediately prior to transfer to TWU.
3. All international undergraduate students (freshman and transfer) must present an acceptable Test of English as a Foreign Language (TOEFL) score of 550 or higher on the paper-based test, or a 213 minimum score on the computer-based TOEFL test.
- At the undergraduate level, provisional admission may be granted with a TOEFL score of 500/173. Provisional undergraduate admission will require supplementary courses in English during the student’s first two semesters of enrollment, or a score of 550/213 or higher on a TOEFL retest.
  - 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 (TIEP’s) advanced-level program as defined in the information provided by TIEP.
4. Students who have completed Level 6 at the University of North Texas’s Intensive English Language Institute.
5. Students who are citizens of Australia, New Zealand, the British Virgin Islands, Jamaica, United Kingdom, Ireland, Antigua, Northern Ireland, Phillipines, Scotland, South Africa, St. Lucia, Wales, Bahamas, Barbados, Nigeria, Kenya, Zimbabwe, Ghana, Namibia, Tanzania, Uganda, the Fiji Islands, Sierra Leone, Gambia, Liberia, Switzerland, Holland, and Canada (excluding French-speaking Quebec). Proof of citizenship such as birth certificate or passport must be provided.
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
IELTS	Overall band 6.5 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 (the immigration form required to obtain a visa) after all official papers pertaining to admission have been received and approved in the Office of International Education.



## 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 Grade 12 Statement of Standing Ontario Secondary School Graduation Diploma Quebec Senior High School Leaving Certificate Grade 12
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
France	Diploma de Bachelier de l’Enseignement du Second Degre (Baccalaureat)
Germany	Reifezeugnis or Zeugnis der Reife (Abitur)
Ghana	West African School Certificate
Greece	Lyceum Apolyterion
Guatemala	Bachiller, Certificado General de Estudios
Hong Kong	Hong Kong Certificate of Education
India	All-India Senior School certificate (Year 12), Higher Secondary School Certificate (Year 12), Higher Secondary Certificate (Std. XII), Central Board of Secondary Education Certificate (12 <sup>th</sup> grade), Intermediate Certificate
Indonesia	S.M.A. Diploma
Iran	Sixth Year Secondary Certificate
Italy	Diploma di Maturita
Ivory Coast	Diplome de Bachelier de l’Enseignement du Second Degre
Japan	Upper Secondary School Leaving Certificate (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

Latin America	Bachillerato or bachiller
Lebanon	Baccalaureat II
Malaysia	Malaysian Certificate of Education
Mexico	Bachillerato Unico
Nigeria	West African School Certificate
Norway	Examen Artium Certificate
Pakistan	Intermediate or Higher Secondary Certificate
Peru	Certificado de Education Secundaria Comun 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	Bachillerato Superior General
Sri Lanka	Sri Lanka General Certificate of Education "A" Level
Sweden	Matriculation Certificate (Avgansbetyg)
Taiwan	Senior High School Diploma, or Junior Middle School Di- ploma with 5 year Junior College Diploma
Thailand	Higher Secondary School Certificate (M6/Maw VI)
Turkey	State Secondary School Diploma (Devlet Lise Diplomasi), Secondary School Completion Diploma (Lise Bitirme Diplomasi)
United Kingdom	General Certificate of Education "O" Levels, General Cer- tificate of Secondary Education "O" Level
Venezuela	Bachillerato en Ciencias or en Humanidades
Vietnam	Tu Tai II (Baccalaureat II)
Yugoslavia	Prior to 1980 — Matura. Since 1980 — Secondary School Leaving Diploma
Zimbabwe	Advanced and Ordinary level General Certificate of Educa- tion 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 should be sent to the Office of Student Records Processing.

## Satisfactory Scores Required to Earn College Credit Hours

### CLEP Subject Examinations

CLEP Subject Test	Paper & Pen	CBT (Computer Based Test)	Credit Granted	TWU Equivalent Course
<b>Composition &amp; Literature</b>				
American Literature	50	50	3 hrs	ENG 2033
Analyzing & Interpreting Literature	50	50	3hrs	ENG TITLE*
English Composition with or without Essay	50	50	3hrs	ENG 1013
	80	80	6hrs	ENG 1013, 1023
English Literature	50	50	3hrs	ENG 2013
	80	80	6hrs	ENG 2013, 2023
Freshman College Composition	60-79	60-79	3hrs	ENG 1013
	80	80	6hrs	ENG 1013, 1023
<b>Foreign Languages</b>				
French - Level 1	44-58	50	3hrs	FR 1013
French - Level 2	59-79	59-79	6hrs	FR 1013, 1023
	80	80	9hrs	FR 1013, 1023, 1033
Spanish - Level 1	44-58	50	3hrs	SPAN 1013

Spanish - Level 2	59-79 80	59-79 80	6hrs 1023 9hrs	SPAN 1013, SPAN 1013, 1023, 1033
German - Level 1	44-58	50	3hrs	FL TITLE *
German - Level 2	59-79 80	59-79 80	6hrs 9hrs	FL TITLE * FL TITLE *
<b>Social Sciences &amp; History</b>				
American Government	47	50	3hrs	GOV 2013
History of US - I	47	50	3hrs	HIST 1013
History of US - II	46	50	3hrs	HIST 1023
Human Growth & Development	45	50	3hrs	PSY 1603
Humanities	420-500	50	3hrs	TITLE*
Intro. To Educ. Psychology	47	50	3hrs	PSY TITLE*
Prin. Of Macroeconomics	44	50	3hrs	ECO 1023
Prin. Of Microeconomics	41	50	3hrs	ECO 1013
Intro. To Psychology	47	50	3hrs	PSY 1013
Social Sciences & History	420-500	50	3hrs	TITLE*
Intro. To Sociology	47	50	3hrs	SOCI 1013
Western Civilization - I	46	50	3hrs	HIST 2013
Western Civilization - II	47	50	3hrs	HIST 2023
<b>Science &amp; Mathematics</b>				
Biology	46	50	8hrs	BIO 1111, 1113, 1121, 1123
Calculus	47	50	8hrs	MATH 2014, 2024
Chemistry	47	50	12hrs	CHEM 1111, 1113, 1121, 1123
College Algebra	46	50	3hrs	MATH 1303
College Algebra - Trig.	45	50	3hrs	MATH 1313
College Mathematics	420-500	50	3hrs	MATH 1303
Natural Science	420-500	50	3hrs	SCI 1113
Trigonometry	50	50	3hrs	MATH 1313
<b>Business</b>				
Prin. Of Accounting	75	50	6hrs	BUS 2043, 2053
Intro. Business Law	51	50	3hrs	BUS 3013
Information Systems & Computer Applications	52	50	3hrs	CSCI 1403
Prin. Of Marketing	50	50	3hrs	BUS 3113
Prin. Of Management	46	50	3hrs	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
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: Theses courses should be accepted as title courses.

## GRADUATE ADMISSION

Specific requirements are outlined in the graduate catalog. To obtain a copy of the graduate catalog contact: Office of Admissions, Texas Woman's University, P.O. Box 425589, Denton, Texas 76204. E-mail: admissions@twu.edu. The catalog is also available online at [www.twu.edu](http://www.twu.edu).

# 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 TWU telephone registration system by credit card. See the *Schedule of Classes* for details.

### 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, 2005-2006 .....	\$123.00 per semester hour
Qualifying Oklahoma resident students .....	\$270.00 per semester hour
Nonresident (out-of-state and foreign) students ..	\$399.00 per semester hour

#### Graduate

Resident (in-state) students, 2005-2006 .....	\$163.00 per semester hour
Nonresident (out-of-state and foreign) students ..	\$439.00 per semester hour

*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.

#### *Veterans Administration Benefits*

Texas Woman's University honors the Montgomery G.I. Bill 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. Hinson-Hazlewood recipients should contact the Bursar's Office for those benefits.

#### *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 Nonresident Tuition for Resident Students.* To avoid being charged nonresident tuition, resident students should be aware of the number of credit hours required for their degree and avoid taking more than 45 hours above the program requirement. By state law, out-of-state tuition will be charged to any resident undergraduate student who, before the semester or other academic session begins, has previously attempted a number of semester credit hours 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 (*Texas State Education Code* Subchapter C, Section 61.0595). 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 remedial 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.

*General Property Deposit.* A deposit of \$5.00 is collected as prescribed in Section 54.502, Texas School Law Bulletin (Education Code). This deposit is to insure the institution against losses, damages, and breakage in libraries and laboratories. Once the student has withdrawn or graduated, a request can be made to return the deposit less any loss, damage, or breakage caused by the student. Upon graduation, the deposit can be assigned to the National Alumnae Association where the money is applied toward membership dues. If the deposit is not redeemed within four years, it will be placed in the general scholarship fund.

*Graduate School Application Fee.* A \$30.00 non-refundable application fee will be assessed all students who apply for admission to the Graduate School.

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

*International Education Fee.* A \$1.00 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 \$25.00 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 \$50.00 per semester will be assessed all students who enroll for the fall, spring, or summer III. A \$25.00 fee will be charged to all students who register during a summer I or summer II or \$12.50 for a May-Mester term.

*Medical Services Fee.* A medical services fee of \$39.00 per semester will be assessed all students who enroll for the fall, spring, or summer III and a \$19.50 fee will be charged to all students who register during a summer I or summer II or \$9.75 for a May-Mester term. The medical services fee is used to provide medical services to students at the University.

*Publication Fee.* A \$10.00 publication fee will be charged to all students who register during the fall, spring, or summer III semesters and a \$5.00 publication fee will be charged to all students who register during a summer I and summer II or May-Mester term. The publication fee is used to defray the cost of publishing the University catalogs, schedules of classes, and other student-oriented University publications

*Student Center Fee.* A student center fee of \$27.50 will be charged to all students who register during the fall, spring, or summer III semesters and a \$13.75 fee will be charged to all students who register during a summer I or summer II term, or \$6.88 for a May-Mester term. 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.* A \$2.00 non-refundable fee to cover the cost of the student identification card is required of all students who register for each fall semester, spring semester, and summer I, summer II, and summer III or May-Mester term.

*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 \$19.64 per semester credit hour not to exceed the following **maximums**:

- \$176.56 per semester during the fall and spring semesters or summer III
- \$88.38 for summer I or summer II terms
- \$44.19 for May-Mester term

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 \$30.00 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 \$3.00 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**

*Bad Checks (Subject to Change).* A service fee of \$30.00 will be levied on all returned checks 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 \$5.00 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-half payment of tuition and fees in advance of the beginning of a fall or spring semester and separate, one-quarter payments prior to the start of the sixth class week, and eleventh class week. 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 above-stated 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 pro-rated 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 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 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, 2nd, or 3rd class day of the session	80%
During the 4th, 5th, or 6th class day of the session	50%
7th 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.

## 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 1** 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 in Honors Program  
 Bertha A. Hubbard Endowed 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  
 Eunice and Josie Maye McKenney Endowed Scholarship  
 Fasken Foundation Scholarship  
 George and Fay Young General Scholarship  
 George and Sarah Button 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  
 Johnie Christian Endowed Scholarship

Josephine Henry Cox Endowed Scholarship  
Kate Adele Hill 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 Threase 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 in Honors Program

## **Special Interest Scholarships**

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

### **Alumni/ Former Student Association Undergraduate Scholarships**

**NEW OR CONTINUING STUDENTS**

Alumnae Emerson Scholarship  
Gretna Cobbs Bedford Davis Endowed Scholarship

### **Athletics Undergraduate Scholarships**

**NEW OR CONTINUING STUDENTS**

Bill and Ruth Vogel Endowed Scholarship for TWU Gymnastics  
Donna Terry Endowed Softball Scholarship  
Dr. Boots Cooper Endowed Athletic Scholarship  
Dr. Norman Chater Memorial Endowed Scholarship  
Giles-Galloway Athletic Scholarship  
Jo Kuhn Endowed Scholarship for Women's Athletics  
Kitty Magee Sportswoman Endowed Scholarship

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Pioneer Athletic Scholarships  
Sandra Souza Endowed Memorial Scholarship

### **Housing Undergraduate Scholarships**

#### **NEW OR CONTINUING STUDENTS**

MacGray Residence Hall Scholarship

#### **SINGLE PARENT STUDENTS**

Dawson Endowed Scholarship  
William Randolph Hearst Endowed Scholarships for student/parents

### **Houston Campus Undergraduate Scholarships**

#### **NEW OR CONTINUING STUDENTS**

Helene Fuld Health Trust  
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 Memorial Scholarship  
Judith Buchanan Davis Endowed Memorial Scholarship  
Mary Joyce Newsom Endowed Scholarship  
Michael B. Duchin Endowed Memorial Scholarship

## **Academic Major Scholarships**

### **Arts, School of**

#### **Dance Undergraduate Scholarships**

##### **NEW OR CONTINUING STUDENTS**

Dance Scholarship  
Frankie B. Clark Endowed Memorial Scholarship

#### **Drama Undergraduate Scholarships**

##### **NEW OR CONTINUING STUDENTS**

Ann Bradshaw Stokes Foundation Scholarship  
JoAn Rutledge McDaniel Endowed Scholarship  
Betty King Dramatic Arts Endowed Scholarship

#### **Music Undergraduate Scholarships**

##### **NEW OR CONTINUING STUDENTS**

Betty King Music Endowed Scholarship  
Caroline Bellamy Endowed Music Scholarship



Hufford Endowed Scholarship  
Marion E. Jones Snowden Endowed Memorial Scholarship  
Mary Beth Glover Endowed Scholarship  
Rosabelle Ragin Pridmore Endowed Memorial Scholarship  
Rudd Endowed Scholarship and Loan Fund  
Sarah Verna Cox Coffey Endowed Scholarship  
Stella Owsley Endowed Memorial Scholarship

**CONTINUING STUDENTS**

Lee and Virgie McDaniel Music Scholarship  
Presser Foundation Scholarship  
Richard and Marji Bentley Endowed Music Scholarship

**Performing Arts Undergraduate Scholarships**

**NEW OR CONTINUING STUDENTS**

Jan Lowrie Memorial Scholarship

**Visual Arts Undergraduate Scholarships**

**NEW OR CONTINUING STUDENTS**

Hazel Ruth Nelson Snodgrass Endowed Scholarship  
Mabel E. Maxcy Endowed Scholarship  
Marie Delleney Endowed Memorial Scholarship in Art  
Mary Beth Glover Endowed Scholarship  
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 Scholarship in Art  
Ludie Clark Thompson Scholarship in Art  
Norine Kitsinger Art Education Scholarship

**Biology Undergraduate Scholarships**

**NEW OR CONTINUING STUDENTS**

Jessie Louise Herrick, M.D., Pre-Medical Endowed Scholarship  
Marguerite Dickson Barber Sciences 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

**NEW & CONTINUING STUDENTS**

Dr. Helen A. Ludeman Endowed Scholarship  
Jessie Louise Herrick, M.D., Pre-Medical Endowed Scholarship  
Marguerite Dickson Barber Sciences Endowed Scholarship  
Peggy and L.M. Waddell Endowed Scholarship  
Willis Clark Endowed Research Scholarship and Fellowship in Chemistry  
George Stuart Memorial 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 in Speech or Hearing

**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  
Rebecca Switzer Endowed Scholarship in English  
Roberta Clay Memorial Scholarship  
Rod and Louise Kelly Lowery English Scholarship  
W.J. Chaminade Scholarship

**CONTINUING STUDENTS**

JoAn Rutledge McDaniel Endowed Scholarship  
Joyce C. Palmer Scholarship  
Maurine Faulkner Endowed Scholarship

Omega Rho Alpha Endowed Scholarship in Honor of Agnes Tramel  
and Mildred B. Nelson  
Sigma Tau Delta Scholarship

**Family Sciences Undergraduate Scholarships**

**NEW OR CONTINUING STUDENTS**

Ardella 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**

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

**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

Paul P. and Arlee N. Young Endowed Scholarship

Professor and Mrs. John L. Dawson, Sr., and Dr. and Mrs. Hubert Driggs  
Endowed Scholarship

Sarah Weddington Endowed Scholarship

#### **CONTINUING STUDENTS**

Eleanor Roosevelt Scholarship Endowment

Francis W. Emerson Scholarship in History and Government

### **Kinesiology Undergraduate Scholarships**

#### **NEW OR CONTINUING STUDENTS**

Darlene A. Kluka Scholarship in Kinesiology

Beverly Enterprises Scholarship

Anne Schley Duggan Endowed Scholarship

Jean Pyfer Scholarship

Margot Purdy Memorial Scholarship

Margaret Varner Bloss Scholarship

Marguerite Ann Murphy and Mary Agnes Murphy Memorial Scholarship

#### **CONTINUING STUDENTS**

Roberta "Bobbie" Peters Scholarship

E. Anne Sugars Endowed Scholarship

Ivalene & Robert Sherrill and Marilyn Hinson Scholarship

Joyce M. Cronk, Ph.D. Endowed 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 Foshee Scull Scholarship

Mary Beth Glover Endowed Scholarship

Maude Hemperley Pettit Endowed Scholarship

Eliseo and Berta T. Garcia Endowed Scholarship

**Mass Communications Undergraduate Scholarships**

**NEW STUDENTS (FRESHMEN)**

Frank C. Rigler Endowed Journalism Scholarship

**NEW OR CONTINUING STUDENTS**

Caro Brown Endowed Scholarship

Mary K. Sparks Scholarship

Mary Stewart Endowed Scholarship

Ruth James Wingo Endowed Journalism 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  
Memorial Scholarship Endowment Fund

Antoinette M. Nagengast Endowed Scholarship

**NEW OR CONTINUING STUDENTS**

Carolyn S. Gunning Endowed Scholarship

John Winston Carter Endowed Scholarship

Judith Buchanan Davis Endowed Scholarship

Mary Alice Harris Metcalf Endowed Scholarship

Mary Ann Baker Endowed Scholarship

Mary Ethel Sowers Endowed Nursing Scholarship

Mary Gibbs Jones Scholarship in Nursing Education

Michael B. Duchin Endowed Scholarship

P. C. and Josephine Del Barto Endowed Scholarship

Parry Endowed Scholarship

Texas Federation of Women's Clubs, Fannie C. Potter  
Endowed Memorial 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  
Parkland/TWU Nurses Endowed Scholarship in Memory  
of Louise E. Haynes  
Soraya and Joseph Fletcher and Carolyn S. Gunning Nursing Scholarship  
Terry L. Hodges Endowed Memorial Scholarship  
Dorothy Talbert Nursing 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**

Alleen Yeary Standifer Endowed Scholarship  
Ardella Helm Endowed Scholarship  
Betty Igo Duncan and Diane Elizabeth Duncan Endowed Scholarship  
Claude and Isla Castleberry Scholarship  
Claudia G. Williams Endowed Scholarship  
Doris McCarter Brownell Endowed Scholarship  
Florence Langford Endowed Scholarship  
Ima Jean Boenker Scholarship  
John Bascom and Kathryn Morris Endowed Scholarship  
Julia Hunter Endowed Scholarship  
Kennon S. Moffitt Scholarship  
Maurine Faulkner Endowed Scholarship  
Nutrition and Food Science Scholarship  
Ruth Adkisson Hare Endowed Scholarship  
Susie G. Carlisle Endowed Scholarship

#### **CONTINUING STUDENTS**

Mary Anne Carter Duke Ebert Endowed Scholarship

### **Teacher Education Undergraduate Scholarships**

#### **NEW OR CONTINUING STUDENTS**

Clifton Tinsley Sparks Memorial Scholarship  
Dr. Ethel M. Leach Scholarship  
Gabrielle and Joseph Crighton Endowed Scholarship  
Grace Fewell Carothers Endowed Scholarship  
Kathryn and Alex Williams Endowed Scholarship  
Mildred Dulaney Endowed Scholarship  
Nita Parker Brodgon Endowed Scholarship  
P. C. and Josephine Del Barto Endowed Scholarship  
Patrick Griffin Scholarship  
Ralph and Kay West Scholarship Endowment in Honor of  
Frances Myers deCordova

CONTINUING STUDENTS

Melvin E. Rust, Nathan Howell, John E. Riley Scholarship

**Special Education Undergraduate Scholarships**

NEW OR CONTINUING STUDENTS

Sondra Bonnington Endowed Special Education Scholarship

CONTINUING STUDENTS

Nina Scott Hulsey Endowed Scholarship

**Psychology & Philosophy Undergraduate Scholarships**

NEW OR CONTINUING STUDENTS

Undergraduate Scholarship Endowment

**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

CONTINUING STUDENTS

Daniel Forrister 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 Application for Student Financial Aid (AFA) 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/](http://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 1
*Summer Financial Aid:	March 1
*Fall/Spring Financial Aid:	April 1
*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/](http://www.twu.edu/finaid/) or by contacting the TWU Office of Student Financial Aid, P.O. Box 425408, Denton, Texas 76204-5408, (940) 898-3050 or (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.

***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

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 \$4,050 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.

**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 tuition and fees. Applicants must be Texas residents who have exceptional documented financial need, enroll at least three-quarter time (nine 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 three-quarter time enrollment (nine 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 three-quarter 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.

TEXAS Grant recipients enrolled in a teacher certification program as a junior or senior may be eligible for the Teach for Texas Conditional Grant. This program is a loan with cancellation provisions for teaching. (See Teach for Texas Conditional Grant below.)

**Teach for Texas Conditional Grant.** This program is a loan with cancellation provisions for qualified teaching. Awards are based on financial need and number of years needed to complete the teacher education program.

Eligible recipients must:

- Be studying in a teaching field certified as having a critical shortage of teachers in Texas in the year in which the recipient begins the educator certification program or agrees to teach in a Texas community certified as experiencing a critical shortage of teachers in any year in which the recipient fulfils the teaching obligation,
- Enter into an agreement with the Texas Higher Education Coordinating Board to teach full time for five years at a preschool, primary, or secondary level in a school in Texas in the recipient's chosen shortage field or in a community experiencing a critical teacher shortage, and
- Sign a promissory note acknowledging the conditional nature of the grant and promising to repay the grant plus interest of 7% if the commitment to teach is not honored.

## 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 \$5,760 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/](http://www.twu.edu/finaid/), by phone by dialing (940) 898-3050 and selecting “Entrance Loan Counseling” from the menu, 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	\$4,000	\$20,000
Graduate	\$6,000	\$40,000*
*Includes amounts borrowed at the undergraduate level.		

**Federal Subsidized Stafford Student Loan (Guaranteed 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.

Both Subsidized and Unsubsidized Stafford 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 Office of Student Financial Aid or online at [www.twu.edu/finaid/](http://www.twu.edu/finaid/). 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 <u>Level</u>	Maximum Annual <u>Amount</u>
Freshman	\$2,625
Sophomore	\$3,500
Junior	\$5,500
Senior	\$5,500
Graduate	\$8,500

**TABLE 2****Cumulative Maximums for Stafford Loans:  
Subsidized + Unsubsidized**

Dependent Undergraduate Subsidized + Unsubsidized	\$23,000
Independent Undergraduate Subsidized only	\$23,000
Unsubsidized + Unsubsidized	\$46,000
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**

<i><b>Borrower's Academic Level</b></i>	<i><b>Annual Maximum</b></i>
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 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. Both Subsidized and Unsubsidized Stafford Loans are made by commercial lenders such as banks and credit unions. A list of possible lenders may be obtained by contacting the Office of Student Financial Aid or on-line at [www.twu.edu/finaid/](http://www.twu.edu/finaid/).

**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	\$2,625	\$6,625
Sophomore	\$3,500	\$7,500
Junior	\$5,500	\$10,500
Senior	\$5,500	\$10,500
Graduate	N/A	\$18,500



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 \$3,590 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](http://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 5.25% 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 \$10,000 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/](http://www.twu.edu/finaid/).

## **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/](http://www.twu.edu/finaid/).

# Academic Information

## ACADEMIC PLANNING

### Academic Advising

All TWU students meet with the Academic Advising Center or faculty advisers in their major program prior to registering each semester. Students work with advisers to develop a schedule of courses needed to complete degree requirements. When the schedule is approved, the adviser gives the student an advising code for registration.

Working with advisers supports academic success. Academic advisers 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 advisers to stay informed about current institutional policy, departmental scholarships, and support services.

### Academic Advising Center

The Academic Advising Center is responsible for advising all freshmen, undecided majors, pre-professional majors and provisional admits. Additionally, the AAC serves as the THEA office for the university, which includes monitoring THEA compliance, enforcing THEA regulations and administering “Quick THEA.” The Academic Advising Center is also responsible for the UNIV 1011 course, designed to prepare students to succeed in the higher education setting. For a more comprehensive explanation of the Academic Advising Center, students may call (940) 898-3850 or visit the website at [www.twu.edu/aac](http://www.twu.edu/aac).

### Credit Hour Load

Recommended course loads vary among degree programs. Students are responsible for developing course load plans in consultation with an academic adviser in their degree program. Students who choose to register for more courses than recommended for the degree program or who take course work

other than that approved by their academic adviser do so at their own risk. Students are ultimately responsible for the academic decisions that they make and the consequences that result from those decisions.

## **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 program. 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 participants. For more information, contact the Academic Advising Center at 940.898.3850 or [www.twu.edu/aac/](http://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, 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/rebate\\_plan.html](http://www.twu.edu/Registrar/rebate_plan.html)).

## **ACADEMIC TESTING**

### **Credit by Examination**

For information on credit by examination, see the section on credit by examination in the Admissions section of this catalog (p31-33).

### **Texas Success Initiative and THEA**

The Texas Higher Education Assessment (THEA) is required by Texas law to ensure that students enrolled in all Texas public colleges and universities possess the academic skills needed to perform effectively in college-level course work. The THEA Test is given several times yearly on specific dates at designated sites, including TWU. Computer-administered testing is available at several off-campus sites. THEA guidelines at TWU are available at [www.twu.edu/aac](http://www.twu.edu/aac). The THEA Test Registration Bulletin is available from the

Office of Admissions, the Academic Advising Center, and the THEA website at [www.thea.nesinc.com](http://www.thea.nesinc.com). THEA guidelines are subject to change through Coordinating Board directives or legislative action.

All undergraduate students enrolling at Texas Woman's University who are not otherwise exempt must attempt the THEA test prior to enrolling for classes.

### THEA Exemptions

Students are exempt from THEA requirements if they meet at least one of the following requirements:

1. Have satisfactory scores not older than 5 years on ACT, SAT, or satisfactory scores not older than 3 years on TAKS, TAAS as follows:
  - ACT: 23 composite, 19 English, 19 math
  - SAT: 1070 combined, 500 verbal, 500 math
  - TAAS: 1770 in writing, 86 math, 89 reading
  - TAKS: Math 2200 and/or Language Arts 2200 (scale scores)

Students can be exempt from either a portion or all of THEA based on these tests, depending on scores and composites.

2. Are on active duty or have received an honorable discharge (after 1991) from the armed forces of the United States or Texas National Guard, or be a current member of the reserves with 3 years in reserves prior to enrollment.
3. Have met readiness standard at another Texas public institution
4. Are a non-degree seeking or non-certificate seeking student.

**PLEASE NOTE:** Exemption from THEA does not apply to students entering teacher education. They must complete all THEA requirements prior to enrollment in professional education coursework.

Transfer students from out of state or Texas private institutions may be eligible to use transferred courses to satisfy THEA requirements. A student must have earned a course grade of "C" or higher 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 THEA requirements.

Development work is required for students who do not pass all three sections (reading, writing, and mathematics) of the test; those students must participate continuously in a developmental program in the subject area(s) not passed. Normally, developmental courses will consist of ERDB 1003, Fundamentals of College Reading and Learning; ENG 1003, Introduction to Writing; MATH 1113, Fundamentals of Algebra; or MATH 1123, Transition to College Mathematics.

## 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 periodically throughout the year. Exemption from placement testing in math and English may be granted when scores on the SAT, ACT, TAKS, or THEA indicate high probability of success in core courses. No exemptions are available for science placement tests.

NOTE: Texas Woman's University may require higher passing scores than state THEA minimum levels for participation in designated core curriculum courses. See [www.twu.edu/aac](http://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/placement](http://www.twu.edu/aac/placement). For specific test information, students may call these departments: ENGLISH – (940) 898-2341; MATH – (940) 898-2166 and SCIENCE – (940) 898-2568.

## CORE CURRICULUM REQUIREMENT

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 fall 2005 or later. Students entering after that time should contact faculty advisers or the Academic Advising Center for updates to the TWU Core Curriculum.

The TWU Core Curriculum is a rigorous and challenging program of general education designed to:

1. Promote students' mastery of basic intellectual competencies - reading, writing, speaking, listening, critical thinking, and computer literacy;
2. Establish multiple perspectives on the individual and the world in which she or he lives
3. Enable students to understand the responsibilities of living in a multicultural world;
4. Familiarize students with contributions by and about women in various disciplines and acquaint students with major texts, trends, and issues in women's studies;
5. Provide the combination of skills, liberal studies, and insights into contemporary issues needed by students who aspire to positions of leadership.

## TWU Core Curriculum Requirements

To ensure that they select the appropriate courses for completion of the TWU core and for 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.

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.

**NOTE: Students entering in Fall 2005 will follow the core curriculum described in this catalog. The core is being revised and will be different for students entering Fall 2006 or later. Consult the Academic Affairs website for changes.**

## TWU Core Curriculum Courses

<u>State Core Area</u>	<u>Component area</u>	<u>Required Semester Credit Hours</u>
Communication	Composition	6
Mathematics	Mathematics	3
Sciences	Natural Sciences	6-8
Arts	Visual and Performing Arts	3
Humanities	Literature, philosophy, modern or classical languages	3
Social Studies	U.S. History*	6
	Political Science*	6
	Social/Behavioral Science	3
Institutional Option	Women's Studies	3
	Multicultural Studies	3
<b>Total</b>		<b>42 (Minimum)</b>

\*Courses for these requirements are state mandated.

Approved courses for the TWU Core Curriculum described above are listed in the TWU website within the Academics section and at the Academic Advising Center website.



## 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.

## Core Competencies

The core curriculum includes basic intellectual competencies inherent in core courses – reading, writing, speaking, listening, 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.

## Curriculum for Undeclared Majors

First-time-in-college students who have not declared a major should take the courses in the required core curriculum during the first two years. Students may delay declaring a major while completing the core curriculum; 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

### Core Curriculum Transfer Policy

Texas requires a minimum of 42 and allows a maximum of 48 credit hours for the core curriculum. 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 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.

If TWU adopts a core curriculum of more than 42 hours, the following rule will be observed for transfer students who have completed a 42 hour core:

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.

### *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 advisors' and students' use: **[www.twu.edu/admissions/transfer/](http://www.twu.edu/admissions/transfer/)**.

### *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. The Transfer Admissions website at TWU lists the core requirements of several Texas community colleges and their TWU equivalencies for advisors’ and students’ use: [www.twu.edu/admissions/transfer/](http://www.twu.edu/admissions/transfer/).

## **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 visit the Transfer Admissions office or website at [www.twu.edu/admissions/transfer/](http://www.twu.edu/admissions/transfer/).

## **Limits on Transfer of Credits**

Texas Woman’s University accepts up to 72 semester credit hours from community colleges. Texas universities are not required to accept in transfer or toward a degree more than 66 semester credit hours of academic credits earned by a student in a community college. Universities may choose to accept additional credit hours as determined by individual programs.

TWU does not limit the number of hours transferred from 4-year institutions, but students must observe the TWU residency requirement for graduation (see Graduation Requirements section). In addition students should be aware of the excess hours limitation as it applies to tuition (see Cost of Attendance section). There are also limits on the number of hours that a student can attempt or earn toward each degree and continue to receive financial aid (see Maximum Attempted Hours in Financial Aid section). When courses are accepted by the University, each program determines which transferred courses may be accepted to apply to the major; others are transferred as electives.

All public colleges and universities must accept transfer of credit for successfully completed courses identified in the “Community College General Academic Course Guide Manual” as applicable to an associate or baccalaureate degree in the same manner as credit awarded to non-transfer students in that major.

In accord with state regulations, each institution shall be required to accept in transfer into a baccalaureate degree the number of lower division credit hours

in a major which are allowed for their non-transfer students in that major; however,

(1) No institution shall be required to accept in transfer more credit hours in a major than the number set out in the applicable Coordinating Board approved Transfer Curriculum for that major (*Field of Study plan\**), as prescribed by the current issue of the Coordinating Board's guide to transfer curricula and transfer of credit, Transfer of Credit Policies and Curricula. For details and Field of Study plans, see the Coordinating Board website: <http://www.theccb.state.tx.us/>.

(2) In any major for which there is no Coordinating Board approved (Field of Study) Transfer Curriculum,\* no institution shall be required to accept in transfer more lower division course credit in the major applicable to a baccalaureate degree than the institution allows their non-transfer students in that major.

(3) A university may deny the transfer of credit in courses with a grade of "D" as applicable to the student's field of study courses, core curriculum courses, or major.

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 under consideration. These and others as they are approved can be found on the Texas Higher Educating Board website ([www.theccb.state.tx.us/](http://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 TWU Student Records Office. 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 qualifies students to take undergraduate-level courses only, 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 Dishonesty**

Academic dishonesty includes cheating, plagiarism, collusion, fabrication, falsification, falsifying academic records, and other acts intentionally designed to provide unfair advantage to the student and/or the attempt to commit such acts. See the section on Academic Dishonesty in the Student Handbook and Student Life section of this catalog for details.

### **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.

## **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; 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 Descriptions**

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 second and third digits distinguish one course from another within the same department; 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).

## **Texas Common Course Numbering System (TCCNS)**

The Texas Common Course Numbering System is designed to aid students in the transfer of general academic courses between colleges and universities throughout Texas. Common courses are freshman and sophomore academic credit courses that have been identified by institutions that are members of the 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. TCCNS numbers appear following TWU course numbers when applicable in 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. 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 at the end of this catalog. For more information, see the Transfer Admissions website: [www.twu.edu/admissions/transfer/](http://www.twu.edu/admissions/transfer/).

## 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 computation of the cumulative grade point average. It is determined at the close of the fall and spring 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.

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

### Academic Dean's List

Based on grade point averages in a fall or spring semester, undergraduate students who complete at least 12 graded credit hours (excluding courses with pass/fail, CR, PR) 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 45 semester credit hours must be earned at TWU 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.

Grades are interpreted as: A, Excellent; B, Good; C, Average; D, Inferior but passing; F, Failure; CR, Credit; PR, In Progress (normally used for developmental course, 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 most recent grade is counted for repeated coursework.

**Incomplete (I)** grade is given only when a student is doing passing 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](http://www.twu.edu/Registrar/forms).

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 grade for the later class 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.

## Withdrawing from 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 adviser, 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

Undergraduate grade appeal procedures and time limits of a department, college, or school shall be followed. If the student wishes to appeal the decision made at the Dean’s level, the student may file a final appeal to the Office of the Provost and Vice President for Academic Affairs. This notice of appeal must be

in writing and received by the Office of the Provost and Vice President for Academic Affairs within 14 calendar days after the date of the decision of the Dean. The policy on academic review and appeal procedures in the Graduate School is outlined in the Current Graduate Catalog.

## **Course Repetition**

When a course is taken more than once, the grade used to compute the student's GPA is the most recent grade. After taking a course twice, the student is charged non-resident tuition for all subsequent enrollments in that course.

## **Class Attendance**

The University expects students to attend all classes regularly and punctually. Class attendance is normally addressed in the instructor's syllabus. The only excused absences are for (1) illness certified by a physician, (2) serious illness or death in the student's immediate family, or (3) absence from the campus with the sanction of the University or for a religious holiday.

Absences do not exempt students from academic requirements. Students must consult with instructors regarding the completion of make-up work. 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.

Instructors may keep a record of class attendance. Therefore, students should make every effort to attend class. In the event that a student must miss class due to an excused absence, the student may obtain an absence memo from the Office of Student Life. The student will be responsible for providing the Office of Student Life with the proper verification for the absence. For situations that do not meet these guidelines, the student is responsible for contacting the professors directly. Students should contact the Office of Student Life, (940) 898-3615 or visit the Student Center 206 on the Denton Campus, for assistance.

In accordance with section 51.911, Texas Education Code, Texas Woman's University allows a student who is absent from class for the observance of a religious/holy day to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence. By the 15th day of the semester the student must notify the instructor of each class that the student will be absent.

## **Academic Probation**

Students who fail to maintain academic good standing are placed on academic probation or suspension. (GPA of 1.8 for students with 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. 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.

- Students placed on academic suspension for the first time are not allowed to enroll at TWU for the next long semester.
- Students placed on academic suspension for the second time are not allowed to enroll at TWU for both of the next two long 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.

When the suspension period has expired for suspended students, their status upon enrolling is academic probation. They may not enroll without completing a Suspension Recovery Contract, which is available in the Registrar's Office.

**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 of a semester or the 4th class day of a summer session 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:
- Academic Advising Center
  - 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 correct information in records, students use a standard form available in the Office of the Registrar at any TWU campus location. 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 is required. For address changes, students should make the changes in Pioneer Portal. 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: 940-898-3097

## Transcript Requests

Regular office hours are 8 a.m. to 5 p.m., Central Time, Monday 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 and the blocking offices have notified the Transcript Office of payment clearance. No official transcript order can be accepted by fax, 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 \$5.00 for each copy requested.

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

Except for peak order times, such as during registration periods and after graduation, most orders can be mailed or picked up within 24 to 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**

### **Academic Advising Center**

See description of services in Academic Planning section above (p64).

### **Disability Support Services**

Disability Support Services provides support for an education for individuals with disabilities through equal access to university programs. In addition to providing services and accommodations to students with disabilities as mandated by Section 504 of the Rehabilitation Act and the Americans with Disabilities Act, the DSS staff works closely with faculty and staff in an advisory capacity and assists in the development of reasonable accommodations that allow students with disabilities to fully participate in all of the programs offered on campus. Students seeking services are required to submit an application and documentation which verifies the functional limitations of their disability to the DSS office.

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 105 or through the website: [www.twu.edu/dss](http://www.twu.edu/dss). For additional information, please call (940) 898-3835 (v) or 898-3830 (tty).

### **Mathematics and Technology Success Center**

The TWU Math and Technology Success Center assists students in reaching their educational goals in math and technology through technology programs and individual or group tutoring. Located in MCL 310, this center provides tutoring to TWU students who are enrolled in mathematics and technology courses, enrolled in any courses with mathematics or technology components, or preparing to pass the mathematics section of THEA. 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. These tests determine who should be entered in science review 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/](http://www.twu.edu/slrc/).

## **The Write Site**

The Write Site is the university's writing, language, and research center which serves the entire University community through individualized and computer-aided writing and language instruction, special workshops and programs on writing-related topics, and as a writing resources center. 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@venus.twu.edu](mailto:owl@venus.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 programs are held in May and December in Denton, and in December in Houston.

**Degree Plan Deadline.** At least one year before the intended semester of graduation any student planning to graduate should submit a degree plan to the dean of the student's academic component. The deans will file that student's degree plan with the Registrar's Office as soon as possible after that submission.

**Application Deadlines for Graduation.** By the 12th class day (longterms or 4th class day in summer) of the semester of graduation, the student must file the application for graduation in the Office of the Registrar by the published deadline. Contact the Registrar's Office early to request application forms. (See University Calendar and Registrar's website for deadlines.)

### Grade Point Requirements

A graduating senior must have 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 most recent 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. (3) Thirty (30) of the last 36 credit hours must be completed at TWU.

### 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.

## Foreign Language Requirement

Some majors require 12 hours of a foreign language for the Bachelor of Arts degree. See degree plans to determine if foreign language is required in academic department sections or on websites. That requirement may be met as follows: 12 hours (excluding lab hours) of the same foreign language, six hours of which must be in the second year; or three hours of American Sign Language and nine hours of a foreign language (excluding lab hours), six hours of which must be in the second year and in the same foreign language.

## 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
- 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
- No grades of Incomplete on the transcript.
- Successful completion of a minimum of 124 semester credit hours.
- Successful completion of a minimum of 36 advanced hours.
- Successful completion of a major or an approved degree program.
- Successful completion of residency requirements:
  - 30 of the *last* 36 semester hours of course work must be taken at TWU.
  - 25% of all hours required for the major 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.

## Graduation Requirements

- Successful filing of a degree plan with the Registrar's Office twelve months prior to the intended graduation semester.
- Successful filing of a Graduation Application Form with the Registrar's Office 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 139 semester hours, 278 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 31 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.

## **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 001 of HDB or by calling (940) 898-2337.

## McNair Scholars Program

The Ronald E. McNair Postbaccalaureate Achievement program assists students in preparing for doctoral studies through involvement in research and other scholarly activities. McNair participants are from disadvantaged backgrounds and have demonstrated strong academic potential. The McNair office works closely with participants through completion of their undergraduate requirements to encourage their entrance into graduate programs and track their progress to successful completion of advanced degrees. The goal of McNair is to increase the attainment of the Ph.D. by students from underrepresented segments of society.

Services provided by the program include: research opportunities for participants who have completed their sophomore year of college; mentoring; seminars and other scholarly activities designed to prepare students for doctoral studies; summer internships; tutoring; Academic and financial aid counseling. To be eligible for the TWU McNair Scholars Program, students must be members of a group that is underrepresented in graduate education, U.S. citizens, first-generation undergraduates enrolled in a degree-granting program at TWU with 40 hours completed. At least two-thirds of the participants must be low-income, potential first-generation college students. The remaining participants may be from groups that are underrepresented in graduate education. For more information, contact the McNair Office or visit the website at [www.twu.edu/mcnair](http://www.twu.edu/mcnair).

## Internships (Cooperative Education Program)

The Cooperative Education combines classroom study with paid 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 provides paid 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 paid 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 and placement process. 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 may elect alternate or parallel plans. Students participating in the alternating plan work full time for one semester and attend the University as full time students the next semester. In the parallel plan, students work part-time while enrolling 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.

### *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.

### *Cooperative Education Course Description*

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.

## 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. Students may earn up to six (6) semester credit hours which may be applied toward degree programs at the University. 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 information about study abroad opportunities and scholarships, 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 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.

## Lifelong Learning Programs

Through the Office of Lifelong Learning, 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, and nutrition. In addition this office arranges workshops for professionals and special event arrangements. Lifelong Learning also offers non-credit courses in technology; occupational “Command Spanish®” and provides TExES Qualifying tests for prospective teachers. Visit the office or website for more information and program listings: [www.twu.edu/lifelong](http://www.twu.edu/lifelong).

## Distance Learning Courses and Programs

Students may choose from approximately 300 distance learning courses and 10 degree programs from a variety of academic areas. A distance learning course is one in which 50 percent of the instruction is delivered via satellite, compressed video, Internet or other electronic means. All for-credit distance learning courses/programs are subject to the same academic standards as those offered on campus. Most TWU online courses are taught using a web-based software program called Blackboard ([online.twu.edu](http://online.twu.edu)). Students must have access to a computer with Internet capabilities. Some courses require limited on-campus meetings. Contact the Office of Lifelong Learning for more information [www.twuonline.com](http://www.twuonline.com).

## 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 Texas at Dallas or Texas A&M University at College Station. In addition the department offers a joint program with Texas Tech University (Lubbock) that offers a fast track to a masters degree in engineering. For details, contact the Department of Mathematics and Computer Science.



## Air Force and Army ROTC Programs

Aerospace studies courses are offered at the University of North Texas, and military science courses are offered at University of Texas at Arlington. 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 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 courses meet at the University of North Texas or University of Texas at Arlington campuses; the TWU Registrar provides contact 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 Admissions 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/as/va](http://www.twu.edu/as/va)

Computer Science – [www.twu.edu/as/mathcs](http://www.twu.edu/as/mathcs)

English – [www.twu.edu/as/esfl](http://www.twu.edu/as/esfl).

### 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
*ELDR 3033	The Ethically and Culturally Different Child
ELDR 3643	Bilingual and Bicultural Education
*ENG 3153	American Ethnic Literature
ENG 4333	Introduction to the Study of World Literature
*FT 4083	Cultural Perspectives on Personal Appearance
GOVT 3513	Japanese Culture and Politics
HIST 3713	History of Texas
HIST 3763	History of Latin America
MCOM 3003	Race, Gender and the Media
PSY 3833	The Psychology of African Americans
*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	Native Americans in Contemporary Society
*SPCH 3203	Multicultural Communication

\*Multicultural studies.

### 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.

### WOMEN'S STUDIES MINOR

A minor in Women's Studies is offered for students who wish to develop an increased understanding of contemporary women, women's experience, and women's history. To satisfy the requirement for a minor in Women's Studies, a student should select 18 hours from the courses listed below, six of which must be advanced. In addition, some departments from time to time offer special topics courses appropriate for inclusion in the Women's Studies minor with approval of the adviser in the Department of Sociology and Social Work.

WS 1013 Women in Learning Communities  
WS 2013 Women: Images and Perspectives  
WS 2093 Women as Citizens  
WS 2803 Women in Business  
WS 3063 Women in Politics  
WS 3083 Ethics and Feminism  
WS 3091 The Extended Classroom  
WS 3093 Women's Health Issues in the Workplace  
WS 3133 Perspectives on Women's Health  
WS 3213 Women's Roles  
WS 3393 Law for Women  
WS 3733 Psychology of Women  
WS 4013 Texts, Trends and Issues in Women's Studies  
WS 4113 The Family  
WS 4393 American Women and Literature  
WS 4493 Feminist Theory  
WS 4863 The Female Experience in American History

# 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.

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/](http://www.twu.edu/o-sl/)).

## 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 first 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.

1. 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.

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.

2. 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 Dishon-

esty Report Form) of the incident to the Conduct Review Officer, which is usually the Associate Vice President for Student Life. 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 Hearing 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 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, piano practice areas, living rooms, television lounges, laundry rooms, computer rooms, vending machines, room refrigerators, TV cable hookup, caller ID and call waiting. Students can choose a traditional student room with private or community bathrooms. Apartment 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/o-sl/residencelife](http://www.twu.edu/o-sl/residencelife) 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-occupancy room and the residence hall 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 Center in the Garden Room, Chick-Fil-A, Baker's Dozen, and the Underground. A beverage/

snack kiosk is available at the CFO & A. A convenience store is located in the Commons, offering students personal and food products along with late night dining/snack options. A small cafeteria is available at the Houston Center. Denton campus resident students are required to purchase one of several meal plans unless they reside in one of the on-campus 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, University of Housing Office Texas Woman's University, Box 425380, Denton, Texas 76204-5380, or log on to the website at [www.twu.edu/o-sl/foodservice](http://www.twu.edu/o-sl/foodservice).

## 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 fall semester).
- Cooperative Education Program provides experience 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 using the Career Services job hotline accessible 24 hours a day, seven days a week: Denton: 940-898-2941, Dallas: 214-689-6635, Houston: 713-794-2703.
- Resumé Critique and Employment Counseling assists students with planning a job search. For more information see [www.twu.edu/o-cs](http://www.twu.edu/o-cs).

## 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/o-sl/residencelife/clubhouse](http://www.twu.edu/o-sl/residencelife/clubhouse).



## STUDENT ACTIVITIES

### New Student Orientation

New Student Orientation at Texas Woman's University consists of a three-step process. Step one, Academic Planning and Registration is offered throughout the summer. These sessions are designed to introduce new students to the unique educational experience that TWU has to offer. Students meet with faculty and staff to discuss academic programs and services.

Pioneer Camp, the second step, is scheduled during the week prior to the beginning of class and is required for first year students. During this week, students explore the spirit of TWU and will participate in various educational and social programs.

Step three, University 1011, is a course designed to equip students with the tools and skills to make the first year of college successful. In this course, students identify their personal learning style and will make adjustments to succeed to college. For more information, visit [www.twu.edu/o-sl/orientation](http://www.twu.edu/o-sl/orientation).

### Student Center Opportunities

The Student Center, located centrally on the Denton campus, provides students, faculty, and staff dining facilities, U.S. Post Office, game room, cyber and computer lounges, meeting rooms, TV room, 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 Center. Lounge and study space are available on the Dallas and Houston campuses. For information, visit the website: [www.twu.edu/o-sl/stucenter](http://www.twu.edu/o-sl/stucenter) 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](http://www.twu.edu/o-sl/csd).

### Student Government

On the Denton campus and at the Dallas and Houston Centers, all registered students are members of their respective United Student Association and 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.

## **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. 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/](http://www.twu.edu/o-sl/csd/).

## **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**

Texas Woman's University teams have won state, regional and national championships; individual athletes have set national records, achieved All-American honors, won medals in the Olympics, and participated on Pan American and national teams representing the United States. As members of the NCAA and the Lone Star Conference, student-athletes are provided with the opportunity to compete in an extensive schedule of home and away events as well as invitational, state, regional, and national tournaments. Sports available are basketball, gymnastics, softball, soccer, and volleyball.

For additional information concerning TWU athletics programs, see the web: [www.twuathletics.com](http://www.twuathletics.com) or contact the Director, Intercollegiate Athletics, Texas Woman's University, Box 425349 Denton, Texas 76204-5349 or call 940/898-2378.

## **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, and 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 at all locations. 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 web site. 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, bi-polar disorder, and post-traumatic stress. Students may also view our most popular outreach presentations through our web site: [www.twu.edu/o-sl/counseling](http://www.twu.edu/o-sl/counseling).

The Counseling Center also administers and interprets standardized career and psychological inventories that may help a student with personal, education, or career goals. There is a small charge for the cost of purchasing and scoring these inventories.

### **Locations**

Denton – West Jones Hall – 940-898-3801

Dallas Parkland – DED 120 – 214-689-6655

Dallas Presbyterian – DPH 16 – 214-706-2416

Houston – 3rd Floor SRH – 713-794-2059

## **Student Health Services**

The TWU Student Health Services (SHS) is centrally located in the heart of the Denton campus in the lower level of the southeast corner of Hubbard Hall (305 Administration Drive). 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/o-sl/shs](http://www.twu.edu/o-sl/shs).

## **Health Insurance of International Students**

Government regulations 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, unless proof of comparable coverage is furnished. For more information or to obtain an insurance fee waiver form – check out the website at: [www.twu.edu/o-sl/shs](http://www.twu.edu/o-sl/shs).

## **TWU Fitness and Campus Recreation**

TWU Fitness and Campus Recreation serves the University and the Denton community by providing access to a full service fitness facility, indoor swimming pool, indoor track, and racquetball courts. Fitness and Campus Recreation provides a number of services to students, faculty/staff, and community mem-

bers including: complimentary fitness assessments and exercise prescriptions, personal training, nutritional counseling, intramurals, sports clinics, and open recreation. TWU students have a free membership to Fitness and Campus Recreation with a current ID card and faculty/staff may become members at a greatly reduced rate. For more information call 898-2900 or visit the Fitness and Campus Recreation website at [www.twu.edu/o-sl/wellness/](http://www.twu.edu/o-sl/wellness/).

## **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 Parkland campus for individuals who have had strokes.

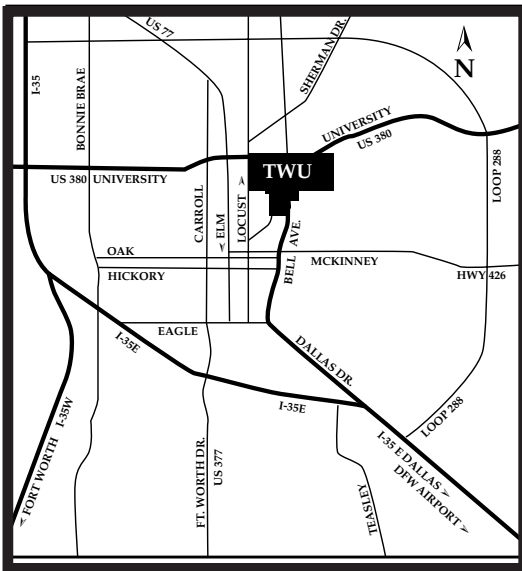
The Speech-Language-Hearing Clinic serves as a laboratory for students in the Department of Communication Sciences and Disorders. Coupled with community practicum sites, it serves to enrich students' learning opportunities in the area of communication disorders. Information about the Speech-Language-Hearing 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 (817) 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.

# Campus Maps

## Directions to Denton



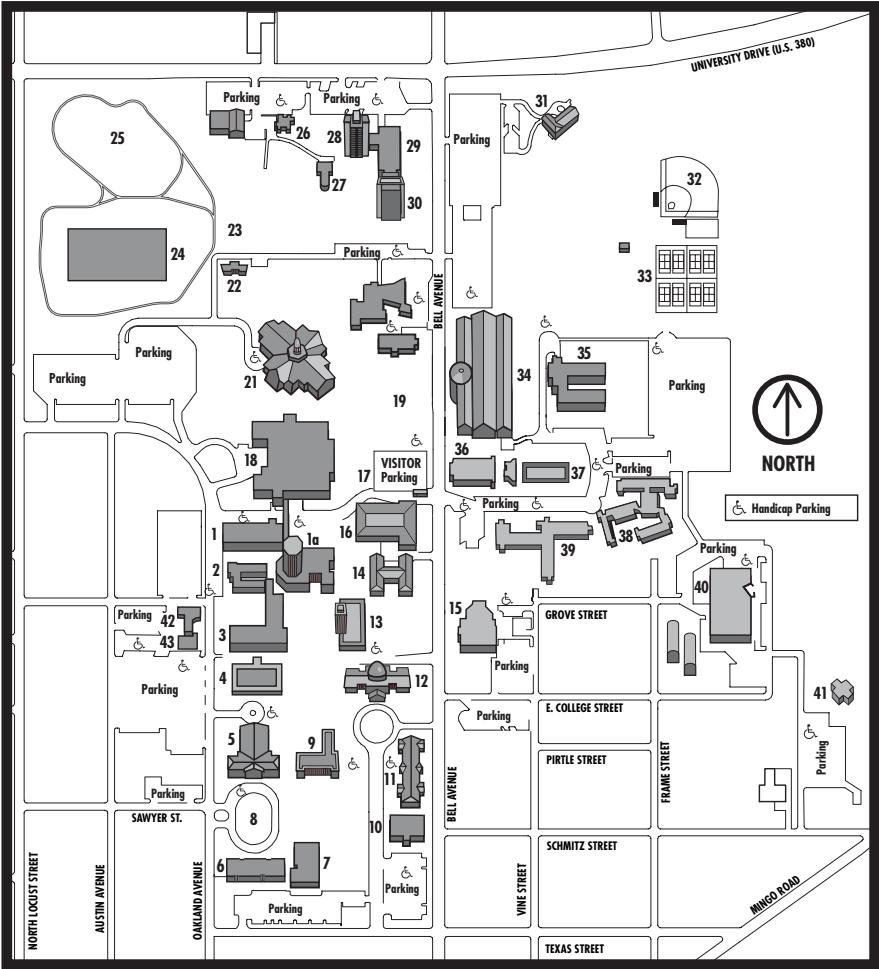
**From DALLAS:** Take Interstate I-35 to Denton, continue on I-35E North, past where I-35E and I-35W intersect, and then take Exit #469 (US 380/University Drive). Turn right on University Drive. Follow University Drive to Bell Avenue, which runs through the TWU campus. Turn right on Bell Avenue. Turn right on Administration Drive and stop at the information booth to get parking assistance and directions to the admissions office.

**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)
- 13 **Arts and Sciences, College of**  
(CFO 1201)
- 34 **Athletics** (PH 220)
- 15 **Bilingual/ESL Program**  
(MCL 305)
- 4 **Biology** (GRB 230) *Courses in  
Bacteriology, Biology, Botany,  
Zoology*
- 13 **Business Courses in School of  
Management** (CFO 405)
- 9 **Chemistry and Physics** (SCI 105)  
*Courses in Chemistry, Physics  
and Science*
- 15 **Communication Sciences and  
Disorders** (MCL 708)
- 36 **Dance** (DGL 206)
- 12 **Dental Hygiene** (OMB 220)
- 5 **Drama** (MUS 200)
- 13 **Economics Courses in School of  
Management** (CFO 405)
- 14 **Education, College of Professional**  
(SH 202)
- 14 **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**  
(CFO 1210)
- 13 **Health Studies** (CFO 1007)
- 13 **History and Government**  
(CFO 605)
- 34 **Kinesiology** (PH 208)
- 14 **Library and Information Studies**  
(SH 404)
- 13 **Management, School of**  
(CFO 405) *Courses in Business,  
Economics*
- 14 **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 615)
- 14 **Professional Education, College of**  
(SH 202)
- 13 **Physical Therapy, School of**  
(CFO 1210)
- 13 **Psychology and Philosophy**  
(CFO 702)
- 15 **Reading** (MCL 907)
- 9 **Science Courses in Chemistry &  
Physics Dept.**
- 13 **Sociology and Social Work**  
(CFO 305)
- 13 **Spanish Courses in Dept. of  
English, Speech and Foreign  
Languages**
- 14 **Teacher Education** (SH 202)
- 11 **Women's Studies** (HDB 307)
- 15 **Computer Lab** (MCL 2)
- 21 **Computer Lab** (BHL 1)

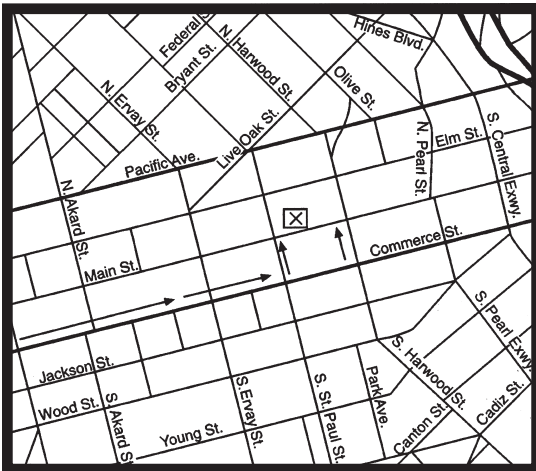
### ACADEMIC BUILDINGS

- |     |    |                                      |
|-----|----|--------------------------------------|
| ACT | 1A | Administration Confer-<br>ence Tower |
| ADM | 1  | Admissions and Registra-<br>tion     |
| ART | 6  | Art Bldg.                            |
| ASB | 3  | Arts and Sciences Bldg.              |
| CFO | 13 | Classroom Faculty Office<br>Bldg.    |
| DGL | 36 | Dance-Gymnastics<br>Laboratory Bldg. |
| GRB | 4  | Graduate Research Bldg.              |
| HDB | 11 | Human Development<br>Bldg.           |
| HH  | 18 | Hubbard Hall                         |
| BHL | 21 | Blagg-Huey Library                   |
| MCL | 15 | Multipurpose Classroom<br>Lab. Bldg. |
| MUS | 5  | Music Bldg.                          |
| OMB | 12 | Old Main Bldg.                       |
| PB  | 2  | Patio Bldg.                          |
| PH  | 34 | Pioneer Hall                         |

SC	16	Student Center
SCI	9	Science Bldg.
SH	14	Stoddard Hall
ULB	10	Undergraduate Laboratory Bldg.

28 Guinn Hall  
39 Jones Hall  
35 Mary Hufford Hall  
38 Reagan Houston Hall  
30 Stark Hall  
24 The Lowry Woods  
Community

AH	26	Alumni House
	19	Amphitheater
	16	Bookstore (SC 1)
	7	Bralley Building
HR	22	Greenhouse
	42	Human Resources Bldg.
	27	Little Chapel-in-the-Woods
	2	Patio Building
	8	Pioneer Woman Statue
	14	Stoddard Hall
	23	University Gardens
	31	University House
	39	Wellness Center (JH 301)
	25	Walking Path
32	Softball Field	
33	Tennis Courts	

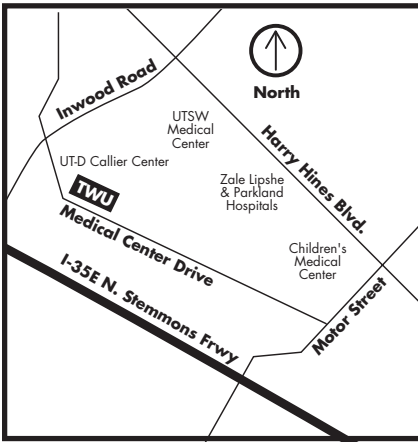


From Denton, take I-35E south to Dallas. Take the Commerce Street exit from I-35E. Continue on Commerce Street, traveling east through most of the downtown area. Turn left (north) on either St. Paul or Harwood Street. The UCD is on the north side of Main St. between St. Paul and Harwood. Parking lots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



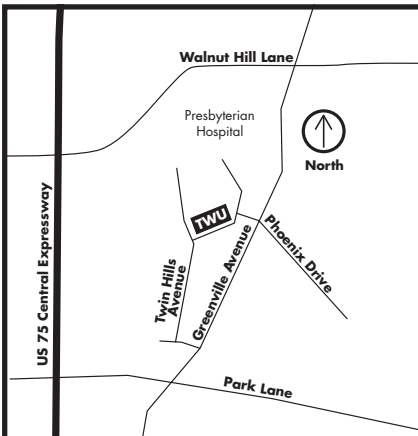
# Dallas Center

## Parkland Campus



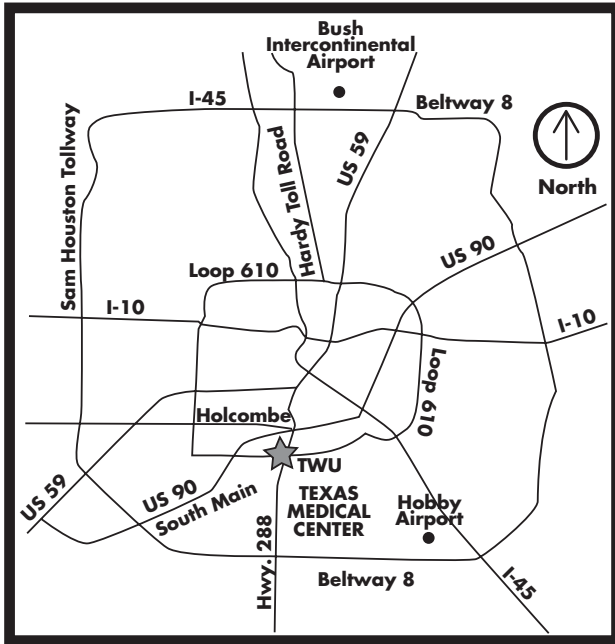
From **STEMMONS FREEWAY (I-35E)**, exit at Inwood Road and go north-east to the first traffic light (Medical Center Drive) and turn right. The Parkland campus will be the second driveway on the left, just before the flagpole. Bear to the right after you pass the seven story building. Visitor and handicapped parking is located in front of the two story building on the right.

## Presbyterian Campus



From **CENTRAL EXPRESSWAY (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 Center



## DIRECTIONS

**From 610 E or W** - Exit Fannin, travel North to John Freeman Blvd., right on Bertner. University is located at the corner of John Freeman and Bertner.

**From Hwy 59** - Take 288 to MacGregor, exit MacGregor going West into the Medical Center to Moursund Avenue, right to Bertner.

**From Hobby Airport** - I-45 North to 610 West; follow above directions from 610.

**From Intercontinental Airport** - Hwy 59 South to Hwy 288 South and follow directions above from Hwy 288.

**From Hwy 290 South** to 610 South to 610 East and follow directions above from 610 East.

**From I-10 East** to 45 South to 59 South to 288 South and follow directions above from 288 South.

**From I-10 West** to 59 South to 288 South to MacGregor. Turn right on MacGregor and follow directions above from MacGregor.

**Note:** Summer of 2006 the Houston Campus will be relocated at: 6700 Fannin  
Houston, TX 77030

# The College of Arts and Sciences

*Dean: Ann Q. Staton, Ph.D., Professor*

*Interim Associate Dean: Don E. Edwards, Ph.D., Professor*

*Location: CFO 1201*

*Telephone: (940) 898-3326*

*Telefax: (940) 898-3366*

*E-Mail: ASTATON@twu.edu*

*E-Mail: DEDWARDS@mail.twu.edu*

*www.twu.edu/as/college/*

## MISSION STATEMENT

All students in the College of Arts and Sciences are challenged to achieve their full academic, professional and personal potential. Our graduates are prepared for a lifetime of learning, service and responsible citizenship by virtue of the breadth and depth of their educational experiences and grounding in the Arts, Humanities, Social Sciences and Sciences.

The College of Arts and Sciences promotes an understanding of humanity and the universe by fostering a community of student and faculty scholars. The College is committed to the enduring values of a liberal education as a foundation for a lifetime of learning, service, and responsible citizenship. 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 be prepared fully to meet the challenges of an ever-changing 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 environment (The overwhelming majority of our courses are taught by full-time faculty and the small size of our classes encourages student and faculty interactions. The ratio of faculty to students is approximately one faculty member per 17 students);
- 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 (Several of our excellent programs have the highest accreditation and national recognition among the rankings of top ten programs);
- Begin the lifelong process of personal enrichment through learning and service.

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; and Visual Arts. The Women's Studies Program; and the School of Management (Business/Economics, Fashion/Textiles); and the School of the Arts (Dance, Drama, Music, Visual Arts) are also part of the College.

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. We also offer several interdisciplinary minors such as a Digital Media minor. General degree requirements of the University (Core Curriculum) are found in the earlier pages of this catalog.

Please visit our home page for more information ([www.twu.edu/as/college/](http://www.twu.edu/as/college/)).

# Bachelor of General Studies Program

*Director: Don Edwards, Ph.D.,*

*Advisor: Sharyn Opbroek, M.S.*

*Location: CFO 1201*

*Telephone: (940) 898 -3326*

*Telefax: (940) 898 - 3366*

*E-Mail: dedwards@mail.twu.edu*

*E-Mail: sobbroek@mail.twu.edu*

*[www.twu.edu/genstudies/default.htm](http://www.twu.edu/genstudies/default.htm)*

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 124 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 124 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
- English
- Fine Arts
- History/Government
- Mathematics/Computer Science
- Sociology

Coursework required to complete most of the concentration areas is available completely online. More detailed information about the program, including course listing and a rotating schedule of online courses, is available on the program's website at [www.twu.edu/genstudies/default.htm](http://www.twu.edu/genstudies/default.htm).

# School of the Arts

*Director: John L. Weinkein, M.F.A., Professor*

*Location: Art 107A*

*Telephone: (940) 898-2530*

*Telefax: (940) 898-2496*

*E-Mail: [jweinkein@twu.edu](mailto:jweinkein@twu.edu)*

*[www.twu.edu/soa/](http://www.twu.edu/soa/)*

*Faculty: **Professors:** L. Blanton, T. Brown, J. Calabrese, N. Cohen, J. Flohr, S. Grant, N. Hadsell, P. Hanstein, M. Hoyle, L. Stuckenbruck, J. Wall, G. Washmon, J. Weinkein. **Associate Professors:** S. Bengé, J. Chenevert, G. Keeton, C. Parsons-O'Keefe, M. Williford-Shade, P. Youngblood. **Assistant Professors:** S. Gamblin, D. Gregory, T. Medlin, R. Shuster, S. Stewart, T. Synar. **Instructor:** D. Bieloh. **Lecturer:** J. Pinson*

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 share.

Performing and exhibiting facilities include the 1150-seat Margo Jones Performance Hall; Redbud Theatre; Eberly Recital Hall; studio performance spaces in Dance building and 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/as/va,etc.\\_](http://www.twu.edu/as/va,etc._))

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

## DEPARTMENT OF DANCE

*Chair: Penelope Hanstein, Ph.D. Professor*

*Location: DGL 206*

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*Telefax: (940) 898-2098*

*E-Mail: phanstein@TWU.EDU.*

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*Faculty: Professors P. Hanstein; Associate Professors G. Keeton, M. Williford-Shade; Assistant Professor S. Gamblin; Dance Musicians K. Fleming, S. Myatt.*

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.

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 Laban Movement Analysis 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. 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. Due to the heavy demands that performance places on students, it is recommended that only those students who maintain a cumulative 2.0 GPA participate in concerts and register for performance courses.

Detailed information about the undergraduate dance major program may be found in the “Undergraduate Dance Student and Advisor Handbook” available in the Department of Dance office.

### **Dance Courses for Non-Dance Major Students**

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

#### Visual and Performing Arts

- 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 Multicultural Course)
- DNCE 3393 Dance History
- DNCE 3373 World of the Imagination in Art, Dance, Film
- DNCE 3383 History of Women in Dance  
(Cross-listed with WS 3383-Women’s Studies Course)
- DNCE 4383 Performing Arts in American Popular Culture

#### Health and Fitness

- DNCE 1081 Jazz Dance Aerobics
- DNCE 1091 Pilates Physical Conditioning/Body Work

Dance major courses, including upper-level ballet and modern dance courses, are open to non-major students. Approval of the instructor or Department Chair is required. Non-major students interested in performing in dance concerts must register for DNCE 3101 Dance Performance and be concurrently enrolled in a dance technique course.

### **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. Undergraduate auditions are held in late February. Open class week for prospective dance majors is held in October each fall semester. Contact Department of Dance office for audition dates and specific information. Also see the Dance Department web page at [www.twu.edu/soa/dance](http://www.twu.edu/soa/dance).

### **Undergraduate Degrees**

- B.A. in Dance
- B.A. in Dance with Teacher Certification



## **The Bachelor of Arts Degree in Dance: Dance Studies**

### **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. Total hours required for B.A. in Dance: 124 credit hours.

### **Required Dance Major Courses**

#### **Dance Technique**

14 Credits of technique are required and Modern III and Ballet III-level competency (DNCE 3151 & 3161 and 3111 & 3121). 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 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 Choreography/Performance

### **Choreography**

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

### **Performance**

DNCE 3101	Dance Performance (6 credits required)
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### **Dance electives 5 credit hours**

### **Related Courses**

ZOOL 2043 /2041	Human Anatomy
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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**

### **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 from the Department of Dance Office. Total hours required for B.A. in Dance with Teacher Certification: 133 credit hours.

### *Dance Undergraduate Courses*

**DNCE 1011. Introduction to Ballet.** (DANC 1141) Introduction to classical ballet 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 1021. Ballroom/Popular Club Dance.** (DANC 1128) 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) 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) 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) 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.

**DNCE 1111. Elementary Ballet I.** (DANC 214) 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 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.** 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.** 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.** 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. (Satisfies Fine Arts requirement)

**DNCE 3101. Dance Performance.** (DANC 2112) 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.** Theories and techniques of world dance forms and their social, cultural, and political significance. Two lecture and two studio hours a week. 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.

**DNCE 3191. Intermediate/Advanced Jazz.** (DANC 2147) Intermediate/Advance Jazz technique, jazz-based improvisation and repertoire. 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 3183. Dance Notation.** Introduction to the major dance notation systems, emphasizing Labanotation. Three lecture hours a week. Credit: Three 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 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 3383. History of Women in Dance.** History of women dance artists, performers and choreographers, and their contributions related to and contextualized by important events in the history of women, women's roles as art makers, and explored from a feminist perspective. Three lecture hours a week. Credit: Three hours. (Satisfies Visual and Performing Arts Requirement and Women's Studies Requirement).

**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.

**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. Three lecture hours a week. Credit: Three hours. (Satisfies Visual and Performing Arts requirement.)

**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.

**DNCE 4951, 4953, 4956. Cooperative Education.**

### *Dance Graduate Courses*

DNCE 5023. Methods of Research in Dance

DNCE 5102. Dance Performance

DNCE 5162. Laban Movement Analysis: Effort/Shape

DNCE 5172. Space Harmony/Choreutics

DNCE 5183. Intermediate Labanotation

DNCE 5211. Workshop in Dance

DNCE 5213. History of Dance I

DNCE 5222. Workshop in Dance

DNCE 5223. History of Dance II

DNCE 5233. Workshop in Dance

DNCE 5243. Pedagogical Foundations in Dance

DNCE 5253. The Choreographic Process: Making, Perceiving, Educating

DNCE 5273. Adapted Dance

DNCE 5281. Styles of Ballet I

DNCE 5291. Styles of Ballet II

DNCE 5301. Studies in Modern Dance I

DNCE 5311. Studies in Modern Dance II

DNCE 5323. Philosophy of Dance

DNCE 5333. Curriculum Inquiry in Dance and the Related Arts

DNCE 5901. Special Topics

DNCE 5903. Special Topics

DNCE 5911. Individual Study

DNCE 5913. Individual Study

DNCE 5951, 5953, 5956. Cooperative Education

DNCE 5973. Professional Paper



DNCE 5983. Thesis

DNCE 5993. Thesis

DNCE 6023. Critical Analysis of Professional Literature

DNCE 6113. Seminar in Dance

DNCE 6911. Individual Study

DNCE 6913. Individual Study

DNCE 6951, 6953, 6956. Cooperative Education

DNCE 6983. Dissertation

DNCE 6993. Dissertation

## **DRAMA PROGRAM**

*Program Director: Sharon Benge, M.F.A., Associate Professor*

*Location: MB 200*

*Telephone: (940) 898-2518*

*Telefax: (940) 898-2655*

*E-Mail: sbenge@TWU.EDU*

*www.twu.edu/as/pa/drama*

*Faculty: Professors M.L. Hoyle; Associate Professor S. Benge; Assistant Professors T. Medlin, Michael Scudday; Technical Director J. Dawson.*

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**

The University-wide general requirements for the Bachelor of Arts degree are listed in the Academic Information section of this catalog. Total hours for a B.A. in Drama: 124 credit hours.

**Drama Core curriculum required of all majors - 35 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 (three hours) (fall only)
- DRAM 4903. Special Topics: Summer Stock Company (six hours)

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

**Drama elective possibilities - 10 hours to be selected from the following:**

- 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.

### **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 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**

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 complete the Bachelor of Arts degree in Drama before seeking a post-baccalaureate 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

\*Student must enroll concurrently in DRAM 1312 or DRAM 4412.

- 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 4412. Rehearsal and Production II
- 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 3001. Integrating Technology
- EDUC 3003. Learning Theory and Development
- EDUC 4001. Integrating Technology
- EDUC 4004. Design and Implementing Assess. and Instr.
- EDUC 4102. Class Environment and Mgmt.
- EDUC 4233. Student Teaching - Theater Arts
- EDUC 4236. Student Teaching - Theater Arts
- Student Teaching 6 hours

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) 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.

\*Student must enroll concurrently in DRAM 1312 or DRAM 4412.

**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 a beginning orientation for drama majors and as an introduction for the non-major. Satisfies the fine arts requirement. 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.

**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 and one-half 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 and one-half 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.

**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. Two and one-half 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 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; 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.



*Drama Graduate Courses*

- DRAM 5403. Problems in Production
- DRAM 5433. Contemporary Theatre
- DRAM 5473. Dramatic Criticism and Play Analysis
- DRAM 5483. Theatre History I
- DRAM 5493. Theatre History II
- DRAM 5503. Styles of Acting
- DRAM 5513. Theatre Management
- DRAM 5521. Theatre in Performance
- DRAM 5533. Advanced Theatrical Design
- DRAM 5543. Speech for the Stage
- DRAM 5901. Special Topics
- DRAM 5903. Special Topics
- DRAM 5911. Individual Study
- DRAM 5913. Individual Study
- DRAM 5973. Professional Paper

## MUSIC PROGRAM

*Chair: James H. Chenevert, Ph.D., Associate Professor*

*Location: MUS 114*

*Telephone: (940) 898-2500*

*Telefax: (940) 898-2494*

*E-Mail: jchenevert@TWU.EDU*

*www.twu.edu/soa/music*

*Faculty: Professors L. Blanton, T. Brown, N. Cohen, J. Flohr, N. Hadsell, R. Rodean, J. Wall; Associate Professors J. Chenevert, P. Youngblood; Lecturer J. Pinson; Assistant Professors R. Shuster, S. Stewart.*

The School of the Arts offers programs leading to the Bachelor of Arts, the Bachelor of Science, and the Master of Arts degrees in music. An undergraduate program may be selected in music therapy, music performance (in voice, piano, organ, or flute), 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 division 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 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 on voice, piano, guitar, organ, and all orchestral and band instruments.

One 30-minute private lesson a week requires one hour of daily practice. Two 30-minute private lessons a week require two hours of daily practice.

Non-music majors may enroll for one credit hour of applied music as approved by the department. Note: Enrollment restrictions may be necessary dependent on instructor availability.

Pre-enrollment in studio lessons does not guarantee studio placement. These assignments will be made during the first week of class.

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. 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 15 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

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 Ensemble, 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. See the Music Major Handbook for further details.

### **Performance Examinations**

All students taking required applied music lessons as degree candidates in music will take a final jury exam each semester. Students who have given a full recital during the semester or performed on the Honors Recital are not required to take the exam.

### **Recital Attendance Requirement**

During each semester of study, with the exception of the last semester, undergraduate music majors are required to attend a minimum of ten 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 (Teacher Certification)**

All-level Teaching Certificate in Music: 128 total credit hours

### **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. Students should contact the department chair for details.

### **Music Courses (in addition to music core, p.135)**

MU 1021, 1031, 2061, 2081. Keyboard Musicianship I, II, III, IV

MU 3432. Secondary Music I

MU 3542. Conducting I

MU 3552. Conducting II

MU 3632. Essentials of Music

MU 3732. Secondary Music II

MU 3832. Elementary Music

MU 4512. Instrumental Arranging

MU 4901. Music Education Capstone/Proficiency

Eight hours selected from applied areas (not major instrument)— brass, percussion, woodwinds, strings, diction, vocal pedagogy.

Applied Music (7 hours)

Ensemble (7 hours)

### **Other Courses**

EDUC 2003. Legal, Ethical, Prof. Role and Resp.

EDUC 3001. Integrating Technology

EDUC 3003. Learning Theory and Development

EDUC 4001. Integrating Technology

EDUC 4004. Design and Implementing Assess. and Instr.

EDUC 4102. Class Environ. and Mgmt.

EDUC 4316. Student Teaching

## **Bachelor of Arts in Music (Performance)**

### **General Description**

The University-wide general requirements for the baccalaureate degree are listed earlier in this catalog. Requires 124 total credit hours.

### **Music courses common to music performance in voice, piano, organ, or flute) (in addition to music core, p. 135)**

MU 3542 Conducting

MU 4522 Form & Analysis

MU 4723 17th & 18th Century Counterpoint

MU 4903 Literature or Diction of the primary instrument

### **Additional Music Courses specific to music performance - voice**

MU 1021, 1031, 2061, 2081 Keyboard Musicianship I, I, III, IV

MU 3493 Vocal Pedagogy

Applied Music (20 hrs.)

Music Ensembles (10 hrs.)

Music Electives (10)

### **Additional Music Courses specific to music performance - piano, organ**

MU 4903 Pedagogy

Applied Music (20 hrs.)

Music Ensembles (10 hrs.)

Music Electives (11 hrs.)

### **Additional Music Courses specific to music performance - flute**

MU 1021, 1031, 2061, 2081 Keyboard Musicianship I, I, III, IV

MU 4903 Pedagogy

MU 3552 Conducting II

MU 4512 Instrumental Arranging

Applied Music (20 hrs.)

Music Ensembles (10 hrs.)

Music Electives (6 hrs.)

## **Bachelor of Arts in Music**

124 total credit hours

### **Music Courses (in addition to music core, p. 135)**

MU 1021, 1031, 2061, 2081 Keyboard Musicianship I, II, III, IV

MU 3542. Conducting

Music Ensemble (6 credits)

Applied Music (12 hours)

### **Other Courses**

Foreign Language (6 hours)

**Electives** (26 hours)

## **Bachelor of Science in Music Therapy**

### **General Description**

The Bachelor of Science Degree with a major in music therapy requires 138 semester hours with at least 4 years of study, including at least one summer term, followed by an approved internship.

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 one approved DNCE course, 12 hours in psychology, and 3 hours in special education. They also take 3 hours in human biology as part of TWU's core curriculum.

### **Music Courses (in addition to the music core, p. 135)**

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

\*Usually taken in junior year, preceding MU 4513, 4523.

- 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\*\*

### **Courses in Psychology/Special Education**

- ECSE 4203. Learners with Exceptionalities  
 PSY 1013. Introduction to General Psychology  
 PSY 1603. Developmental Psychology  
 PSY 3303. Applied Statistics  
 PSY 3513. Abnormal Psychology

DNCE 1021, 1051, 1071, or 2131.

*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 an overall grade-point average of 2.5 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.

Graduate students wishing to work toward certification must complete the equivalency program (total course work being equivalent to the B.S. in Music therapy degree), 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 in music therapy.

Testing for drugs, specific immunizations in addition to those required by TWU, proof of personal medical insurance, and/or passing a criminal back-

\*\*Follows completion of all academic courses.

ground 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**

20 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

6 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. The following MU courses are available:*

**MU 2002. Woodwinds**— flute, oboe, clarinet bassoon, saxophone

**MU 2012. Organ**

**MU 2022. Brass**— trumpet, baritone, trombone, French horn, tuba

**MU 2032. Piano**

**MU 2042. Strings**— violin, viola, cello, string bass

**MU 2092. Voice**

**MU 2392. Percussion**

**MU 2432. Guitar**

Beginning and Intermediate private music study. Prerequisite: Permission of instructor. 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



**MU 4032. Piano**

**MU 4042. Strings**— violin, viola, cello, string bass

**MU 4092. Voice**

**MU 4392. Percussion**

**MU 4432. Guitar**

Advanced private music study. Prerequisite: Permission of instructor. One hour a week. May be repeated for credit. Credit: Two hours.

Non-music majors register, when permission is granted, for 1-credit lessons, the course number for which ends with a “1” instead of “2” (for example, MU1031 Piano.)

**MU 1021. (MUSI 1181) Keyboard Musicianship I.** Group instruction in beginning piano. 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 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 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 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 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.

**MU 3001. Brass Techniques.** Applied study of trumpet, trombone, horn and tuba. Two lab hours a week. Credit: One hour.

**\*MU 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 arts, dance, drama and music as tools to promote learning. Fulfills requirement for teacher certification. Three lecture hours a week. Credit: Three hours.

**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 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 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 3493. 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 two laboratory hours a week. Credit: Three 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 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. 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 3552. Conducting II.** A continuation of materials covered in MU 3542 with emphasis on score reading, interpretation, musical style analysis, and rehearsal planning. Special attention is given to the organization and structuring of instrumental and vocal ensembles at all levels of instruction. Prerequisite: MU 3542. One lecture hour and two laboratory hours a week. Credit: Two hours.

**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 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 3732. Secondary Music II.** Course will continue exploring secondary music teaching, specifically focusing on choral and instrumental issues. Prerequisite: MU 3432. Two lecture hours a week. Credit: Two 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 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. May be repeated for credit. Credit: Three 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 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 4901. Selected Topics.** An organized class for the study of particular area or subject not offered in another scheduled course. Prerequisite: Permission of instructor. One lecture hour a week. Credit: One hour.

**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.

### *Music Graduate Courses*

- MU 5503. Vocal Literature for Young Singers
- MU 5533. Philosophies and Theories of Music Therapy
- MU 5541. Instrumental Ensemble
- MU 5543. Multicultural Perspectives in Music Therapy
- MU 5551. Concert Choir
- MU 5553. Seminar in Music I
- MU 5563. Seminar in Music II
- MU 5571. Jazz Lab Ensemble
- MU 5573. Bibliography in Music
- MU 5581. Chamber Music
- MU 5591. Vocal Ensemble
- MU 5643. Research on Music and Behavior
- MU 5653. Seminar in Music Education I
- MU 5663. Seminar in Music Education II
- MU 5702. Practicum in Music Theory
- MU 5723. Music in Early Childhood
- MU 5753. Music Pedagogy I (Piano or Voice)
- MU 5763. Music Pedagogy II (Piano or Voice)
- MU 5803. Graduate Recital
- MU 5901. Special Topics

MU 5903. Special Topics  
MU 5911. Individual Study  
MU 5913. Individual Study  
MU 5933. Styles in Music  
MU 5973. Professional Paper  
MU 5983. Thesis  
MU 5993. Thesis

# Department of Visual Arts

*Chair: John L. Weinkein, M.F.A., Professor*

*Location: Art 107A*

*Telephone: (940) 898-2530*

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*E-Mail: [jweinkein@twu.edu](mailto:jweinkein@twu.edu)*

*[www.twu.edu/as/va](http://www.twu.edu/as/va)*

*Faculty: Professors J. Calabrese, S. Grant, C. Stuckenbruck, G. Washmon, J. Weinkein; Associate Professor C. Parsons-O'Keefe; Assistant Professors D. Gregory, T. Synar; Instructor D. Bieloh.*

In support of the Texas Woman's University as it strives to fulfill its mission, the Department of Visual Arts will educate and empower our students, especially ensuring opportunities for women and minorities, to become leaders in our society through excellence in the visual arts.

We will accomplish this vision through rigorously maintaining a collaborative, cooperative, and supportive community, guided by a committed and professionally active faculty, who are respectful of individual differences, and uphold the importance of the following fundamentals of visual arts education:

A continuous commitment to creative and aesthetic inquiry;

A balance of critical theory and practice;

A need for relevant context and purpose for student work through understanding of historical and contemporary trends; and

The development of professional responsibility and personal voice.

For more information, please visit the Department home page.

## **Degree Requirements**

In addition to the general university requirements, the Department of Visual Arts requires the following matrix program:

Design:      ART 1203. Basic Design  
                 ART 1213. Color and Design

Drawing:     ART 1303. Basic Drawing  
                 ART 1313. Basic Drawing  
                 ART 2303. Figure Drawing (six hours)

Computer Art: 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 or  
Photography: ART 3823, 3833 or 3843. Ceramics or ART 1603. Introduction  
to Photography
- Painting: ART 1503. Introduction to Painting  
ART 3713. Watercolor
- Sculpture: ART 3753. Sculpture  
  
ART 4073 Contemporary Issues in Art

### **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.

B.A. in Art, with a concentration in Visual Arts (with certification, All-Level Art)

### **General Description of Each Major**

B.A. or B.F.A Degree in Art

### **Art Courses Required**

- ART 1203. Basic Design  
ART 1213. Color and Design  
ART 1303. Basic Drawing  
ART 1313. Basic Drawing  
ART 1503. Introduction to Painting  
ART 2303. Figure Drawing (six hours)  
ART 2503. History of Art - Ancient and Primitive or ART 2513  
History of Art - Medieval  
ART 2223. Introduction to Computer Based Art  
ART 3343. Women in the Visual Arts  
ART 3503. History of Art - Renaissance  
ART 3513. History of Art - 19th Century  
ART 3713. Watercolor  
ART 3753. Sculpture  
ART 3823, 3833 or 3843. Ceramics or ART 1603. Introduction to Photography  
ART 4073. Contemporary Issues in Art  
ART 4523. History of Art - 20th Century

Twelve to twenty-seven advanced hours in art selected within an art concentration.

### **Additional Required Courses**

For the B.F.A. degree in Graphic Design or in Photography with Business the student must take ART 4953 Cooperative Education for six hours.

For the B.A. degree in Visual Art (with certification, all-level art) the student must complete course work in the College of Professional Education.

## **Bachelor of Arts Degree Program with a concentration in: Clay, History of Art, Painting, Photography, or Sculpture.**

### **University Core Curriculum Requirement (42 hrs.)**

#### **Art Core Requirements (45 hrs.)**

ART 1203. Basic Design

ART 1213. Color and Design

ART 1303. Basic Drawing

ART 1313. Basic Drawing

ART 1503. Introduction to Painting

ART 2223. Introduction to Computer Based Art

ART 2303. Figure Drawing (6 hrs.)

ART 2503 or 2513. History of Art - Ancient and Primitive or History of Art Medieval.

ART 3503. History of Art - Renaissance

ART 3513. History of Art - 19th Century

ART 3713. Watercolor

ART 3753. Sculpture

ART 3823, 3833 or 3843. Ceramics or ART 1603. Introduction to Photography

ART 4523. History of Art - 20th Century

#### **Concentration Requirements (27 hrs.)**

Art Concentration (15 hrs.)

Art Concentration Electives (12 hrs.)\*

#### **Additional Requirements (12 hrs.)**

Art, Dance, Drama, or Music Electives (12 hrs.)

Must include ART 3343 and ART 4073

### **Total Hours Required: 126**

\* Must be 2000, 3000 or 4000 level courses.

\* Fine Art or Visual Arts core requirements may not be used for major requirements.

## **Bachelor of Fine Arts Degree Program with a concentration in: Clay, Painting, Photography, or Sculpture.**

### **University Core Curriculum Requirement (42 hrs.)**

#### **Art Core Requirements (51 hrs.)**

ART 1203. Basic Design  
ART 1213. Color and Design  
ART 1303. Basic Drawing  
ART 1313. Basic Drawing  
ART 1503. Introduction to Painting  
ART 2223. Introduction to Computer Based Art  
ART 2303. Figure Drawing (6 hrs.)  
ART 2503 or 2513. History of Art - Ancient and Primitive or History of Art Medieval.  
ART 3343. Women in the Visual Arts  
ART 3503. History of Art - Renaissance  
ART 3513. History of Art - 19th Century  
ART 3713. Watercolor  
ART 3753. Sculpture  
ART 3823 or 3833 or 3843. Ceramics or 1603. Introduction to Photography  
ART 4073. Contemporary Issues in Art  
ART 4523. History of Art - 20th Century  
Art Concentration (27 hrs.)\*  
ART (Exhibition) (3 hrs.)  
Art Elective (21 hrs.)

#### **Concentration Requirements (39 hrs.)**

Art Concentration (27 hrs.)\*  
Art 4993. Exhibition (3 hrs.)  
Art Concentration Electives (9 hrs.)\*

#### **Additional Requirements (12 hrs.)**

Art, Dance, Drama, or Music Electives (12 hrs.)  
Must include Art 3343 and Art 4073.

\*Must be 2000, 3000, or 4000 level courses.

\* Fine Art or Visual Art core requirements may not be used for major requirements.

**Total Hours Required: 144**

## **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. Education majors are required to take ART 3033 Art for Children, 3053 Multicultural Art, ART 3063 Art for Adolescents, and 3073 Art Criticism Aesthetics in Education.

Proposed changes in areas and levels of Texas teaching certificates by the State Board for Educator Certification (SBEC) will result in major changes in teacher education programs throughout the State. Information in this catalog reflects current programs.

### **Visual Arts, with All-Level Art Certification (formerly Art Education)**

#### **University Core Curriculum Requirement (42 hrs.)**

#### **Art Requirements (60 hrs.)**

- ART 1203. Basic Design
- ART 1213. Color and Design
- ART 1303. Basic Drawing
- ART 1313. Basic Drawing
- ART 1503. Introduction to Painting
- ART 1603. Introduction to Photography
- ART 2223. Introduction to Computer Based Art
- ART 3713. Watercolor
- ART 3753. Sculpture
- ART 3823 or 3833 or 3843. Ceramics
- ART 2303. Figure Drawing
- ART 3033. Essentials of Art
- ART 3053. Multicultural Perspectives in Art
- ART 3063. Essentials of Art for Adolescents
- ART 3073. Art Criticism and Aesthetics for Educators

Select 15 credit hours from the following:

- ART 2503, 2513. Art History, 2713. Understanding the Arts - Art
- ART 3343, 3503, 3513, 4523, 4903 (Film Noir), 3303

#### **Pedagogy and Professional Responsibilities (27 hrs.)**

- EDUC 2003. Legal, Ethical, Prof. Role & Resp. (TECA)
- EDUC 3003. Learning Theory & Development
- EDUC 3001. Integrating Technology for Eff. Lrng.

EDUC 4004. Design & Implementation of Assess. & Instruct.  
EDUC 4001. Integrating Tech. into D & I of A & I  
EDUC 4102. Classroom Environment & Management  
EDUC 4316. Student Teaching (6)

Teaching Foundations  
CSCI 3002. Technology  
LS 3002. Information Literacy  
READ 3013. Literacy and Learning Across the Curriculum

Minimum THEA scores required: Math 240, Reading 260, Writing 240. Pass TeXES qualifying exam with 80% or above. Portfolio required.

**Total Hours Required: 129**

## **Bachelor of Fine Arts Degree Program**

### *Graphic Design Concentration*

#### **University Core Curriculum Requirement (42 hrs.)**

#### **Art Core Requirements (45 hrs.)**

ART 1203. Basic Design  
ART 1213. Color and Design  
ART 1303. Basic Drawing  
ART 1313. Basic Drawing  
ART 1503. Introduction to Painting  
ART 2303. Figure Drawing (6 hrs.)  
ART 2503 or 2513. History of Art - Ancient and Primitive or History of Art Medieval.  
ART 2223. Introduction to Computer Based Art  
ART 3503. History of Art - Renaissance  
ART 3513. History of Art - 19th Century  
ART 3713. Watercolor  
ART 3753. Sculpture  
ART 3823 or 3833 or 3843. Ceramics or 1603. Introduction to Photography  
ART 4523. History of Art - 20th Century

#### **Art Electives (6 hrs.)**

**Graphic Design Requirements (48 hrs.)**

- ART 3243. Fundamentals of Type and Image
- ART 4223. Graphic Design (9 hrs.)
- ART 4233. Professional Practices
- ART 2653. Black and White Photography
- ART 4653. Color Photography
- ART 4953. Cooperative Education (6 hrs.)
- Art Concentration (6 hrs.)\*
- BUS 1093. Fundamentals of Business Enterprise
- BUS 3113. Principles of Marketing
- Electives (9 hrs.)

**Total Hours Required: 141**

\* Must be 3000 or 4000 level courses within respective concentration.  
\* Fine Art or Visual Arts core requirements may not be used for major requirements.

*Graphic Design Minor*

To fulfill the academic minor in Graphic Design a minimum of 18 credit hours is required. A minimum of two courses (6 credit hours) must be at the 3000 (junior) and/or 4000 (senior) level. Please contact the Visual Arts Department to arrange for a minor academic advisor.

The following is the list of courses for students seeking an undergraduate minor in Graphic Design within the Visual Arts Department at TWU.

<i>Course</i>	<i>Credits</i>
ART 1203. Basic Design	3
ART 1213. Color and Design	3
ART 2223. Introduction to Computer based Art	3
ART 4223. Graphic Design	3

Select two from the following three courses:

ART 3243. Fundamentals of Type and Image	3
ART 4273. Interactive Computer Media	3
ART 4663. Digital Imaging	<u>3</u>
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### *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/as/va](http://www.twu.edu/as/va)

Computer Science – [www.twu.edu/as/mathcs](http://www.twu.edu/as/mathcs)

English – [www.twu.edu/as/esfl](http://www.twu.edu/as/esfl)

## **Bachelor of Fine Arts Degree Program with a concentration in: Photography with Business**

### **University Core Curriculum Requirement (42 hrs.)**

#### **Art Core Requirements (51 hrs.)**

- ART 1203. Basic Design
- ART 1213. Color and Design
- ART 1303. Basic Drawing
- ART 1313. Basic Drawing
- ART 1503. Introduction to Painting
- ART 2223. Introduction to Computer Based Art
- ART 2303. Figure Drawing (6 hrs.)
- ART 2503 or 2513. History of Art - Ancient and Primitive or History of Art Medieval.
- ART 3343. Women in Visual Arts
- ART 3503. History of Art - Renaissance
- ART 3513. History of Art - 19th Century
- ART 3713. Watercolor
- ART 3753. Sculpture
- ART 3823 or 3833 or 3843. Ceramics or 1603. Introduction to Photography
- ART 4073. Contemporary Issues in Art
- ART 4523. History of Art - 20th Century

#### **Art Elective (3 hrs.)**

**Photography with Business Requirements (42 hrs.)**

ART 2653. Basic Photography  
ART 4233. Professional Practice  
ART 4653. Color Photography  
ART 4663. Digital Imaging  
ART 4673. Alternative Photo Processes  
ART 4683. Photographic Possibilities  
ART 4953 Cooperative Education (6 hrs.)  
Art Concentration (9 hrs.)  
BUS 1093. Fundamentals of Business Enterprise  
BUS 3113. Principles of Marketing  
BUS 2803. Women in Business

**Total Hours Required: 138**

**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).

**Intermedia Art Minor**

Choose 18 hours from 4 of the following areas:

Ceramics  
Drawing/Printmaking  
Photography  
Digital Imaging  
Painting  
Sculpture  
Book Arts / Papermaking

The final work completed in this minor should reflect concepts and media from each of the chosen areas. See departmental advisor for details.

*Art Undergraduate Courses*

**ART 1203. (ARTS 1311) Two-Dimensional Color and Design.** 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. (ARTS 1312) Three-Dimensional Design.** 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.

\* Must be 3000 or 4000 level courses within respective concentration.

\* Fine Art or Visual Arts core requirements may not be used for major requirements.

\* Subject to approval by Texas Higher Education Coordinating Board.



**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. Fulfills university Fine Arts core requirement. Two lecture, four studio hours a week. Credit: Three hours.

**ART 1313. Basic Drawing.** (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. Fulfills university Fine Arts core requirement. Two lecture, four studio hours a week. Credit: Three hours.

**ART 1603.** (ARTS 2356) **Introduction to Photography.** 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. Fulfills university Fine Arts core requirement. Two lecture, four studio hours a week. Credit: Three hours.

**ART 2223.** (ARTS 2351) **Introduction to Computer Based Art.** 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.** (ARTS 1303) **History of Art-Ancient and Primitive.** A study of art from the beginning of civilization to the fall of the Roman Empire: ethnic, sociology, and philosophical background. 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 2513.** (ARTS 1304) **History of Art-Medieval.** 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. Fulfills University Fine Arts Core requirement. Credit: Three hours.

**ART 2653. (ARTS 2357) Black and White Photography.** Experience in using 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. (ARTS 1301) Understanding the Arts - Visual Arts.** 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. Fulfills university Fine Arts core requirement. Three lecture 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 courses does not fulfill the University Fine Arts Core requirement. Two lecture, four studio hours a week. Credit: Three hours.

**\*ART 3053. Multicultural 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. Fulfills university Fine Arts and Multicultural core requirement. 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 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 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. Fulfills university Fine Arts core requirement. 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. Fulfills university Fine Arts core requirement. 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.

**ART 3713. (ARTS 2366) Painting-Watercolor.** 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 3753. (ARTS 2326) 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, 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. (ARTS 2346) Ceramics: Handbuilding.** 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. (ARTS 2347) Ceramics: Throwing.** 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 3853. Advanced Ceramics.** Continued study of ceramic techniques and artwork. Encourages students to develop a unique body of work in clay. Prerequisite: 3 hours credit in ART 3843. Appropriate for art and non-art majors and art minors. Does not fulfill the University Fine Arts core requirement. May be taken for up to 12 hours credit. Two lecture, four studio hours per week. Credit: Three hours.

**\*ART 3863 Advanced Ceramic Techniques.** 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. Prerequisites: 3 hours credit in ART 3843. Appropriate for art and non-art majors and art minors. Does not fulfill the University Fine Arts core requirement. May be taken for up to 12 hours. Two lecture, four studio hours per 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.

**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 4223. Graphic Design.** Graphic design problem solving, advertising layout, typography, computer illustration and design, study of graphic design history and commercial printing processes. Field trips. Prerequisites: ART 1203, 1213, 1303, 1313, or permission of the instructor and chair of the department. Two lecture and four studio hours a week. May be taken for up to 12 hours of credit. Each semester of work is progressively more advanced than the previous semester. Credit: Three hours.

**ART 4233. Professional Practice.** 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 4243. Internet Based Art.** Examination of the Internet as a new venue in the arts and exploration of the creative possibilities of the medium. Two lecture, four studio hours per week. Credit: Three hours.

**\*ART 4273. Interactive Computer Media.** Principles of interactivity in computer media. Students combine 2-dimensional imaging, audio and video for developing creative, interactive artwork. Prerequisite: ART 2223. May be taken for up to 12 hours credit. Two lecture, four studio hours per 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. Fulfills university Fine Arts core requirement. 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 negatives and slides. Class critiques to encourage individual vision through color materials. Prerequisite: 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 Imaging.** 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. 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. Two lecture, four studio hours a week. May be taken for up to 12 hours credit. Each semester of work is progressively more advanced. 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 4903. Selected Topics.** Individual study of selected topics in art. Prerequisite: Permission of the instructor and chair of the department. 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*

- ART 5023. Painting - Theory and Development
- ART 5043. Papermaking
- ART 5053. Typographic Bookmaking
- ART 5063. Theories of Art
- ART 5223. Graphic Design
- ART 5303. Drawing
- ART 5503. History of Art
- ART 5603. North American Indian Art
- ART 5653. Creative Photography
- ART 5663. Alternative Photographic Processes
- ART 5673. Portfolio Photography
- ART 5683. Professional Practices in Photography
- ART 5703. Painting
- ART 5753. Sculpture
- ART 5853. Advanced Ceramics
- ART 5863. Advanced Ceramics Techniques
- ART 5903. Special Topics
- ART 5913. Individual Study
- ART 5983. Professional Paper/Project
- ART 5973. Thesis-Prospectus
- ART 5993. Art Thesis
- ART 5996. M.F.A. Exhibit

# School of Management

*Director: Paula Ann Hughes, Ph.D., Professor*

*Location: CFO 506*

*Telephone: (940) 898-2111*

*Telefax: (940) 898-2120*

*E-Mail: som@twu.edu*

*www.twu.edu/som*

*Faculty: Professors D. Bulls, A. Griffin, R. Rezac; Associate Professors P. Mercer, M. Raisinghani; Assistant Professors J. Newcomer, D. Rylander, P. Baker, M. Tengesdal; Visiting Assistant Professor B. Wilcox; Lecturer S. Taylor.*

The School of Management offers programs leading to the Bachelor of Business Administration (B.B.A.), and Bachelor of Science (B.S.) degrees. The Bachelor of Business Administration (B.B.A.) program prepares students for careers in accounting, business administration (general or finance), management, marketing, and human resources. Students interested in taking the CPA exam must have 150 semester hours of course work.

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.A. dual degree 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.A. offerings refer to the *Graduate Catalog*. For more information, please visit the School's home page at [www.twu.edu/som/](http://www.twu.edu/som/).



## **Admission Requirements**

Please see the **Admission** section of this catalog.

## **Undergraduate Degrees**

### **B.B.A – Bachelor of Business Administration**

- A. Accounting
- B. Business Administration (General or Finance)
- C. Human Resources
- D. Management
- E. Marketing

### **Bachelor of Science in Business – for Teaching Certification only**

Total hours required: 126 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. In addition, students are required to complete a 30 semester hour specialization (listed below).

### **B.B.A. Semester Hours Summary**

- 64 hours including lower level courses and Core Curriculum
- 30 hours advanced Business courses
- 30 hours specialization courses

### **Total: 124 hours required for degree**

Note: CPA candidates must take 150 semester hours.

### **Courses Required for all B.B.A. degrees:**

- \*ECO 1013 Principles of Micro Economics
- ECO 1023 Principles of Macro Economics
- \*\* BUS 2043 Fundamentals of Accounting I
- BUS 2053 Fundamentals of Accounting II
- \*MATH 1703 Elementary Statistics I
- MATH 1713 Elementary Statistics II
- MATH 2203 Business Analysis I
- MATH 2213 Business Analysis II or Approved Computer Science Elective
- \*BUS 2803 Women in Business OR
- \*BUS 3393 Law for Women
- BUS 3003. Principles of Management
- BUS 3053. Business Finance
- BUS 3113. Principles of Marketing
- BUS 3013. Business Law & Ethics
- BUS 3163. Business Communications
- \*BUS 3183 International Business

BUS 3513. Professional Presentation Strategies (except Accounting majors)  
BUS 3533. Management Information Systems  
BUS 4333. Business Policy  
BUS 4543. Quantitative Management Analysis  
BUS ..... Advanced Business Elective

\* Satisfies Core Curriculum requirements.

\*\*Satisfaction of the TASP Math requirement is a prerequisite for BUS 2043 Fundamentals of Accounting I.

## **Specializations for B.B.A. Degrees**

### **(A) B.B.A. – Business Administration -Finance** (30 hours specialization)

Required Courses (15 hours)

BUS 3063. Income Tax Accounting I  
BUS 3133. Investments  
BUS 4243. Financial Management  
BUS 4253. Financial Planning  
ECO 3063. Money and Banking

Business electives (15hours) advanced business courses by approval of School of Management advisor

### **(B) B.B.A. – Accounting** (30 hours specialization)

Required Courses ( 24 hours)

BUS 3063. Income Tax Accounting I  
BUS 3023. Intermediate Accounting I  
BUS 3043. Intermediate Accounting II  
BUS 3103. Cost Accounting  
BUS 4023. Advanced Accounting  
BUS 4163. Income Tax Accounting II  
BUS 4423. Auditing  
BUS ——— . (3 hour) elective accounting course

Business electives (3 hours) advanced business courses by approval of School of Management advisor.

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.

### **( C) B.B.A. – Human Resources** (30 hours specialization)

Required Courses (21 hours):

BUS 3253 Labor – Management Relations  
BUS 3273 Human Resource Management  
BUS 4013 Alternative Dispute Resolution  
BUS 4103 Training and Development

BUS 4223 Human Behavior in Business Administration  
BUS 4273 Compensation and Benefits  
BUS 4443 Small Business Management  
Business electives (9 hours) advanced business courses by approval of School of Management advisor.

**(D) B.B.A. – Management (30 hours specialization)**

Required Courses (15 hours)

BUS 3243. Entrepreneurship  
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.

**(E) B.B.A. – Marketing (30 hours specialization)**

Required Courses (15 hours)

BUS 4093. Principles of Selling  
BUS 4113. Marketing Research  
BUS 4133. Promotion Strategy  
BUS 4213. Consumer Behavior  
BUS 4553. Advanced Marketing

Business electives (15 hours) advanced business courses by approval of School of Management advisor.

## **Bachelor of Science in Business**

### **Leading to 8-12 Certification in Business Administration**

#### **University Core**

ENG 1013, 1023  
ENG (Soph Literature) (3 hrs)  
ECO 1023  
HIST 1013, 1023  
GOV 2013, 2023  
MATH 1703  
Laboratory Science (6 hrs)  
Visual/Performing Arts (3 hrs)  
EDUC 3033  
Women's Studies (3 hrs)

### **Business Administration**

BUS 1093. Fundamentals of Business Enterprise  
BUS 2043. Fundamentals of Accounting I  
BUS 2053. Fundamentals of Accounting II  
BUS 3003. Principles of Management  
BUS 3063. Income Tax Accounting I  
BUS 3113. Principles of Marketing  
BUS 3153. Legal Environment of Business  
BUS 3163. Business Communications  
BUS 3533. Management Information Systems  
ECO 1013. Principles of Microeconomics

### **Minor**

Minimum of 18 hours (6 advanced) in approved minor

### **Related Studies**

MATH 2203. Business Analysis I  
CSCI 3002. Advanced Computing Technology  
EDUC 4203. Learners with Exceptionalities  
FS 3513. Adolescent Development  
LS 3002. Information Literacy  
READ 3013. Literacy Learning Across the Curriculum

### **Pedagogy and Professional Responsibility**

EDUC 2003. Schools and Society  
EDUC 3003. Learning Theory and Development  
EDUC 3001. Integrating Technology for Effective Learning  
EDUC 4004. Design and Implementation of Assessment and Instruction  
EDUC 4001. Integrating Technology Design and Implementation of Instruction  
EDUC 4102. Classroom Environment and Management  
EDUC 4066. Student Teaching in Business

## **Recommended Minors for Non-Business Majors or Non-Fashion & Textile Majors**

### **Accounting Minor**

BUS 2043. Fundamentals of Accounting I  
BUS 2053. Fundamentals of Accounting II  
Plus twelve (12) advanced hours in Accounting

### **Business Administration Minor**

BUS 1093. Fundamentals of Business Enterprise  
BUS 2043. Fundamentals of Accounting I  
BUS 3003. Principles of Management  
BUS 3053. Business Finance  
BUS 3113. Principles of Marketing  
ECO 1013. Principles of Microeconomics

### **Business Information Systems**

BUS 3533. Management Information Systems  
BUS 4173. Accounting Information Systems  
CSCI 1413. Introduction to Computer Programming  
CSCI 2433. Introduction to Assembly Language  
CSCI 3423. Database Management  
CSCI 4523. Advanced Data Design

### **Finance Minor**

BUS 2043. Fundamentals of Accounting I  
BUS 2053. Fundamentals of Accounting II **or**  
ECO 1013. Principles of Microeconomics **or**  
ECO 1023. Principles of Macroeconomics  
BUS 3053. Business Finance  
BUS 3133. Investments

*Plus Six (6) Advanced Hours from the Following:*

BUS 4243. Financial Management  
BUS 4253. Financial Planning  
ECO 3063. Money and Banking  
BUS 3063. Income Tax I

### **Management Minor**

BUS 2043. Fundamentals of Accounting I  
BUS 3003. Principles of Management  
BUS 3053. Business Finance  
BUS 3253. Labor Management Relations  
BUS 3273. Human Resource Management  
BUS 4223. Human Behavior in Business Administration

**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 4363. Merchandise Management

BUS 4503. Internet Marketing

**Small Business/Entrepreneurship Minor**

BUS 3003. Principles of Management

BUS 3113. Principles of Marketing

BUS 4053. Accounting for Small Business

BUS 4063. Principles of Selling **or**

BUS 4213. Consumer Behavior

BUS 3243. Entrepreneurship

BUS 4443. Small Business Management

(Must be last BUS course)

**Fashion Design Minor**

FT 1013. Apparel Construction techniques

FT 2013. Fashion Sketching

FT 2113. Flat Pattern Techniques

FT 2123. Apparel Design I: Mass Production Techniques

*Plus two courses from the following:*

FT 3003. Apparel Design II: Couture Techniques

FT 4033. Fashion Portfolio Development

FT 4203. Apparel Design III: Draping & Tailoring

FT 4213. Seasonal Collections

FT 4303. Computer Aided Design

**Fashion Merchandising Minor**

FT 2033. Principles of Fashion Merchandising

FT 2103. Merchandising Planning and Control

FT 3023. Career Development Strategies

FT 3063. Fashion Promotion

FT 4113. Retail Buying

*Plus one course from the following:*

FT 3043. Textile/Apparel Economics

FT 4243. Contemporary Trends

### *Business Undergraduate Courses*

**BUS 1093. Fundamentals of Business Enterprise.** A survey of the entire field of business; its nature, environment, opportunities, ownership, management, organization, functions, activities, operation. Credit: Three hours.

**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. 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 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, MATH 1703 or equivalent. 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.

**GOV 3153** (see BUS 3153). **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 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.

**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. **Prerequisite:** BUS 3113. 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 2213. 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.

**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. **Prerequisite:** BUS 3113. 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 and BUS 2053. 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 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 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 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.

**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, 4113. Credit: Three hours.

**BUS 4903. Selected Topics in Business.** Variable content. Topics selected as needed. **Prerequisite:** Permission of instructor. Credit: Three hours.

**BUS 4913. Independent Study.** Individual projects and planned readings in business. **Prerequisite:** Permission of instructor. Credit: Three hours.

**BUS 4953, 4956. Cooperative Education.**

### *Economics Undergraduate Courses*

**ECO 1013. Principles of Microeconomics.** 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.** 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 4913. Independent Study.** Individual projects and planned readings in economics. **Prerequisite:** Permission of instructor. Credit: Three hours.

# Programs in Fashion and Textiles

*Program Director: Deborah D. Young, Ph.D.,  
Associate Professor*

*Location: OMB 415  
Telephone: (940) 898-2661  
FAX: (940) 898-2711  
e-mail: FT@TWU.EDU  
www.twu.edu/as/ft*

*Faculty: Professor C. Riggs; Assistant Professor S. Dragoo.*

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/as/ft](http://www.twu.edu/as/ft) 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 Programs in Fashion and Textiles.

### **Special Program Requirements**

All students majoring or minoring in Fashion Merchandising or Fashion Design are required to earn a C or better in all FT courses applied toward the degree, including transfer credits.

### **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 good in 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, core curriculum requirements include courses in history, government, composition, mathematics, natural science, visual arts, women's studies, multicultural studies, social sciences, and literature, philosophy or foreign language. Students must complete courses specified on the current program degree plan which requires 124 hours for graduation. This plan is obtained from program advisors.

### **Fashion and Textiles Courses Required**

- FT 1003. Principles of Design Development
- FT 1073. Textiles
- FT 1083. Fashion Products and Industries
- FT 2033. Principles of Fashion Marketing
- FT 2403. Production Techniques
- FT 3021. Professional Career Development
- FT 3042. Global Production and Trade
- FT 3063. Fashion Promotion
- FT 3103. Merchandise Planning and Control
- FT 3163. Production Management
- FT 4103. Advanced Merchandise Planning and Control
- FT 4113. Retail Buying
- FT 4953. Internship
- FT 4953. Internship
- FT        3-hour elective

### **Minor in Marketing Required**

- BUS 2043. Fundamentals of Accounting I
- BUS 3003. Principles of Management
- BUS 3113. Principles of Marketing
- BUS 3163. Business Communications
- BUS 4063. Retailing
- BUS 4093. Principles of Selling
- BUS 4213. Consumer Behavior
- BUS 4503. Internet Marketing

### **Additional Courses Required**

- ART 1303. Basic Drawing\*\*
- CSCI 2433. Microcomputer Applications
- MATH three hours
- ECO 1013. Principles of Microeconomics  
or ECO 1023. Principles of Macroeconomics\*\*
- FT 4083. Cultural Perspectives of Personal Appearance\*\*

## **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, core curriculum requirements include courses in history, government, composition, mathematics, natural science, visual arts, women's studies, multicultural studies, social sciences, and literature, philosophy or foreign language. Students must complete courses specified on the current program degree plan which requires 124 hours for graduation. This plan is obtained from program advisors.

### **Fashion and Textiles Courses Required**

- FT 1003. Principles of Design Development
- FT 1013. Principles of Design Construction
- FT 1073. Textiles
- FT 1083. Fashion Products and Industries
- FT 2013. Fundamentals of Fashion Sketching
- FT 2113. Techniques of Pattern Design
- FT 2403. Production Techniques
- FT 3013. History of Costume
- FT 3021. Professional Career Development
- FT 3042. Global Production and Trade
- FT 3163. Production Management
- FT 3403. Draping and Couture Techniques
- FT 4033. Fashion Portfolio Development
- FT 4213. Collection Design and Development
- FT 4303. Computers in Fashion Design
- FT 4403. Contemporary Tailored Design
- FT 4953. Internship
- FT 4953. Internship



### Additional Courses Required

- ART 1303. Basic Drawing\*\*
- ART 2303. Figure Drawing
- ART 2223. Introduction to Computer Based Art
- ART 4223. Graphic Design
- BUS 3113. Principles of Marketing
- BUS 4213. Consumer Behavior
- CSCI 2433. Microcomputer Applications
- ECO 1013. Principles of Microeconomics  
or ECO 1023. Principles of Macroeconomics\*\*
- FT 2033. Principles of Fashion Marketing
- FT 3103. Merchandise Planning and Control
- FT 4083. Cultural Perspectives of Personal Appearance\*\*

### *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 and FT 1013. 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. Prerequisite: FT 1013. 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 3021. Professional Career Development.** 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. One lecture hour a week. Credit: One hour.

**FT 3042. 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. Two lecture hours a week. Credit: Two 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 and three (3) hours in Math or permission from the instructor. Three lecture hours a week. Credit: Three hours.

**FT 3163. Production Management.** Analysis of production with a focus on managing quality, production development, product performance, sourcing and cost. Prerequisites: Junior standing. 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 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. Cultural Perspectives of Personal Appearance.** Examination of the personal appearance practices and beliefs of diverse cultures specifically focused on dress and adornment. Investigation of the use of appearance as a non-verbal method of communication. Fulfills university multicultural core curriculum requirement. Three lecture hours a week. Credit: Three hours.

**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. Interrelated functions of planning and control examined through case study. Includes learning to use computerized spreadsheets as decision-making tools. Prerequisites: FT 2033, FT 3103, and six (6) hours in Math or permission from the instructor. 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 2033 and FT 3103 or permission from the instructor. 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 or equivalent. 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 4913. Independent Study.** Topic of individual or professional interest is studied intensively. May be repeated for additional credit. Enrollment must be approved by the instructor. Credit: Three hours.

**FT 4953. Internship.** Work-study experience arranged between the University; a student; and a business, government agency, organization, or association. Fosters the transference of knowledge and skill learned in the classroom into abilities required for successful performance in a career. May be repeated up to three (3) times for credit. Requisites: Completion of 62 university credit hours with an overall GPA of 2.00. Employment position must be approved by the instructor. Students must work a minimum of 200 hours throughout the entire semester. Credit: Three hours.

**FT 4956. Internship.** Work-study experience arranged between the University; a student; and a business, government agency, organization, or association. Fosters the transference of knowledge and skill learned in the classroom into abilities required for successful performance in a career. May be repeated one (1) time for credit. Requisites: Completion of 62 university credit hours with an overall GPA of 2.00. Employment position must be approved by the instructor. Students must work a minimum of 400 hours throughout the entire semester. Credit: Six hours.

# Department of Biology

*Chair: Sarah A. McIntire, Ph.D., Professor*

*Location: GRB 230*

*Telephone: Denton (940) 898-2351, Houston (713) 794-2340*

*Telefax: (940) 898-2382*

*E-mail: [Biology@twu.edu](mailto:Biology@twu.edu)*

*[www.twu.edu/as/bio/](http://www.twu.edu/as/bio/)*

*Faculty: Professors M. McArthur, S. McIntire, N. Mills, S. Smith, L. Uphouse, A. Waldo; Associate Professor H. Conrad-Webb; Assistant Professors M. Bergel, D. Hynds, C. Maier. Laboratory Coordinators T. Page, 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 Human 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, a Master of Science in Biology Teaching, 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 124 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 M.S. degree program in Physical Therapy or Occupational Therapy.

B.S., B.A. in Biology

B.S. in Biology with Teacher Certification

See the bachelor's degree programs section of this catalog for details about requirements for the B.A. degree.

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).

## Biology Major with Research Emphasis

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 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 end 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, including Chem 3613 (Biochemistry). Before or during the Spring semester of 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 with Human Biology Emphasis**

This option is open to undergraduate students who plan to pursue a masters-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. In their senior year, they must complete an additional 12 elective hours for their Biology degree and a total of 20 hours for the B.S. degree. Electives to fulfill the Biology requirements can be chosen from courses offered in Biology or in Physical Therapy. Students must receive approval for the specific courses by an advisor in the Biology Department.

### **Bachelor of Science in Biology with Teacher Certification**

The Department of Biology offers a degree in Biology Education 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 131 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 26 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: Allen Waldo, Ph.D., Professor*

*Location: SCI 213 D*

*Telephone: (940) 898-2562*

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 124 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.

### *Graduate Courses*

None

### **For further information, please write:**

Director, Medical Technology

Texas Woman's University

P.O. Box 425799

Denton, Texas 76204-5799

E-mail: AWALDO@TWU.EDU

*Biology Undergraduate Courses*

**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; interrelationship 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.

**BIOL 1123. Principles of Biology.** (BIOL 1307) Organismal and population biology of plants and animals. For science majors and minors. 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 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. Corequisite: BIOL 4221. Three lecture hours a 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 4601. Biological Literature.** Survey of classical references with emphasis on utilization of journals. One conference hour a week. Credit: One hour.

**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: BIOL 4813. 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. 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, special-

ized 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.

**BIOL 4951, 4953. Cooperative Education.**

**BIOL 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. No more than three semester credit hours will count towards the biology degree. Nine laboratory hours a week. Credit: Three hours.

### *Graduate Courses*

BIOL 5003. Advanced General Biology

BIOL 5023. Biology Laboratory Methods for the Junior High Teacher

BIOL 5033. Laboratory Methods for the High School Biology Teacher

BIOL 5044. Pathophysiology

BIOL 5111. Teaching Methods for Biology Laboratory Instruction

BIOL 5113. Animal Diversity

BIOL 5123. Biostatistics

BIOL 5243. Medicinal Plants

BIOL 5333. Advanced Pathophysiology

BIOL 5503. Research Methods

BIOL 5611. Readings in Biology

BIOL 5613. Readings in Biology

BIOL 5681. Seminar

BIOL 5801. Biological Research

BIOL 5803. Biological Research

BIOL 5881. Biological Research

BIOL 5883. Biological Research

BIOL 5901. Special Topics

BIOL 5903. Special Topics

BIOL 5911. Individual Study

BIOL 5913. Individual Study

BIOL 5973. Professional Paper

BIOL 5983. Thesis

BIOL 5993. Thesis

BIOL 6334. Advanced Cell Biology  
BIOL 6513. Molecular Biology  
BIOL 6734. Advanced Genetics  
BIOL 6901. Special Topics  
BIOL 6903. Special Topics  
BIOL 6911. Individual Study  
BIOL 6913. Individual Study  
BIOL 6983. Dissertation  
BIOL 6993. Dissertation

### *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 2011. Food Microbiology Laboratory.** 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. Corequisite: BACT 2013. Three laboratory hours a week. Credit: one hour.

**BACT 2013. 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. Corequisite: BACT 2011. 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. 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.

### *Graduate Courses*

BACT 5143. Pathogenic Microorganisms

BACT 6534. Plasmids as Vectors for Recombinant DNA

BACT 6544. Viruses as Vectors for Recombinant DNA

### *Botany Undergraduate Courses*

**BOT 2111. Plant Biology Laboratory.** 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.** 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. 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: Three hours.

**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 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 2041, 2043, 2051 and 2052 or equivalent. Corequisite: ZOOL 3121. Three lecture hours a week. Credit: Three hours.

**ZOOL 3231. Comparative Vertebrate Anatomy Laboratory.** Dissection of representative chordates with emphasis on the gross anatomy and evolution of their organ systems. Corequisite: ZOOL 3233. Three laboratory hours a week. Credit: One hour.

**ZOOL 3233. Comparative Vertebrate Anatomy.** Gross anatomy of organ systems of representative chordates with particular reference to vertebrate anatomy. Prerequisite: BIOL 1123. Corequisite: ZOOL 3231. 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: Introductory course in general biology or zoology. 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.

### *Graduate Courses*

ZOOL 5423. Endocrinology

### *Science Undergraduate Courses*

A listing of science courses can be found at the end of the Department of Chemistry entries in this catalog.

# Department of Chemistry and Physics

*Interim Chair: Jack Gill, Ph.D., Professor*

*Location: Science 105*

*Telephone: (940) 898-2550*

*Telefax: (940) 898-2548*

*E-Mail:*

*[www.twu.edu/as/chemphy/](http://www.twu.edu/as/chemphy/)*

*Faculty: Professors J. Gill, J. Johnson, C. Riggs; Associate Professors M. Britt, J. Espinosa, R. Jones; Assistant Professor M. Anderson; Lecturers C. Maguire, L. Peebles.*

The Department of Chemistry and Physics offers programs leading to both undergraduate and graduate degrees in chemistry. The undergraduate curriculum leads to the Bachelor of Science degree in chemistry. Academic minors are offered in chemistry and general science. Teacher certification can be obtained to teach general science and physical science in the secondary schools.

The objectives of the undergraduate chemistry program are (1) to educate the student so as to achieve an understanding of the behavior of material substances and of the energy changes accompanying this behavior and (2) to apply this knowledge for the benefit of humanity. The programs offered can prepare the student for graduate studies in chemistry, admission to medical, dental, or pharmacy school, a career as a professional chemist or a career as a teacher.

Graduates are employed as chemists, scientists, and managers in research, development, and production positions in a variety of settings and fields: pharmaceuticals, cosmetics, food products, forensics, agricultural chemicals, medical research, and environmental law enforcement. Others go on to obtain master's and doctoral degrees in the field. Pre-med graduates have successfully earned medical/dental degrees from all the medical schools in Texas and elsewhere as well.

To facilitate student success in chemistry courses, the Science Learning Resource Center (SLRC) gives diagnostic examinations in basic science and chemistry. The results obtained 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 the 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 and 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/as/chemphy/](http://www.twu.edu/as/chemphy/).

### **Admission Requirements**

Please see the Admission section of this catalog.

### **Special Requirements**

Only courses in which a grade of C or better is received 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. 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.

### **Undergraduate Degrees**

B.S. in Chemistry

B.S. in Chemistry with Teacher Certification

## **Chemistry Major— American Chemical Society Professional Certification**

### **General Description**

This degree plan, approved by the American Chemical Society, is the most comprehensive offered by the department. Students who complete this degree program will receive A.C.S. 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 124 credit hours is required.

### **Chemistry Courses Required**

CHEM 1001. Horizons in Chemistry I  
 CHEM 1101. Horizons in Chemistry II  
 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 I  
 CHEM 3221. Organic Chemistry Laboratory II  
 CHEM 3223. Organic Chemistry II  
 CHEM 3243. Organic Structure Determination  
 CHEM 3334. Quantitative Analysis  
 CHEM 3411. Physical Chemistry Laboratory I  
 CHEM 3413. Physical Chemistry I

CHEM 3421. Physical Chemistry Laboratory II  
 CHEM 3423. Physical Chemistry II  
 CHEM 3613. Biochemistry  
 CHEM 4314. Instrumental Analysis  
 CHEM 4514. Inorganic Chemistry  
 CHEM 4983. Undergraduate Research

### Mathematics Courses Required

MATH 2014. Introductory Calculus I  
 MATH 2024. Introductory Calculus II  
 MATH 3104. Intermediate Calculus I  
 MATH 3123. Differential Equations, or  
 MATH 3063. Linear Algebra

### Physics Courses Required

PHYSICS 2151. General Physics Laboratory I  
 PHYSICS 2153. General Physics I  
 PHYSICS 2161. General Physics Laboratory II  
 PHYSICS 2163. General Physics II

### FRESHMAN YEAR

<i>First Semester</i>		<i>Second Semester</i>	
CHEM 1001.....	1	CHEM 1101 .....	1
CHEM 1111-1113 <sup>1</sup> .....	4	CHEM 1121-1123 <sup>1</sup> .....	4
ENG 1013.....	3	ENG 1023.....	3
MATH 2014.....	4	MATH 2024.....	4
HIST 1013.....	3	HIST 1023.....	3
	15	Fine Arts.....	3
			18

### SOPHOMORE YEAR

CHEM 2211-2213 <sup>1</sup> .....	4	CHEM 3221-3223 <sup>1</sup> .....	4
PHYS 2151-2153 <sup>1</sup> .....	4	PHYS 2161-2163 <sup>1</sup> .....	3
Literature/Logic .....	3	MATH 3123 or 3063.....	3
MATH 3104 .....	4	Core .....	3
CSCI 1413 .....	3	Electives.....	3
	18		16

### JUNIOR YEAR

CHEM 3334.....	4	CHEM 3421-3423 <sup>1</sup> .....	4
CHEM 3411-3413 <sup>1</sup> .....	4	GOV 2023.....	3
GOV 2013.....	3	Core .....	3
Core .....	3	CHEM 3613.....	3
Electives.....	3	Electives.....	3
	17		16

### SENIOR YEAR

CHEM 3243.....	3	CHEM 4314.....	4
CHEM 4514.....	4	Minor <sup>2</sup> or Electives.....	8
CHEM 4983.....	3		12
Minor <sup>2</sup> or elective.....	2		
	12		

<sup>1</sup>Hyphenated courses are corequisite courses which must be taken in the same semester.

<sup>2</sup>Appropriate minor fields are mathematics, computer science or biology. The mathematics courses required in this curriculum are applicable to minors in these fields. The computer science minor should include CSCI 1403 and CSCI 1413. The biology minor should include BIOL 1111, BIOL 1113, and BIOL 1121, BIOL 1123.

## **B.S. in Chemistry-Biochemistry Concentration**

Students who complete this degree program will receive American Chemical Society professional certification. This program is recommended for those applying for admission to medically-related professional programs, working toward advanced degrees in chemistry, or careers in the chemical industry. A minimum of 124 credit hours is required.

### *Chemistry Courses Required*

CHEM 1001. Horizons in Chemistry I  
CHEM 1101. Horizons in Chemistry II  
CHEM 1111. Chemical Principles I Laboratory  
CHEM 1113. Chemical Principles I  
CHEM 1121. Chemical Principles II Laboratory  
CHEM 1123. Chemical Principles II  
CHEM 2211. Organic Chemistry Laboratory I  
CHEM 2213. Organic Chemistry I  
CHEM 3221. Organic Chemistry Laboratory II  
CHEM 3323. Organic Chemistry II  
CHEM 3313. Physical Chemistry for the Life Sciences  
CHEM 3632. Protein and Nucleic Acid Chemistry Laboratory  
CHEM 3633. Protein and Nucleic Acid Chemistry  
CHEM 3643. Metabolic Biochemistry  
CHEM 4001. Research Presentations in Chemistry and Biochemistry  
CHEM \_\_\_\_\_. Inorganic Biochemistry (course pending)

### *Biology Courses Required*

BIOL 1111. Principles of Biology Laboratory I  
BIOL 1113. Principles of Biology I  
BIOL 1121. Principles of Biology Laboratory II  
BIOL 1123. Principles of Biology II

### *Other Required Courses*

Math 2014. Introductory Calculus I  
Math 2024. Introductory Calculus II  
Math 3104. Intermediate Calculus  
Math 3123. Differential Equations  
PHYS 2151. General Physics Laboratory I  
PHYS 2153. General Physics I  
PHYS 2161. General Physics Laboratory II  
PHYS 2163. General Physics II

**Course Plan – Biochemistry Concentration****FRESHMAN YEAR**

<i>First Semester</i>		<i>Second Semester</i>	
CHEM 1001.....	1	CHEM 1101.....	1
CHEM 1111-1113.....	4	CHEM 1121-1123.....	4
ENG 1013.....	3	ENG 1023.....	3
BIO 1111-1113.....	4	BIO 1121-1123.....	4
MATH 2014.....	4	MATH 2024.....	4
	16		16

**SOPHOMORE YEAR**

CHEM 2211-2213.....	4	CHEM 3221-3223.....	4
PHYS 2151-2153.....	4	PHYS 2161-2163.....	4
HIST 1013.....	3	HIST 1023.....	3
GOV 2013.....	3	GOV 2023.....	3
Core.....	3	CSCI 1413.....	3
	17		17

**JUNIOR YEAR**

CHEM 3413.....	3	CHEM 3643.....	3
CHEM 3632-3633.....	5	MATH 3123.....	3
MATH 3104.....	4	Core.....	3
Core.....	3	Core.....	3
	15	Elective.....	3
			15

**SENIOR YEAR**

CHEM Elective.....	4	CHEM 4001.....	1
Elective.....	3	CHEM Elective.....	4
Elective.....	3	Elective.....	3
Elective.....	3	Elective.....	3
Elective.....	2	Elective.....	3
	14		14

**A Suggested Sequence of Courses****Chemistry Major -- Premedical/Predental Curriculum****General Description**

A strong presentation for admission to a medical or dental school today is by a major in chemistry with a minor in biology. A similar program is suggested for preveterinary students. Contact the departmental advisor for information concerning the pre pharmacy program. A minimum of 124 credit hours is required.

**Chemistry Courses Required**

- 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 I  
 CHEM 3221. Organic Chemistry Laboratory II  
 CHEM 3223. Organic Chemistry II  
 CHEM 3334. Quantitative Analysis  
 CHEM 3411. Physical Chemistry Laboratory I  
 CHEM 3413. Physical Chemistry I  
 CHEM 3421. Physical Chemistry Laboratory II  
 CHEM 3423. Physical Chemistry II  
 CHEM 3613. Biochemistry

Four elective advanced hours in chemistry from chemistry courses for majors listed in this catalog are highly recommended.

### **B.S. in Chemistry with a Minor in Biology (Pre medical/Pre dental)**

#### **FRESHMAN YEAR**

<i>First Semester</i>		<i>Second Semester</i>	
CHEM 1001.....	1	CHEM 1101.....	1
CHEM 1111-1113 <sup>1</sup> .....	4	CHEM 1121-1123 <sup>1</sup> .....	4
BIOL 1111-1113.....	4	BIOL 1121-1123.....	4
ENG 1013.....	3	ENG 1023.....	3
MATH 2014.....	4	MATH 2024.....	4
	16		16

#### **SOPHOMORE YEAR**

CHEM 2211-2213 <sup>1</sup> .....	4	CHEM 3221-3223 <sup>1</sup> .....	4
PHYS 2151-2153 <sup>1</sup> .....	4	PHYS 2161-2163 <sup>1</sup> .....	4
HIST 1013.....	3	HIST 1023.....	3
Core.....	3	Core.....	3
Elective.....	3	Elective.....	3
	17		17

#### **JUNIOR YEAR**

CHEM 3334.....	4	CHEM 3421-3423 <sup>1</sup> .....	4
CHEM 3411-3413 <sup>1</sup> .....	4	ZOOL 4241, 4243.....	4
BACT 3111-3113.....	4	GOV 2023.....	3
GOV 2013.....	3	Core.....	3
	15		14

#### **SENIOR YEAR**

CHEM 3613.....	3	CHEM 4314.....	4
Biology Electives.....	4	Fine Arts.....	3
Core.....	3	Electives.....	6
Elective.....	3	Core.....	3
	13		16

Eighteen hours of biology courses to complete a minor are highly recommended.

<sup>1</sup>Hyphenated courses are corequisite courses which must be taken in the same semester.

## **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 3613. Biochemistry

### **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. One of the certificates is entitled Physical Science and the other is entitled 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 Major with a Teacher Certificate in Physical Science**

The core curriculum and professional education course requirements are found in the College of Professional Education section of this catalog. A minimum of 124 credit hours is required.

<sup>1</sup>Hyphenated courses are corequisite courses which must be taken in the same semester.



### **Required Courses in Chemistry and Physics for the Physical Science certificate**

CHEM 1001. Horizons in Chemistry I  
 CHEM 1101. Horizons in Chemistry II  
 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 I  
 CHEM 3221. Organic Chemistry Laboratory II  
 CHEM 3223. Organic Chemistry II  
 CHEM 3334. Quantitative Analysis  
 CHEM 3411. Physical Chemistry Laboratory I  
 CHEM 3413. Physical Chemistry I  
 CHEM 3421. Physical Chemistry Laboratory II  
 CHEM 3423. Physical Chemistry II  
 CHEM 3613. Biochemistry  
 CHEM 4983. Undergraduate Research  
 PHYS 1033. Introduction to Astronomy  
 PHYS 2151. General Physics Laboratory I  
 PHYS 2153. General Physics I  
 PHYS 2161. General Physics Laboratory II  
 PHYS 2163. General Physics II

### **Chemistry Major with a Teaching Certificate in Science**

The core curriculum and professional education course requirements are found in the College of Professional Education section of this catalog.

To meet the requirements for the Science certificate, both 1) the coursework for the Physical Science certificate (shown above) and 2) the following courses are required.

BIOL 1111. Principles of Biology Laboratory I  
 BIOL 1113. Principles of Biology I  
 BIOL 1121. Principles of Biology Laboratory II  
 BIOL 1123. Principles of Biology II  
 BIOL 4221. Ecology Laboratory  
 BIOL 4223. Ecology  
 SCI 2113. Earth Science I  
 SCI 2123. Earth Science II

Please note: BIOL 1111, 1113, 1121, 1123 are used to meet the core curriculum science requirement, but must be completed to receive the Science certificate.

### *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

**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.

**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 3613. Biochemistry.** Chemistry and metabolic pathways of biologically important molecules (carbohydrates, lipids, proteins, and nucleic acids). Prerequisite: CHEM 3223. 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, electro-

chemistry, 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 3424. 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 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*

CHEM 5101. Seminar

CHEM 5213. Advanced Organic Chemistry

CHEM 5323. Advanced Analytical Chemistry

CHEM 5523. Advanced Inorganic Chemistry

CHEM 5613. Biochemistry I

CHEM 5623. Biochemistry II

CHEM 5891. Research in Chemistry

CHEM 5893. Research in Chemistry

CHEM 5896. Research in Chemistry

CHEM 5911. Individual Study in Chemistry

CHEM 5912. Individual Study in Chemistry  
 CHEM 5913. Individual Study in Chemistry  
 CHEM 5951, 5953, 5956. Cooperative Education  
 CHEM 5973. Professional Paper  
 CHEM 5983. Thesis  
 CHEM 5993. Thesis

### *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: Physical Science I. (PHYS 1415).** Development and application of common principles in physical science, includes composition, structure and behavior of matter, laws of motion and thermodynamics, work and energy; properties of waves, electricity and magnetism; relationship to 21st century issues. Three lecture and two laboratory hours a week. Credit: Four hours.

**SCI 1123. General Life Science.** (PHYS 1317) 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 2113. Earth Science I.** (GEOL 1301) 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 1302) 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. Meets laboratory science requirement for B.A. and B.S. degrees. Prerequisite: SCI 2113. Two lecture and 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 4911, 4913. Independent Study in Science.** Independent Student readings in modern science. Three conference hours a week. Credit: One or three hours.

### *Graduate Courses*

SCI 5903. Special Topics in Science  
SCI 5993. Thesis

### *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.

### *Graduate Courses*

PHYS 5913. Individual Study

## Department of English, Speech, and Foreign Languages

*Interim Chair: Lou Thompson, Ph.D., Professor*

*Location: CFO 906*

*Telephone: (940) 898-2324*

*Telefax: (940) 898-2297*

*E-Mail: LThompson2@mail.twu.edu*

*www.twu.edu/as/engspfl/*

*Faculty: Professors W. Berry, P. Bridges, H. Burns, J. Palmer, M. Randeri, A. Stuart, L. Thompson, W. Tanner, S. Webb; Associate Professors J. Bean, V. Casper, R. Greer, D. Grigar, A. Litton, N. Nik, S. Souris; Assistant Professor L.K. Marsh.*

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 (124 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 42 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
- 9 hours: English Literature: 3013, 3023, and either 4243 or 4903
- 12 hours: Advanced courses (to be chosen from literature, language, linguistics, cooperative education, professional writing courses)

No grade lower than a C will count toward an English major.

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.

## Certification Programs Offered

The Department of English, Speech, and Foreign Languages offers teacher certification in 8-12 English/Language Arts.

\*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  
(TExES Requirement) – B or better
- 3 hours: English 3243: Literary Analysis and Criticism  
(TExES 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 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. Core composition requirement.

**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. Core literature requirement.

**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. Core literature requirement.

**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. Core literature requirement.

**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. Core literature requirement.

**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. Core literature requirement.

**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. Multicultural studies requirement. Core literature requirement.

**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 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 3111. Writing Laboratory.** Guided study in ways students may improve writing competencies through learning editing skills. May be repeated for credit. Two laboratory hours a week. Credit: One hour.

**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. Multicultural studies requirement. Core literature requirement.

**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. Multicultural studies requirement. Core literature requirement.

**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.

**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, Williams, and Albee. 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 characteristics 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. Three lecture hours a week. Credit: Three hours. May be repeated for credit when the topic varies. Women's studies requirement. Core literature requirement.

**ENG 4903. Selected Topics.** Varied topics of literature: a period, specific authors, specific themes. Prerequisites: Nine hours of English. Three lecture hours a week. Credit: Three hours. May be repeated for credit when the topic varies.

**ENG 4911. Independent Study.** Detailed study of a specialized topic in English. Prerequisite: Nine hours of English or permission of instructor. Credit: One hour. May be repeated for credit when the topic of investigation varies.

**ENG 4913. Independent Study.** Directed study of a specific focus in literature. Readings, conferences, special projects. Prerequisites: Nine hours of English or permission of instructor. Credit: Three hours. May be repeated for credit when the topic varies.

**ENG 4953. Cooperative Education.** (ENGL 2389)

### *Graduate Courses*

ENG 5033. Chaucer

ENG 5043. English Grammar and Syntax

ENG 5083. Bibliography and Research Methods

ENG 5143. Drama of the Restoration and the Eighteenth Century

ENG 5153. Studies in Twentieth-Century American and British Literature

ENG 5163. Sociolinguistics

ENG 5173. Studies in Ethnic, Multicultural and Cross Cultural Literature

ENG 5213. Studies in the English Renaissance

ENG 5223. Studies in Seventeenth-Century Poetry and Prose

ENG 5233. Studies in the Literature of the Eighteenth Century

ENG 5243. Studies in the Romantic Period

ENG 5253. Studies in the Victorian Period

ENG 5263. Studies in American Literature

ENG 5273. Studies in Fiction

- ENG 5283. Studies in Literary Criticism
- ENG 5333. Studies in Writing in Networked Environment
- ENG 5343. Rhetoric and Composition: Theory and Practice
- ENG 5353. Rhetoric and Composition: Theory and Practice of Electronic  
Texts
- ENG 5363. Studies in Linguistics
- ENG 5373. Professional and Academic Communication
- ENG 5393. Women and American Literature
- ENG 5703. Studies in Folklore
- ENG 5713. Old and Middle English Language and Literature
- ENG 5903. Special Topics
- ENG 5913. Individual Study
- ENG 5953. Cooperative Education
- ENG 5973. Professional Paper
- ENG 5983. Thesis
- ENG 5993. Thesis
- ENG 6083. Research Methods in Rhetoric and Composition
- ENG 6123. Milton
- ENG 6203. History of Rhetoric I
- ENG 6213. History of Rhetoric II
- ENG 6313. Studies in Rhetorical Criticism and Discourse Analysis
- ENG 6323. Studies in Feminist Rhetoric
- ENG 6343. Major Rhetorical Theories
- ENG 6733. Studies in the Profession of Rhetoric and Composition
- ENG 6913. Individual Study
- ENG 6983. Dissertation
- ENG 6993. Dissertation

## 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.

## FOREIGN LANGUAGES

### *Foreign Language Undergraduate Courses*

**FL 1033. English for International Students.** (ENGL 1306) Three lecture hours a week. Credit: Three hours.

**FL 1043. English for International Students.** (ENGL 1307) Continuation of FL 1033. Three lecture hours a week. Credit: Three hours.

**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. Meets visual or performing arts requirement. Meets multicultural studies requirement.

**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.

### *Graduate Courses*

FL 5043. English for International Students

FL 5913. Individual Study

### *French Undergraduate Courses*

**FR 1011. Audio-Lingual Practice.** To be taken concurrently with FR 1013. One lecture and one laboratory hour a week. Credit: One hour.

**FR 1013. Elementary French.** (FREN 1311) For students with no previous instruction in French. Three lecture hours a week. Credit: Three hours.

**FR 1021. Audio-Lingual Practice.** Continuation of FR 1011. To be taken concurrently with FR 1023. Prerequisite: FR 1013. One lecture and one laboratory hour a week. Credit: One hour.

**FR 1023. Elementary French.** (FREN 1312) Continuation of FR 1013. Prerequisite: FR 1013. Three lecture hours a week. Credit: Three hours.

**FR 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.

**FR 4913. Independent Study.** Selected topics in French language and literature. 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 1011. Audio-Lingual Practice.** (SPAN 1101) To be taken concurrently with SPAN 1013. Two hours of audio-lingual practice a week. Credit: One hour.

**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 1021. Audio-Lingual Practice.** Continuation of SPAN 1011. To be taken concurrently with SPAN 1023. Prerequisite: SPAN 1013. Two hours of audio-lingual practice a week. Credit: One hour.

**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 1091. Audiolingual Practice-Elementary Spanish for Health Science Professions I.** For students with no previous instruction in Spanish, and are enrolled in a health science program. Content matter focuses on health sciences. To be taken concurrently with SPAN 1093. Two hours of audio-lingual practice a week. May be repeated for credit. Credit: One hour.

**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.

**SPAN 1101. Audiolingual Practice - Elementary Spanish for Health Science Professions I.** For students with no previous instructions in Spanish, and are enrolled in a health science program. Content matter focuses on health sciences. To be taken concurrently with SPAN 1093. Two hours of audio-lingual practice a week. Credit: One hour.

**SPAN 1121. Audiolingual Practice - Elementary Spanish for Health Science Professions II.** For continuing students with Spanish 1101 or who are enrolled in a health science program. Content matter focuses on health sciences. To be taken concurrently with SPAN 1193. Two hours of audio-lingual practice a week. Credit: One hour.

\*Subject to approval by the Coordinating Board Texas College and University Systems.

\*\*This course may be taken concurrently with SPAN 1091.

**SPAN 1191. Audiolingual Practice-Elementary Spanish for Health Science Professions II.** For students with no previous instruction in Spanish, and who are enrolled in a health science program. Content matter focuses on health sciences. To be taken concurrently with SPAN 1193. Two hours of audio-lingual practice a week. May be repeated for credit. Credit: One hour.

**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, 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.** 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.** 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.

## *Graduate Courses*

**SPAN 5913. Individual Studies in Hispanic Language and Literature.**

# Department of History and Government

*Chair: Jim R. Alexander, Ph.D., Professor*

*Location: CFO 605*

*Telephone: (940) 898-2133*

*Telefax: (940) 898-2130*

*Email: HistGov@twu.edu*

*www.twu.edu/as/histgov/*

*Faculty: Professors J. Alexander, V. Belfiglio, L. Hodges, T. Hoyer, H. Landry, B. Presnall, P. Travis; Associate Professors, J. Lawhon, J. Robb; Assistant Professors K Landdeck, M. Will de Chaparro; Lecturer II: 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 politics, legal studies, and public service 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 Masters 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; foreign service, non profit, administrative, federal and state civil service.

All history and government majors must complete a minimum of 124 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**

Foreign Language (a total of 6 hrs., all the same language) 6 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.

### **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

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 hours must be non-U.S.

### **Government Courses Required For a Government Major (B.A. or B.S.):**

(The student may choose from three separate emphases. Each requires thirty hours of government.)

#### **GOVERNMENT MAJOR (Emphasis in 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 Thought from among:

GOV 3723. Modern Political Thought

GOV 3733. American 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 3123. Legal Research

GOV 3133. Legal Research II

GOV 3303. The American Legislative Process

GOV 4083. Constitutional Law: Individual Rights

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 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 3513. Japanese Culture and Politics

GOV 3723. Modern Political Thought

GOV 3733. American Political Thought

GOV 4073. Constitutional Law: Governmental Structure

GOV 4523. American Foreign Policy

GOV 4533. International Relations

GOV 4553. Modern Nationalism

GOV 4603. Legal Assistant Internship

GOV 4606. Legal Assistant Internship

GOV 4613. Comparative Government: Western Europe

GOV 4633. Comparative Government: Africa and Asia

GOV 4813. Seminar in Public Policy

GOV 4833. Introduction to Political Science

Plus any six hours of government

#### GOVERNMENT MAJOR (Emphasis in Public Service)

Required:

GOV 4703. Constitutional Law: Gov. Structure

GOV 4113. Public Administration

GOV 3303. The American Legislative Process

GOV 4813. Seminar in Public Policy

GOV 4833. Senior Seminar

Plus three hours in advanced American Government

GOV 3063. Women in Politics

GOV 3053. The American Presidency

GOV 4133. Women in Leadership

Plus three hours in Political Thought

GOV 3723. Modern Political Thought

GOV 3733. American Political Thought

Plus three hours in International Politics

GOV 4523. American Foreign Policy

GOV 4533. International Relations

GOV 4553. Modern Nationalism

Plus six hours in government

#### 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 international 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 124 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.

#### All history major seeking certification are required to take:

HIST 2013 (World Civilization to 1715)

HIST 2023 (World Civilization since 1715)  
 HIST 3713 (Texas History)  
 HIST 4233 (Global Issues and Trends)  
 6 hours of approved advanced non U.S. courses  
 9 hours of approved advanced U.S.

### **Interdisciplinary Studies Major Seeking Certification 4-8 in Social Studies**

EDUC 3033 (Language and Culture)  
     or EDUC 4203 (Learners with Exceptionalities)  
 FS 3513 (Adolescent Development)  
 CSCI 3002 (Advanced Computing Tech)  
     or LS 3002 (Information Literacy)  
 ECON 1013 (Micro)  
     or ECON 1023 (Macro)  
 GOV 3303 (American Legislative Process)  
 SOC 3273 (World Geography)  
 HIST 4901 (Communicating History and Government)  
 MATH 1603 (Fundamentals of Elementary Mathematics I)  
 MATH 1613 (Fundamentals of Elementary Mathematics II)  
 READ 3423  
 READ 3463  
 6 additional hours of science.

### **History Major Seeking Certification in Social Studies 8-12**

GOV 4901 (Communicating in History and Government)  
 CSCI 3002 (Advanced Computing Tech)  
     or LS 3002 (Macroeconomics)  
 EDU 3033 (Language and Culture)  
     or EDU 4203 (Learners with Exceptionalities)  
 GOV 3033 (American Legislative Process)  
 GOV 3733 (Modern Political Thought)  
     or GOV 3733 (American Political Thought)  
 ECON 1013 (Micro)  
 ECON 1023 (Macro)  
 SOC 3273 (World Geography)  
 FS 3513 (Adolescent Development)  
 READ 4909 (Secondary Content Reading)

**NOTE: A grade of B or better is required in courses leading to certification, and a passing grade on the History/Social Studies pre-test is expected before taking the TEXES exam.**

As standards are changed by the state coordinating board, any modifications will be listed on the departmental web page.

## **Bachelor of Arts or Bachelor of Science 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 124 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**

Elementary certification with a specialization in history requires 18 hours of advanced history, (1013, 1023 is not advanced). American History; HIST 2013 or HIST 2023, World Civilization; and nine hours from advanced offerings in 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/as/histgov/>) 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. Topics include the broad spectrum of human activity, the politics, wars, industry, economics, culture, intellectual thought, science, artistic creations, and the interrelationships 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 and the United States. 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 2314) 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, 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 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 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.

**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 upon 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.

**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 viewpoints. 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 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 4833. 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.

**HIST 4953. Cooperative Education.** Cooperative Work-study arrangement between the university and business, industry, or selected institutions appropriate to the History program. The student will apply ideas learned in other courses to practical experience under cooperative supervision. 120 hours of work per semester for 3 hours of credit, 2 required papers. **PREREQUISITES:** approval of academic advisor. May be repeated

### *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 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 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 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 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 an 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 an 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 nonstate 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 Assistant Internship.** Integrates practical experience with the student's academic program through supervised work in an related professional environment. Prerequisite: Nine hours of legal assistant courses and approval of internship director. Credit: Three hours. May be repeated.

**GOV 4606. Legal Assistant Internship.** Integrates practical experience with the student's academic program through supervised work in an 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 Administration Internship.** Integrates practical experience with the student's academic program through supervised work in an 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 Administration Internship.** Integrates practical experience with the student's academic program through supervised work in an 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 an 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 an related professional environment. 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.** 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.**

# Department of Mathematics and Computer Science

*Chair: Don E. Edwards, Ph.D., Professor*

*Location: MCL 302*

*Telephone: (940) 898-2166*

*Telefax: (940) 898-2179*

*E-Mail: MATHCS@TWU.EDU*

*[www.twu.edu/as/mathcs/](http://www.twu.edu/as/mathcs/)*

*Faculty: Professors D. Edwards, B. Fincher, D. Marshall, F. Thompson, W. Zimmermann; Associate Professors M. Demuyne, E. Grigorieva, D. Hogan, W. Mallam; Assistant Professors M. Hamner, J. Navarra-Madson; Senior Lecturers C. Banks, B. Ferrell, E. Hays, B. Pohl.*

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. Please refer to the graduate catalog for information about courses for Master's degrees.

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/as/mathcs/](http://www.twu.edu/as/mathcs/).

### **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 124 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. Certification programs in Computer Science (8-12) and Technology Applications (8-12) are also offered and require 124 credit hours. 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 several options for students interested in pursuing an engineering degree at cooperating Texas universities after 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	Introductory Calculus I
MATH 2024	Introductory Calculus II
MATH 3053	Abstract Algebra
MATH 3104	Intermediate Calculus I
MATH 4013	Probability and Statistics
MATH 4311	Seminar in Mathematics

One of the following:

MATH 3063 Linear Algebra  
MATH 3073 Matrix Methods

### **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**

6 hours of the same laboratory science  
3 hours of computer science approved by an advisor  
Core Curriculum completion  
Elective hours as needed to complete a minimum of 124 hours of college level coursework.

### **Specializations**

Descriptions of specialized programs for mathematics students interested in engineering studies, computational math, statistics, or teacher certification can be found on our web site at [www.twu.edu/as/mathcs/](http://www.twu.edu/as/mathcs/).

## **Bachelor of Arts in Mathematics**

The requirements for this degree differ from those for the Bachelor of Science in Mathematics in the following ways:

1. the degree requires only 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. Introductory 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 1413 (+1411)	Programming for Windows (with lab)
CSCI 1423 (+1421)	Programming Fundamentals I (with lab)
CSCI 2443	Computer Organization and Machine Language
CSCI 2493	Programming Fundamentals II
CSCI 3053	Data Structures
CSCI 3443 (+3441)	Digital Logic and Computer Architecture (with lab)
CSCI 4313	Networking and Data Communications
CSCI 4311	Seminar in Computer Science

### Computer Science Electives

15 additional computer science hours, 9 of which must be advanced, to be selected with a computer science advisor.

### Other Requirements

MATH 2014	Introductory Calculus I
MATH 3013	Discrete Mathematics
MATH 4013	Probability and Statistics
CSCI 2433	Microcomputer Applications

Core Curriculum completion

Elective hours as needed to complete a minimum of 124 hours of college level coursework.

### 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, [www.twu.edu/as/mathcs/](http://www.twu.edu/as/mathcs/). 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/as/mathcs/](http://www.twu.edu/as/mathcs/).

### *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 1403 or 2433 and 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. Prerequisites: CSCI 1403 or permission of instructor. Three lecture hours a week. Credit: Three hours.

**CSCI 2443. Computer Organization and Machine Language.** (COSC 1319) (COSC 2325) 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 principals 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 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 manipu-

lation 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.

**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 3463. Organization of Programming Languages.** Studies in language definition structure, data types, control structures, run-time consideration, interpretative languages, lexical analysis and parsing. Prerequisite: CSCI 2443, 3053. 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 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 4913. Independent Study.** Individual study in computer science. Credit: Three hours.

**CSCI 4951, 4953, 4956. Cooperative Education.**

### *Computer Science Graduate Courses*

**CSCI 5613.** Computers in Education

**CSCI 5643.** Internet/Intranet Services: Design and Implementation

**CSCI 5653.** Technology Issues, Achievements and Challenges in Education

**CSCI 5663.** Statistical Programming

**CSCI 5703.** Computer Science I

**CSCI 5713.** Computer Science II

**CSCI 5753.** Computer Graphics

**CSCI 5783.** Computer-Assisted Instructional Systems

**CSCI 5793.** Statistical Computer Packages I

**CSCI 5813.** Computer Data Warehousing and Data Mining

**CSCI 5823.** Modeling Machine Learning

**CSCI 5843.** Microcomputer Applications

**CSCI 5893.** Statistical Computer Packages II

**CSCI 5911.** Individual Study

**CSCI 5913.** Individual Study

**CSCI 5921.** Statistical Analysis with Computers

**CSCI 5953.** Cooperative Education

### *Mathematics Undergraduate Courses*

**MATH 1013. Introduction to Mathematics.** (MATH 1332) For liberal arts students; topics from set theory, logic, mathematical systems, number theory, and algebra. Prerequisite: High School Algebra and Geometry. Three lecture hours a week. Credit: Three hours. CORE

**MATH 1023. Introduction to Mathematics.** (MATH 1333) Topics from geometry, probability, consumer mathematics, and statistics. Prerequisite: High School Algebra and Geometry. Three lecture hours a week. Credit: Three hours. CORE

**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; exponential, and logarithmic functions. Prerequisite: High School Algebra and Geometry and appropriate score on placement exam. Three lecture hours a week. Credit: Three hours. CORE

**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; an introduction to matrix algebra; complex numbers, sequences, the binomial theorem. Prerequisite: MATH 1303 or equivalent. Three lecture hours a week. Credit: Three hours. CORE

**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) and Bilingual Generalist (EC-Grade 4). 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) and Bilingual Generalist (EC-Grade 4). Prerequisite: High School Algebra and Geometry. Three lecture hours a week. Credit: Three hours.

**MATH 1603. Fundamentals of Elementary Mathematics I.** (MATH 1350) Set-theoretical approach to the development of the real number system; fundamental operations of arithmetic; relations and functions. Can be counted as satisfying the mathematics requirement by elementary education, special education, deaf education, and child development majors only. Prerequisite: High School Algebra and Geometry. Three lecture hours a week. Credit: Three hours. CORE

**MATH 1613. Fundamentals of Elementary Mathematics II.** (MATH 1351) Selected topics in measurement, geometry, and probability and statistics. Can be counted as satisfying the mathematics requirement by elementary education, special education, deaf education, and child development majors only. Prerequisite: High School Algebra and Geometry. Three lecture hours a week. Credit: Three hours. CORE

**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. CORE

**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. CORE

**MATH 2014. Introductory 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. CORE

**MATH 2024. Introductory 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. CORE

**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. CORE (women's studies)

**MATH 2203. Business Analysis I.** (MATH 1321) 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.** (MATH 2305) 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. Intermediate Calculus.** (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.

**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. Children's literature, manipulatives, and relevant technology are incorporated. 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*

**MATH 5003.** Math Concepts in the Educational Setting

**MATH 5103.** Problem Solving in the Elementary Grades

**MATH 5203.** Problem Solving in the Secondary Grades

**MATH 5213.** Math Manipulatives in the Classroom

**MATH 5303.** Algebra in the Mathematics Classroom

**MATH 5313.** Geometry in the Mathematics Classroom

**MATH 5423.** History of Mathematics

**MATH 5453.** Modern Geometry

**MATH 5483.** Theory of Probability and Statistics I

**MATH 5493.** Theory of Probability and Statistics II

**MATH 5513.** Matrix Algebra

**MATH 5523.** Introduction to Number Theory

**MATH 5543.** Symbolic Logic

**MATH 5563.** Logic, Sets and Real Numbers

**MATH 5573.** Statistical Methods I

**MATH 5583.** Statistical Methods II

**MATH 5763.** Methods of Numerical Computation

**MATH 5833.** Computer-Aided Modeling

**MATH 5903.** Special Topics

**MATH 5913.** Individual Study

**MATH 5953.** Cooperative Education

**MATH 5956.** Cooperative Education

**MATH 5973.** Professional Paper

**MATH 5983.** Thesis

**MATH 5993.** Thesis



# Department of Psychology and Philosophy

*Interim Chair: Daniel C. Miller, Ph.D., Professor*

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*Faculty: Professors R. Littlefield, D. Miller, R. Nutt, J. Sibley; Associate Professors L. Rubin, S. Stabb; Assistant Professors B. Bentz, K. DeOrnellas, K. Foster, M. Hook, D. Mollen, S. Rich, N. Smith.*

The Department of Psychology and Philosophy offers programs leading to the Bachelor of Arts, the Bachelor of Science, the Master of Arts, and the Doctor of Philosophy degrees. The department also offers a minor in psychology.

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 the Department home page at [www.twu.edu/as/psychphil](http://www.twu.edu/as/psychphil) for more 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. See the Suggested Sequence Courses for all tracks on the following pages.

The Psychology major has several general goals applicable to all tracks. They are as follows:

1. To enable students to participate in and conduct scientific investigations of behavior.
2. To expose students to a wide range of cognitive tools that are applicable to a variety of professional disciplines.
3. To prepare students to communicate effectively both orally and in writing.
4. To help students develop a comprehensive understanding of human behavior.
5. To enable students to apply psychological information in preparation for occupational fields such as counseling and case management, social work, general business, law, public safety, advertising, information technologies and marketing.
6. To provide training in research methods through coursework, apprenticeships, research teams, and independent studies.
7. To provide a broad base of knowledge upon which graduate programs can continue to build during students' advanced training.

### **Admission Requirements**

Please see Admission section of the catalog.

### **Undergraduate Degrees**

B.A. in Psychology

B.S. in Psychology

**Core Curriculum** requirements include a minimum of 42 semester credit hours and are listed in the Academic Programs section of this catalog.

## General Track in Psychology

*Bachelor of Arts or Bachelor of Science (for B.S. Degree: replace each Foreign Language with a Natural Science with Lab)*

### FIRST YEAR

PSY 1013 Intro to General Psychology Natural Science w/Lab (3-4 hrs)	PSY 1603 Development Psychology Natural Science w/Lab (3-4 hrs)
ENG 1013	PSY 3013. Professional Dev. in Psy
HIST 1013	ENG 1023
MATH (3)	MATH (3)
(15)	(15)

### SECOND YEAR

Eng Literature (3)	PSY 3303 Statistics
GOV 2013	Foreign Language (3)
HIST 1023	GOV 2023
Multicultural Course (3)	Computer Literacy CSCI 1403,
Foreign Language (3)	2433, or other computer course
(15)	PSY 3513 Abn Psy (15)

### THIRD YEAR

PSY 3354 Exp Psy <b>OR</b> PSY 3943 Tests/Meas	PSY 3023 Social, 4153 Couns <b>OR</b> 4173 Fam Psy
Women's Studies (3)	Sociology (3)
PHIL 2033	SPCH 1013
Fine Arts (3)	Minor or Elective (3)
Minor or Elective (3)	PSY 3163/3161 Behavior Therapy w/Lab (4) <b>OR</b> PSY 4103/4101 Psy of Learn & Cog w/Lab (4)
(15)	(16)

### FOURTH YEAR

PSY 4763 Field Exp <b>OR</b> PSY 4953 Co Op	PHIL 3053, 3073, or 3083
Advanced Psychology (3)	Advanced Psychology (3)
Minor or Elective (3)	Advanced Psychology (3)
Minor or Elective (3)	Minor or Elective (3)
Minor or Elective (3)	Minor or Elective (3)
Minor or Elective (3)	
(18)	(15)

**Total: 124**

**NOTE:** If you plan to attend graduate school, we **strongly** recommend you take the following:

- (1) PSY 4113, 4133 and 3943 for advanced psychology electives;
- (2) PSY 4101/4103; and
- (3) PSY 3354

Two of the Advanced Psychology requirements must be organized courses; therefore, PSY 4913 may only be used once for Advanced Psychology.

Total credit hours required = **Minimum of 124 hours**

Total advanced hours = **Minimum of 36 hours**

**A Suggested Course Sequence for the:  
Bachelor of Science in Psychology**  
*Preparation for Accelerated Master's in Occupational Therapy*

**FIRST YEAR**

**Fall**

PSY 1013 Intro to General Psychology  
HIST 1013 History of U.S. 1492-1865  
ENG 1013 Composition  
MATH 1703 Elem. Statistics I  
GOV 2013 U.S. Govt.

(15)

**Spring**

PSY 1603 Development Psychology  
HIST 1023 Hist. of U.S. 1865-present  
ENG 1023 Composition  
PHIL 2033 Logic  
GOV 2023 Texas Govt.  
SPCH 1013

(18)

**SECOND YEAR**

**Fall**

PSY 3303 Statistics  
PSY 3633 Adolescent  
PSY 3013 Professional Dev. in Psy.  
PSY 3513 Abnormal Psychology  
PHSY 1133 Heat/Elect  
PHSY 1131 Lab  
Elective

(1)

(17)

**Spring**

PSY 4153 Counseling Psychology  
PSY 3163 Behavior Therapy  
PSY 3161 Behavior Therapy Lab  
ZOOL 2033 Human Anatomy  
ZOOL 2031 Human Anatomy Lab  
ENG Literature  
CSCI

(3)

(3)

(17)

**THIRD YEAR**

**Fall**

PSY 3023 Social Psychology  
KINES 2593 Kines & Neurophysio  
KINES 2591 Kines & Neurophy Lab  
Multicultural Course  
Fine Arts  
Women's Studies  
Elective

(3)

(3)

(3)

(1)

(17)

**Spring**

PSY (Advanced Psychology Course)(3)  
PSY 4763 Early Field Experience  
PHIL 3073 Bioethics  
ZOOL 3123 Neuro  
ZOOL 3121 Neuro Lab  
PSY 4133 Physiological Psych

(16)

**FOURTH YEAR**

**Fall**

OT Courses 12 Credit Hours

**Spring**

OT Courses 12 Credit Hours

**Total: 124**

Total credit hours required = **Minimum of 124 hours**

Total advanced hours = **Minimum of 36 hours**

**NOTE: Students MUST apply to the O.T. Graduate School in the middle of their junior year.**

**A Suggested Course Sequence for the:  
Bachelor of Science in Psychology**  
*Minor in General Science in Preparation for Master's of  
Physical Therapy*

**FIRST YEAR**

PSY 1013 Intro General Psychology	PSY 1603 Development Psychology
BIOL 1113 Principles of Biology	HIST 1023 Hist of U.S. 1865-present
BIOL 1111 Principles of Biology Lab	ENG 1023 Composition & Literature
HIST 1013 History of U.S. 1492-1865	BIOL 1123 Principles of Biology
ENG 1013 Composition & Literature	BIOL 1121 Principles of Biology Lab
MATH 1303	MATH (1313)
	PT 1011 Intro into PT
(16)	(17)

**SECOND YEAR**

English Lit.	(3)	PSY 3513 Abnormal Psychology	
CHEM 1113 Principles of Chemistry		GOV 2023 Texas Government	
CHEM 1111 Principles of Chem Lab		CHEM 1123 Principles of Chemistry	
GOV 2013 U.S. National Government		CHEM 1121 Principles of Chem Lab	
PSY 3303 Statistics		PHIL 3073 Bioethics	
PSY 3013 Professional Dev in Psy		CSCI	(3)
(16)		(16)	

**THIRD YEAR**

PSY 3633 Adolescent Psychology	PSY 3163 Behavior Therapy
PHYS 1133 Principles of Physics	PSY 3161 Lab in Behavior Therapy
PHYS 1131 Principles of Physics Lab	PSY 4153 Counseling
PT 2002 PT Science	PHYS 1143 Principles of Physics
SPCH 1013	PHYS 1141 Principles of Physics Lab
Elective	Elective
(3)	(3)
(15)	(14)

**FOURTH YEAR**

PSY 4763 Early Field Experience	ZOO 4243 Mammalian Physiology
<b>OR</b> PSY 4953 Co-Op	ZOO 4241 Mammalian Physiology Lab
PSY 4133 Physiological Psychology	Fine Arts
Women's Studies	(3)
Multicultural	Advanced Psychology
(3)	(3)
Sociology	PHIL 2033 Logic
(3)	Elective
(15)	(3)
	(16)

**Total: 125**Total credit hours required = **Minimum of 125 hours**Total advanced hours = **Minimum of 36 hours**

**A Suggested Course Sequence for the:  
Bachelor of Science in Psychology**  
*Minor in General Science in Preparation for Accelerated  
Master's in Physical Therapy*

**FIRST YEAR****Fall**

PSY 1013 Intro Gen Psy  
BIOL 1113 Prin of Bio  
BIOL 1111 Prin of Bio Lab  
HIST 1013 Hist of  
U.S.1492-1865  
ENG 1013 Comp & Lit

(16)

**Spring**

PSY 1603 Dev Psych  
BIOL 1123 Prin of Bio  
BIOL 1121 Prin of Bio Lab  
MATH (1313)  
PT 1011 Intro to PT  
PSY 3513 Abnormal Psych

(14)

**Summer**

HIST 1023 Hist of U.S.  
1865-present  
ENG 1023 Composition  
& Literature

(6)

**SECOND YEAR****Fall**

English Lit (3)  
CHEM 1113 Prin of Chem  
CHEM 1111 Prin of Chem Lab  
PSY 3303 Statistics  
PSY 3633 Adolescent Psy  
PSY 3013 Prof Dev in Psy

(16)

**Spring**

CHEM 1123 Prin of Chem  
CHEM 1121 Prin of Chem Lab  
PHIL 2033 Logic  
PHIL 3073 Bioethics  
PSY 3163 Behavior Therapy  
PSY 3161 Beh Therapy Lab  
PSY 4153 Counseling Psy

(17)

**Summer**

GOV 2023 Texas Govt  
CSCI (3)

(6)

**Apply to P.T.** - if admitted to Dallas or Houston

**THIRD YEAR****Fall**

PHYS 1131 Princ of Phy Lab  
PHYS 1133 Princ of Physics  
ZOOL 4243 Mammalian Physio  
ZOOL 4241 Mammalian Physio  
Lab  
PT 2002 PT Science  
Women's Studies (3)

(16)

**Spring**

PHYS 1143 Prin of Physics  
PHYS 1141 Prin of Phy Lab  
PSY 4763 Field Exp  
OR PSY 4953 Co-Op  
Advanced Psychology (3)  
Fine Arts (3)  
Multicultural (3)

(16)

**Summer**

GOV 2013 U.S. Govt  
SPCH 1013

(6)

**FOURTH YEAR**

PT 5015 Gross Human Anatomy  
PT 5022 Biological Princ of Disease  
PT 5024 Clinical Neuroscience  
(11)

**Total: 124**

Total credit hours required = **Minimum of 124 hours**

Total advanced hours = **Minimum of 36 hours**

## 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 and Developmental Psychology. Six hours must be elective junior and/or senior courses in psychology. Cooperative split minors are also available, wherein it is possible for a minor concentration to be divided between psychology and one other related area subject to approval by advisors in the Department of Psychology-Philosophy. However, in all cases of split minors, a minimum of 12 hours in Psychology is required.

### *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.

**PSY 3013. 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 3023. 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 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, 3513, and permission of the instructor. Three lecture hours a week. Credit: Three hours.

**PSY 3303. Applied Statistics.** Basic statistical methods: distributions, central tendency, variability, correlation, sampling techniques, and hypothesis testing. Prerequisite: PSY 1013 and 3 hours of math. 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. Prerequisite: PSY 1013, PSY 3303. Three lecture hours and two laboratory hours a week. Credit: Four hours.

**PSY 3513. 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. Prerequisites: Six hours of psychology including PSY 1013. Three lecture hours a week. Credit: Three hours.

**PSY 3633. Adolescent Psychology.** (PSYC 2307) Developmental, behavioral, and emotional aspects of adolescence; emphasis on current research, theories, issues, and problems. Prerequisites: Six hours of psychology including PSY 1013. Three lecture hours a week. Credit: Three 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 or permission of the instructor. Three lecture hours a week. Credit: Three hours.

**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, 1603 and 3303. Two lecture hours and two laboratory hours a week. Credit: Three hours.

**PSY 4003. Cross-Cultural Psychology.** Examinations of theory and paradigms of cross-cultural psychology, definitions of major cross-cultural terms, cultural identity, development models and acculturation issues, and understanding of people of all cultures and from diverse backgrounds. Prerequisites: PSY 1013, PSY 1603, PSY 3513. Three lecture hours a week. Credit: Three hours.

**PSY 4101. Psychology of Learning and Cognition Laboratory.** Laboratory and field experiences designed to illustrate concepts of learning and cognition. Corequisite: PSY 4103. Three laboratory hours a week. Credit: One hour.

**PSY 4103. Psychology of Learning and Cognition.** Survey of research in human and animal learning; emphasis on behavioral and cognitive processes of neural networks, memory, motives, problem solving, concept formation, and learning. Prerequisites: 12 hours of psychology including PSY 3303 and PSY 3354, junior standing and permission of instructor. Corequisite: PSY 4101. 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. Prerequisite: PSY 1013. 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 nine hours of psychology including PSY 1013. Three lecture hours a week. Credit: Three hours.

**PSY 4153. Counseling Theory and Practice.** Theory and practice of counseling and interviewing. Course will cover major theoretical models and techniques of interventions plus supervised practice in basic helping skills. Prerequisites: PSY 1013 and PSY 3513. or permission of instructor. 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 and junior standing or permission of instructor. 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: Junior standing and permission of supervising faculty. May be repeated twice for credit. One lecture hour and four laboratory hours a week. Credit: Three hours.

**PSY 4913. Independent Study.** 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. May be repeated once for credit. 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: PSY 3303, PSY 3354, Junior standing and permission of instructor. One lecture and one laboratory hour a week. Credit: One hour.

*Psychology Graduate Courses*

- PSY 5163. Psychology of Women
- PSY 5304. Advanced Psychological Statistics
- PSY 5353. Research Techniques
- PSY 5413. Psychological Appraisal
- PSY 5423. Cognitive Assessment
- PSY 5463. Academic Assessment and Curriculum Interventions
- PSY 5473. Social-Emotional Assessment in Children
- PSY 5501. Professional Issues in Counseling and Family Psychology
- PSY 5513. Advanced Psychopathology
- PSY 5523. Clinical Therapeutic Group Processes
- PSY 5554. Theory and Practice of Counseling and Psychotherapy
- PSY 5674. Theory and Practice of Family Psychology
- PSY 5693. Diagnosis and Treatment of Sexual Dysfunction
- PSY 5803. Introduction to School Psychology
- PSY 5843. Instructional Design Techniques
- PSY 5911. Individual Study
- PSY 5913. Individual Study
- PSY 5923. Supervised Practicum
- PSY 5963. Capstone Proficiencies
- PSY 5973. Professional Paper
- PSY 5983. Thesis
- PSY 5993. Thesis
- PSY 6103. Human Learning and Cognition
- PSY 6133. Advanced Behavioral Neuroscience
- PSY 6143. Neurodevelopmental and Genetic Disorders in Children
- PSY 6203. Multivariate Statistics
- PSY 6204. Advanced Research Design
- PSY 6213. Non-Parametric Statistics
- PSY 6223. Computer Applications in Psychology
- PSY 6233. Preschool and Low-Incidence Assessment
- PSY 6363. Research in Counseling and Family Psychology
- PSY 6383. Cross-Cultural Psychology
- PSY 6393. Psychology of Violence, Trauma, and Abuse
- PSY 6423. Psychopathology of Childhood and Adolescence
- PSY 6443. Personality Assessment for Adults
- PSY 6523. Neuropsychological Assessment Techniques I
- PSY 6533. Neuropsychological Assessment of Techniques II
- PSY 6543. Neuropsychological Intervention Strategies
- PSY 6583. Neuropsychopharmacology
- PSY 6593. Advanced Family Psychology and Systems Interventions
- PSY 6613. Advanced Child and Adolescent Psychology

- PSY 6633. Philosophical and Historical Foundations of Psychology
- PSY 6673. Therapeutic Interventions for Children and Adolescents
- PSY 6683. Professional Issues in Psychology, Counseling Psychology,  
and Family Psychology
- PSY 6703. Direct Behavioral Interventions
- PSY 6774. Foundations of Social Psychology and Personality
- PSY 6803. Seminar in Vocational Psychology
- PSY 6833. Ethics in Psychology
- PSY 6853. Supervision and Consultation in Psychology
- PSY 6863. Quality Research Method and Program Evaluation
- PSY 6903. Special Topics
- PSY 6911. Individual Study
- PSY 6913. Individual Study
- PSY 6921. Research Consultation in Psychology
- PSY 6923. Supervised Practicum
- PSY 6931. Prepracticum in Applied Psychology
- PSY 6933. Internship in Psychology
- PSY 6941. Applied Data Analysis in Psychology
- PSY 6961. Research Team
- PSY 6981. College Teaching
- PSY 6983. Dissertation
- PSY 6993. Dissertation

## Philosophy

Philosophy may be selected as a minor field of study for the Bachelor of Arts and Bachelor of Science degrees. 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.

**The letter C** preceding a course indicates that the Course Fulfills the Core Curriculum Requirement for Philosophy; **the letter M** indicates the Course as Multicultural. None of the Philosophy Courses have prerequisites.

### *Philosophy Undergraduate Courses*

**(C) 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.

**(C) 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.

**(C) PHIL 2043. 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.

**(C, M) 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.

**(C, M) 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.

**(C) 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.

**(C) 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.

**(C,M) 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.

**(C,M) 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.

**(C,M) 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.

**(C,M) 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.

**(C,M) PHIL 4033. Philosophy of Women in Western Religions.** (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.

**(C) 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.

**(C,M) 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.** Credit: Three hours.

### *Philosophy Graduate Courses*

PHIL 5913. Individual Study in Philosophy

# Department of Sociology and Social Work

*Interim Chair: James L. Williams, Ph.D., Associate Professor*

*Location: CFO 305*

*Telephone: (940) 898-2052*

*Telephone: (940) 898-2071 Social Work Practice Center: OMB 203*

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*www.twu.edu/as/socsw/*

*Assistant Professor Lisa K. Zottarelli;*

*Faculty: Associate Professors L. Marshall, M. Sadri, J.L. Williams, P. Yang;*

*Visiting Assistant Professor A. Ramirez-Ponce; Instructor A. Tilton.*

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.) Also, please visit our Department web site ([www.twu.edu/as/socsw/](http://www.twu.edu/as/socsw/)).

### **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.

Cooperative Education 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 government

tal 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.

### **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)

6 hours Literature

6 hours Foreign Language (same language)

3 hours Multicultural Studies

3 hours Visual/Performing Arts

3 hours Women's Studies

3 hours Computer Science

Total credit hours required: 124

### **Requirements for BA Degree 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

Total credit hours required: 124



## 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: attendance at a program orientation, completion of the social work program application form with approval by the social work faculty and, if the applicant has prior college hours, a grade point average of 2.5.

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 432-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 124 credit hours with 43 hours in social work courses, and 16 hours in sociology plus 3 elective hours in either social work or sociology (see below). Other required courses are Biology 1011-1012, an additional course in literature (to total 12 hours of English), Psychology 1013 and Spanish 1013 and 1023 or 6 hours American Sign Language. A grade of C or above must be earned in all required 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.

### Social Work Courses Required

- SOWK 1403. Introduction to Social Work
- SOWK 1411. Social Work Praxis Lab
- SOWK 1413. Culture, Inequality and Self
- SOWK 2413. Social Welfare as a Social Institution
- SOWK 2813. Human Behavior and the Social Environment
- SOWK 3221. Social Work Practice I Laboratory
- SOWK 3223. Social Work Practice I
- SOWK 3231. Social Work Practice II Laboratory
- SOWK 3233. Social Work Practice II
- SOWK 3241. Social Work Practice III Laboratory
- SOWK 3243. Social Work Practice III
- SOWK 4423. Senior Social Work Seminar
- SOWK 4433. Social Issues, Programs and Policies
- SOWK 4463. Social Work Integrative Seminar
- SOWK 4469. Social Work Field Practicum

### **Sociology Courses Required**

SOCI 1023. Current Social Problems or SOCI 1013. Introduction to Sociology

SOCI 3051. Social Data Analysis

SOCI 3053. Social Research

SOCI 3093. Racial and Ethnic Groups in the United States

SOCI 3163. Social Statistics

SOCI 3213. Women's Roles

Three hours selected from sociology or social work courses listed in this catalog.

### **Requirements for a BSW Degree in Social Work (including core curriculum)**

6 hours History

6 hours Political Science

6 hours Composition

3 hours Mathematics (MATH 1703 is preferred)

6 hours Science (BIOL 1011, 1012, 1021, 1022)

6 hours Literature

3 hours Visual/Performing Arts

3 hours Social/Behavioral Science (PSY 1013)

6 hours Foreign Language (Spanish or American Sign Language)

3 hours Multicultural (SOCI 3093)

3 hours Women's Studies (SOCI/WS 3213)

**Additional elective hours to total 124.**

## **Bachelor of Arts or Bachelor of Science Degree in Criminal Justice**

For complete 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.

## Sociology/Social Work

For a baccalaureate degree, a minor in sociology/social work requires 18 semester hours, including six advanced hours in either sociology or social work, selected from the courses listed in the general catalog. Social work courses must be selected from the following: any lower-level courses, SOWK 3413, SOWK 4433, or any social work elective.

## 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
- \* ELDR 3033. The Ethically and Culturally Different Child
- ELDR 3643. Bilingual and Bicultural Education
- \* ENG 3153. American Ethnic Literature
- ENG 4333. Introduction to the Study of World Literature
- \* FT 4083. Cultural Perspectives on Personal Appearance
- GOVT 3513. Japanese Culture and Politics
- HIST 3713. History of Texas
- HIST 3763. History of Latin America
- MCOM 3003. Race, Gender and the Media
- PSY 3833. The Psychology of African Americans
- \* 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
- \* SPCH 3202. Multicultural Communication

*Sociology Undergraduate Courses*

**SOCI 1013. Introduction to Sociology.** (SOCI 1301) Development of sociological perspective: theoretical orientations, research, and applications. Topics cover social organization, culture, socialization, institutions, population, and sources and consequences of social diversity (race/ethnicity, gender, social class, and age). Meets core curriculum requirement for Social Sciences. 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. Meets core curriculum requirement for Social Sciences. 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. Meets core curriculum requirement for Multicultural Studies. 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 in the United States. Changes in family patterns and racial, cultural and ethnic differences 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 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 the United States, its origins, development, and consequences for the society and the individual. Three lecture hours a week. Credit: Three hours.

**SOCI 3083. Population Dynamics.** Emphasizes use and interpretation of demographic data, with focus on population change and policy. Examines demographic processes and differences in sex, age, residence, racial composition, education, income of national and world populations. Three lecture hours a week. Credit: Three hours.

**SOCI 3093. Racial and Ethnic Groups in the United States.** (HUMA 2319) A sociological perspective on the dynamics of racial and ethnic group relations focusing on social structure, group interaction processes, and cultural diversity. Uses sociological-historical analysis, social theory and research. Concentrates on African Americans, Mexican Americans and recent immigrant groups. Meets core curriculum requirement for Multicultural Studies. Three lecture hours a week. Credit: Three hours.

**SOCI 3113. Juvenile Delinquency.** (SOCI 2339) 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. Meets core curriculum requirement for Multicultural Studies. 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.

**SOCI 3193. 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.

**SOCI 3213. 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. Meets core curriculum requirement for Women's Studies. 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.

**SOCI 3283. 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 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.

**SOCI 3303. 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. Meets core curriculum requirement for Multicultural Studies. 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 3483. Societies in Development.** 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. Meets core curriculum requirements for Social Sciences or Multicultural Studies. 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.

**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.** 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 4313. Correctional Counseling.** History and development of counseling in correctional settings with a focus on the role and function of the counselor. A variety of counseling techniques and therapeutic models. Professional ethics, legal constraints, and issues in the criminal justice system. 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 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. Cooperative Education.** 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. Cooperative Education.** Practical experience and supervised training in a work environment consistent with student's major and career goals. Pass-Fail grade only. Credit: Six hours.



*Sociology Graduate Courses*

- SOCI 5343. Seminar in Sociological Theory
- SOCI 5353. Methods of Teaching Sociology in College
- SOCI 5363. Survey Research
- SOCI 5373. Theory in Social Psychology
- SOCI 5443. Race, Ethnicity, and Family
- SOCI 5463. Women of Color
- SOCI 5553. Social Stratification
- SOCI 5643. Race and Ethnic Groups in the United States
- SOCI 5663. Family: Current Topics
- SOCI 5773. Qualitative Research Methods
- SOCI 5793. Community Resources and Practice
- SOCI 5813. Community Power/Change
- SOCI 5843. Feminist Theories
- SOCI 5903. Special Topics
- SOCI 5913. Individual Study
- SOCI 5953. Cooperative Education
- SOCI 5956. Cooperative Education
- SOCI 5973. Professional Paper
- SOCI 5983. Thesis
- SOCI 5993. Thesis
- SOCI 6013. The Development of American Sociology
- SOCI 6043. The Scholarly Career
- SOCI 6103. Seminar on Sociological Theory
- SOCI 6203. Seminar on Research Methods
- SOCI 6303. Seminar in Life Cycle
- SOCI 6321. Proseminar in Sociology
- SOCI 6403. Seminar on Metropolitan Community
- SOCI 6503. Seminar on Social Organization and Disorganization
- SOCI 6903. Special Topics
- SOCI 6911. Individual Study
- SOCI 6913. Individual Study
- SOCI 6983. Dissertation
- SOCI 6993. Dissertation

*Social Work Undergraduate Courses*

**SOWK 1403. Introduction to Social Work.** An exploration of the social work profession, the roles and functions of social workers, social work values, and the social work process. Concurrent enrollment for Social Work majors: 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. Prerequisite: Permission from Social Work Program Director. 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 2413. Social Welfare as a Social Institution.** Introduction to the institution of social welfare in the United States. An historical development of social welfare programs with cross-cultural emphasis. Prerequisite: SOWK 1403. 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. Prerequisites: SOWK 1413 and BIOL 1011-1012. 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. Prerequisites: All required 1000 and 2000 level courses with grade of C or above. 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. 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 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. 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. 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. Societies in Development.** 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. Field trip to U.S.-Mexico border area. Meets core curriculum requirements for Social Sciences or Multicultural Studies. Three lecture hours a week. Credit: Three hours.

**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. Concurrent enrollment: SOWK 4463-4469. 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. Prerequisite: SOWK 1403, SOWK 2413 and six additional hours of social work courses. 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 4423 and 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 4423 and 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, Ph.D., Associate Professor*

*Location: CFO 305*

*Telephone: (940) 898-2051*

*E-Mail: JWILLIAMS2@MAIL.TWU.EDU*

*[www.twu.edu/as/socsw/crimjustice.htm](http://www.twu.edu/as/socsw/crimjustice.htm)*

*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.

## **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 descriptions of required and elective courses, please see the Sociology and Social Work course descriptions (pages 284-289) and the History/Government course descriptions (pages 200-210)

### **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  
SOCI 4313. Correctional Counseling

**Requirements for BS Degree in Criminal Justice  
(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 Studies — (SOCI 3093 recommended)  
3 hours Visual/Performing Arts  
3 hours Women's Studies  
3 hours Social Science — (SOCI 1013 recommended)  
3 hours Computer Science

Total hours required: 124

**Requirements for BA Degree in Criminal Justice  
(including Core Curriculum)**

All of the above plus the following:

6 hours Foreign Language

Total hours required: 124

**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. 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

SOCI 4313. Correctional Counseling

*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



# Women's Studies Program

*Director: Claire L. Sahlin, Ph.D., Assistant Professor*

*Location: Human Development Building, 307*

*Telephone: (940) 898-2119*

*Telefax: (940) 898-2101*

*E-mail: [womenstudies@twu.edu](mailto:womenstudies@twu.edu)*

*Web site: [www.twu.edu/as/ws/](http://www.twu.edu/as/ws/)*

*Faculty: Associate Professor A. Keating; Assistant Professor C. Sahlin. Undergraduate and graduate courses are regularly taught by over thirty faculty from across the University.*

The Women's Studies Program offers an undergraduate minor, a Master of Arts degree, and a Graduate Certificate.

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, 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.

The undergraduate minor in Women's Studies (18 credit hours) is recommended for students who wish to enhance their major through multidisciplinary exploration of issues related to women, gender, and social inequalities. By minoring in Women's Studies, undergraduate students also may pursue areas of personal or professional interest. Minors are required to take WS 2013 (Women: Images and Perspectives) and five other Women's Studies courses of their choice. Most courses at the undergraduate level are cross-listed with other academic programs.

At the graduate level, the Program offers the only freestanding Master of Arts degree in Women's Studies in the Dallas/Ft. Worth region. (For further information, see the Graduate Catalog and visit the Program's web site: [www.twu.edu/as/ws/](http://www.twu.edu/as/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. Meets core curriculum requirement for Women's Studies. Three lecture hours a week. Credit: Three hours.

**WS 2013. Women: Images and Perspectives.** An interdisciplinary approach to the study of the status and role of women. Examines myths and realities of women's experience across various socioeconomic, racial, ethnic, and cultural groupings. Focuses on women in relation to themselves, to others, to institutions, and to society. Emphasis on the self as an agent of social change. Meets core curriculum requirements for Women's Studies or Multicultural Studies. Three lecture hours a week. Credit: Three hours.

**WS 2053. Women and Minorities in Engineering, Mathematics, and Science.** Same as MATH 2053. Examination of reasons why women and minorities are traditionally underrepresented in the areas of engineering, mathematics, and science and will include strategies, useful for any discipline, which emphasize solutions incorporating both current and emerging technologies. Meets core curriculum requirement for Women's Studies. Three lecture hours a week. Credit: Three hours.

**WS 2093. Women as Citizens: Women and Community Activism.** Same as GOV 2093 and HIST 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 worldwide. Emphasis on women leaders, interest groups, and movements impacting the political process. Required community service internship. Prerequisites: ENG 1013 and 1023; HIST 1013 and 1023; and either GOV 2013 or 2023. 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. Meets core curriculum requirement for Women's Studies. 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. Meets core curriculum requirement for Women's Studies. 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. Meets core curriculum requirements for Women's Studies or Multicultural Studies. Three lecture hours a week. Credit: Three hours.

**WS 3093. Women's Health Issues in the Workplace.** Same as NURS 3093 and OT 3093. Examines health issues impacting women in the work place. Analyzes historical and current factors influencing the well-being of women at work, incorporating views of feminist theorists. Studies cultural influences on choice of occupation and balance of work and home responsibilities. Three lecture hours a week. Credit: Three hours.

**WS 3133. Perspectives on Women's Health.** Same as HS 3133 and NURS 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. Meets core curriculum requirement for Women's Studies. 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. Meets core curriculum requirements for Women's Studies or Multicultural Studies. Three lecture hours a week. Credit: Three hours.

**WS 3163. The Evolving Woman.** Same as BIOL 3163 and NURS 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. Satisfies core curriculum requirements for Women's Studies or Multicultural Studies. 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. Meets core curriculum requirement for Women's Studies. 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. Meets core curriculum requirement for Women's Studies. Three lecture hours a week. Credit: Three hours.

**WS 3383. History of Women in Dance.** Same as DNCE 3383. History of women dance artists, performers and choreographers, and their contributions related to and contextualized by important events in the history of women, women's roles as art makers, and explored from a feminist perspective. Meets core curriculum requirement for Women's Studies. Three lecture hours a week. Credit: Three hours.

**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 and personal lives of women and men. Meets core curriculum requirement for Women's Studies. 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. Meets core curriculum requirements for Women's Studies or Multicultural Studies. 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. Meets core curriculum requirement for Women's Studies. 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. 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. Meets core curriculum requirements for Women's Studies or Multicultural Studies. 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. Three lecture hours a week. Credit: Three hours.

**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: 12 hours of English. May be repeated for credit when topic varies. Meets core curriculum requirements for Women's Studies. 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.

**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. Credit: Three hours.

*Women's Studies Graduate Courses*

WS 5013. Emerging Issues and Perspectives.

WS 5353. Feminist Pedagogy.

WS 5363. Feminist Epistemologies.

WS 5463. Women of Color.

WS 5663. Women's Studies Seminar.

WS 5773. Qualitative Research Methods.

WS 5843. Feminist Theories.

WS 5913. Individual Study.

WS 5973. Professional Paper.

WS 5983. Thesis.

WS 5993. Thesis.

# College of Professional Education

*Dean: April D. Miller, Ph.D., Professor*

*Location: Stoddard 202*

*Telephone: (940) 898-2202*

*Fax: (940) 898-2209*

*Website: [www.twu.edu/cope](http://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, Doctor of Education, 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 major. Academic specializations are available in reading, special education, bilingual and ESL education, early childhood education, child 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, counseling and guidance, and early childhood education.

The College of Professional Education also offers programs preparatory to teacher certification and certification for School Librarians as authorized by the State Board for Educator Certification.

## **University Teacher Education Program**

The University is committed to a strong and thorough program for the preparation of teachers.

Interdisciplinary cooperation throughout the University supports quality preparation for teachers. Each student preparing to teach in secondary school or middle school specialization areas selects a major teaching field and minors in education. Students seeking an all-level certificate select a major in the specialization area. Students preparing to teach early elementary school, middle school reading or as a middle school generalist major in interdisciplinary studies and minor in education.

The Dean and faculty of the College of Professional Education coordinate the teacher education program. Policies for teacher education are formulated by the Professional Education Council. This Council includes representatives from all academic specializations as well as from the College of Professional Education. Academic advising is available to each student from both the academic specialization and the College of Professional Education.

Proposed changes in areas and levels of Texas teaching certificates by the State Board for Educator Certification (SBEC) may result in changes in teacher education programs throughout the State. Information in this catalog reflects current programs.

All students pursuing teacher certification must achieve acceptable scores on all three sections of the Texas Higher Education Assessment (THEA) 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 3003/3001, EDUC 4004/4001, EDUC 4102 and 6 hours of student teaching.

## **Admission to Teacher Education**

Students apply for admission to the teacher education program prior to enrollment in 3000 level EDUC coursework. Applications are available in the Student Support Center for the College of Professional Education.

The requirements for admission to the Teacher Education program are as follows:

1. Successful completion of EDUC 2003 or concurrent enrollment in EDUC 2003/3003/3001.
2. Texas Higher Education Assessment (THEA) scores of at least 260 in Reading, 240 in Mathematics, and 240 in Writing.
3. An overall grade point average of not less than 2.75
4. An acceptable oral screening evaluation.

Students entering the Teacher Education program are subject to all prevailing academic and social regulations and policies of the University in



addition to those specified for the various certificate program sequences. The student also is subject to any Texas legislative action, Texas Higher Education Coordinating Board, Texas Education Agency, or State Board for Educator Certification policy that becomes effective during the lifetime of this catalog. In addition to the certificate requirements, the student must satisfy the degree requirements of the major department and the University. The teacher education advisor in each department will assist the student in meeting all requirements.

## **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;
4. Mastery of content in teaching area evidenced by corresponding content qualifying examination score of 80 or above or completion of recommending program TEXES eligibility criteria.

## **Application for Teaching Certificate (Online)**

Close to completion of their program, students will apply online for teaching certificates on the State Board for Educator Certification website.

Specific rules affect teacher certification procedures and institutional recommendation. These include:

1. No student may be admitted to an initial certificate or endorsement program based on expired state standards.
2. To be approved for a teacher's certificate, additional teaching fields, or areas of specialization, or endorsements, 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. To be approved for certification as a superintendent or other administrator, or for other certified professional positions, candidates shall be required to achieve a satisfactory level of performance on an examination prescribed by the State Board for Educator Certification.
4. 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 application for an initial credential must submit fingerprints to SBEC.

5. 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 Student Support Office 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 Texas Higher Education Assessment (THEA) scores of at least 260 in Reading, 240 in Mathematics, and 240 in Writing. 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.

## **Teaching Certificate Sequences**

Teaching certificate programs vary among departments of the University. Some programs require the Bachelor of Arts degree; others permit a student to choose either the Bachelor of Arts or the Bachelor of Science degree. In special areas, certificates are provided which permit the student to teach a special subject in all grades of the public schools.

Certificates that are approved for the preparation of teachers at TWU are indicated on the following pages. Each department will have details on specific certification requirements.

## **Standard Teacher Certificates**

### **Initial Texas Teaching Certificate**

#### **Elementary Certification Options**

EC-4 Generalist  
 EC-4 Bilingual Generalist  
 EC-4 Generalist/Special Education  
  
 4-8 Generalist  
 4-8 Bilingual Generalist  
 4-8 Generalist/Special Education  
 4-8 English Language Arts and Reading  
 4-8 Math  
 4-8 Social Studies  
 4-8 Science

#### **All-Level**

Art  
 Music  
 Physical Education  
 Education of the Deaf and Hard  
     of Hearing

#### **Supplemental Certificates**

Bilingual Education  
 English as a Second Language  
 Special Education

#### **Secondary – (grades 8-12)**

Business Administration  
 Computer Information Systems  
 Dance  
 English - Language Arts  
 Family and Consumer Sciences (6-12)  
 Health Education  
 History  
 Hospitality, Nutrition, and  
     Food Services  
 Human Development and Family  
     Sciences  
 Mathematics  
 Life Science  
 Physical Science  
 Science-Major in Biology  
 Science-Major in Chemistry  
 Social Studies  
 Theatre Arts

#### **Professional Service**

Principal  
 School Counselor  
 School Librarian  
 Superintendent  
 Reading Specialist  
 Master Math Teacher  
 Master Reading Teacher  
 Educational Diagnostician

**For Students Seeking Teacher Certification**

Students seeking teacher certification must complete the University’s core curriculum and teacher certification requirements. The following plan will enable students completing teacher certification requirements to satisfy general education requirements and the University’s core curriculum.

	<i>Semester Credit Hours</i>
History .....	6
Political Science .....	6
Composition .....	6
Mathematics .....	3
Science .....	6-8
Humanities and Fine Arts .....	6
(3 hours in literature required)	
Social/Behavioral Science .....	3
Multicultural .....	3
Women’s Studies .....	3

**Requirements for Education Minor**

**Education Minor: 20 SCH**

*Pedagogy & Professional Responsibility*

- EDUC 2003. Schools and Society
- EDUC 3001. Integrating Technology for Eff. Lrng.
- EDUC 3003. Learning Theory & Development
- EDUC 4001. Integrating Tech into Inst. & Assessment
- EDUC 4004. Design & Imp. of Instruction & Assessment
- EDUC 4102. Classroom Environment & Management
- EDUC 4\_\_6. Student Teaching

## Professional Education

### *Pedagogy and Professional Responsibility Course Descriptions*

**EDUC 2003: Schools and Society.** (EDUC 1301) 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.

**EDUC 3001. Integrating Technology for Effective Learning.**

Introduction to integrating technology in education; principles and strategies for using software and Internet tools for both teacher productivity and student learning. Internet course. Corequisite: EDUC 3003, Learning Theory and Development. Credit: One hour

**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. Three lecture hours a week. Prerequisites: EDUC 2003 or concurrent enrollment in EDUC 2003, approved admission to Teacher Education as described. Corequisite: EDUC 3001, Integrating Technology for Effective Learning. Credit: Three hours

**EDUC 4001. Integrating Technology into Instruction and Assessment.** Technology in design and delivery of instruction and assessment; uses for technology in curricula; activities that successfully model subject-area technology integration strategies. Prerequisites or co requisites: EDUC 4004, Design and Implementation of Instruction and Assessment, and EDUC 4001. EDUC 4102 may be taken with student teaching. Internet course. Credit: One hour

**EDUC 4004. 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. Mastery of PPR qualifying exam is required. Prerequisites: EDUC 2003, EDUC 3003, and EDUC 3001. Corequisite: EDUC 4001, Integrating Technology into Instruction and Assessment. Four lecture hours a week. Credit: Four hours

**EDUC 4102. Classroom Environment and Management (EC-12).** 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. Corequisites: EDUC 4004 and EDUC 4001. May be taken with student teaching. Two lecture hours a week. Credit: Two hours.

**Student Teaching.** The capstone experience of the educator preparation program is the student teaching assignment. Each candidate will assume increasing responsibility for a classroom under the guidance of a mentor teacher. Upon completion of the program, candidates will be prepared to demonstrate teaching skills and function as a professional educator over the majority of a full school term. Credit: Six hours.

# Department of Family Sciences

*Interim Chair: Glen Jennings, Ed.D., Professor*

*Location: HDB 115*

*Telephone: 940.898.2685*

*Faculty: Professors L. Chenoweth, J. Engelbrecht, G. Jennings, L. Ladd, J. Martin; Associate Professors J. Armstrong, M. Evenson, R. Fannin, L. Moore, K. Petty, S. Snider; Assistant Professors S. Adams, M. Bold, P. Bradley, L. Brock, S. Jackson, D. Karther, L. Metcalf, J. Muro.*

The Department of Family Sciences offers programs leading to the Bachelor of Science degree in Child Development, Child Development in preparation for a Master's in Occupational Therapy, Child Development in preparation for Master's 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-4 Generalist Certification program offered through Interdisciplinary Studies.

Master of Science degrees are offered in Child Development, Early Childhood Education, 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. Doctoral degrees are offered in Child Development (Ph.D.), Early Childhood Education (Ed.D.), Family Studies (Ph.D.) and Family Therapy (Ph.D.).

The Department of Family Sciences operates the Counseling and Family Development Center (CFDC) located in the Human Development Building. The CFDC 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.

Students who complete early childhood education courses in the Department of Family Sciences can earn an EC-4 degree through Interdisciplinary Studies. Successful completion of the B.S. degree in Interdisciplinary Studies degree leads to the EC-4 Generalist Certification in elementary education. Completion of the B. S. degree with a major in Family and Consumer Sciences satisfies the course requirements of Texas Education Agency for a Provisional 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 35 hours of electives with an emphasis in Occupational Therapy. Both undergraduate degrees prepare the student for their Master's in Occupational Therapy.

The Department of Family Science and School of Physical Therapy have a partnership through which students may major in Child Development while completing 36 hours of electives with an emphasis in Physical Therapy. The undergraduate degree prepares the student for entering the Master's 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 with Occupational Therapy

B.S. in Child Development with Physical Therapy

B.S. in Family 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

‡ Subject to approval – Texas Higher Education Coordinating Board

## **The Bachelor of Science Degree in Child Development (124 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) designa-



tion. 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.

### **Required Child Development Major Courses (62 hours)**

- FS 1001 Seminar in Family Sciences
- FS 1511/13 Human Development\*
- FS 1603 Child in the Family and Community
- FS 2503 Development of Infants and Toddlers
- FS 2513 Early Childhood Development
- FS 2563 Childhood Guidance
- FS 3403 Concept Development
- FS 3563 Creative Arts and Literature for Young Children
- FS 3583 Administration and Management of Early Childhood Environments
- FS 3613 Family Crisis\*
- FS 4503 Program Planning in Early Childhood
- FS 4523 Family Development\*
- FS 4533 Communication and the Family\*
- FS 4543 Developmental Sexuality\*
- FS 4583 Parenting Issues and Education\*
- FS 4603 Occupational Issues\*
- FS 4773 Family Resource Management\*
- FS 4803 Public Policy\*
- NFS 2343 Nutrition Management
- FS 4576 Supervised Teaching in Early Childhood OR
  - FS 4933 Practicum/FS 4573 Supervised Teaching AND
  - FS 4933 Practicum/FS 4573 Supervised Teaching

### **Child Development Electives (18-20 hours)**

See degree plan for more information.

### **Suggested areas of emphasis utilizing elective courses:**

\*Certified Family Life Educator includes the courses marked with an asterisk above as well as FS 3733 Family Life and Consumer Education completed as an elective.

### **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 Degree in Child Development in preparation for a Master's in Occupational Therapy (127 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 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 an application to the OT Master's program. The senior year is devoted to occupational therapy. The student graduates with a BS 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.

**Required Child Development Major Courses (47 hours)**

FS 1001 Seminar in Family Sciences

FS 1511/13 Human Development

FS 1603 Child in the Family & Community

FS 2503 Infants & Toddlers

FS 2513 Child Development

FS 2563 Childhood Guidance

FS 3403 Concept Development

FS 3563 Creative Arts & Literature for Young Child

FS 3613 Family Crisis

FS 4503 Program Planning in EC

FS 4523 Family Development

FS 4533 Communication and the Family

FS 4543 Developmental Sexuality

FS 4583 Parenting Issues & Education

FS 4773 Family Resource Management

FS 4803 Public Policy

**Emphasis in Occupational Therapy (36 hours)**

- KINS 2593/91 Kinesiology & Neurophysiology
- ZOOL 3123/21 Neuroanatomy & Neurophysiology
- PSY 3513 Abnormal Psychology
- OT 4013 Foundational Basis and Occupational Processes
- OT 4022 Wellness Through Adaptation and Occupation
- OT 4033 Analysis of Person, Tools, and Occupation
- OT 4041 Exploration of Scholarly Inquiry
- OT 4061 Observation of Adaptation in the Community
- OT 4352 Assessment in Occupational Therapy Processes
- OT 5322 Occupational Therapy Practice Models
- OT 5321 Occupational Adaptation: Birth to Adol Lab
- OT 5324 Occupational Adaptation: Birth to Adol
- OT 5332 Ways of Doing: Self-Care, Work, Play
- OT 5342 Qualitative Research Methods in OT
- OT 5361 Work, Leisure, & Daily Living

**The Bachelor of Science Degree in Child Development in Preparation for a Master's in Physical Therapy (127 hours)****General Description:**

This specialized Child Development program prepares students to earn a Master's in Physical Therapy and enter the professional arena in less time. A graduate degree is required to enter a career as a physical therapist. The professional Master's degree in physical therapy is a 26 month program. Students must meet all requirements for licensure according to State Law and must not have committed any acts which cause denial. Refer to Article 4512c, Vernon's Civil Statutes, Section 2D for such requirements for Texas. The student graduates with a B.S. in Child Development with an emphasis in Physical Therapy. Admission to the professional M.S. 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.

**Required Child Development Major Courses (47 hours)**

- FS 1001 Seminar in Family Sciences
- FS 1511/13 Human Development
- FS 1603 Child in the Family and Community
- FS 2503 Infants & Toddlers
- FS 2513 Child Development
- FS 2563 Childhood Guidance
- FS 3403 Concept Development
- FS 3563 Creative Arts & Literature for Young Child

FS 3613 Family Crisis  
FS 4503 Program Planning in EC  
FS 4523 Family Development  
FS 4533 Communication and the Family  
FS 4543 Developmental Sexuality  
FS 4583 Parenting Issues & Education  
FS 4773 Family Resource Management  
FS 4803 Public Policy

**Physical Therapy Prerequisites (36 hours)**

BIOL 1123/21 Principles of Biology/Lab  
CHEM 1113/11 Chemical Principles I/Lab  
CHEM 1123/21 Chemical Principles II/Lab  
MATH 1313 Elementary Analysis II  
MATH 1707 Elementary Statistics I **or**  
PSY 3303 Applied Statistics  
PHYS 1143/41 Principles of Physics/Lab  
PSY\_\_\_3 \_\_\_\_\_, EXCEPT statistics  
PT 1001 Orientation to the Health Professions  
PT 2002 Basic Physical Therapy Science I  
ZOOL 2043/41 Anatomy/Lab  
ZOOL 4243/41 Mammalian Physiology/Lab

**The Bachelor of Science Degree in Family and Consumer Sciences in Preparation for Composite Teacher Certification (124 hours)**

**General Description:**

The Family and Consumer Sciences 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.

Admission to Teacher Education requires successful completion of all sections of the THEA (R=260, M=240, W=240). No certification classes can be taken until the THEA requirements are met. 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 (46 hours)**

(GPA of 2.75; "C" or better required in each course)

- FS 1001 Seminar in Family Sciences
- FT 1013 Apparel Construction Techniques
- NFS 1301 Food Preparation Principles (lab)
- NFS 1302 Food Preparation Principles
- NFS 2343 Nutritional Management for Family and Child
- FS 2513 Early Childhood Development
- FS 3633 Older Persons and the 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 4713 Family Economics **OR**
- FS 4733 Family Financial Planning
- FS 4773 Family Resource Management \*
- FS 4803 Public Policy \* **OR**
- FS 4103 Issues & Trends in Family Sciences

**Related Studies (14 hours)**

(GPA of 2.75; "C" or better required in each course)

- CSCI 3002 Technology
- EDUC 4203 Learners with Exceptionalities
- FS 3513 Childhood and Adolescents
- FS 4703 Methods of Teaching FCS
- READ 3463 Comprehension and Learning Processes and Strategies

**Minor (20 hours)**

(GPA of 2.75; "C" or better required in each course)

- EDUC 2003 Legal, Ethical, Professional Role & Responsibility
- EDUC 3001 Integrating Technology for Efficient Learning
- EDUC 3003 Learning Theory & Development
- EDUC 4001 Integrating Technology into Design & Implementation of Assessment & Instruction
- EDUC 4004 Design & Implementation of Assessment & Instruction
- EDUC 4102 Classroom Environment & Management
- EDUC 4\_\_6 Student Teaching

**Electives (to complete 124 hours)**

(GPA of 2.75; “C” or better required in each course)

FS 1511/13 Human Development \*

FS 3613 Family Crisis \*

FS 3733 Family Life & Consumer Education \*

FS 4533 Communication & Family \*

**\*Certified Family Life Educator**

The B.S. in Family and Consumer Sciences 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 Family and Consumer Sciences in Preparation for Specialized Teacher Certification – Hospitality, Nutrition, and Food Science (127 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 Education.

Admission to Teacher Education requires successful completion of all sections of the THEA (R=260, M=240, W=240). No certification classes can be taken until the THEA requirements are met. 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.

**Specialized FCS Certification – Family Sciences (20 hours)**

(GPA of 2.75; “C” or better required in each course)

FS 1001 Seminar in Family Science

FS 1511/13 Human Development

FS 3513 Childhood and Adolescence

FS 3723 Field Experience in FCS Occupations

FS 4603 Occupational Issues in Family Sciences

FS 4773 Family Resource Management

FS 4703 Methods of Teaching Family Science

**Nutrition & Food Service (30 hours)**

(GPA of 2.75; “C” or better required in each course)

NFS 1301/1302 Food Preparation and Lab

NFS 2323 Introduction to Nutrition

NFS 3031 Dietetics as a Profession **OR**

NFS 3041 Food Protection Management

NFS 3033 Life Cycle

NFS 3043 Community Nutrition

NFS 3103 Advanced Nutrition **OR**

NFS 4023 Food Product Development

NFS 3321/3323 Food Science and Lab

NFS 3713/3722 Quantity Foods and Lab

NFS 3744 Food Service Systems

NFS 4101 Computer Use in Nutrition and Food Science Management

**Related Studies (15 hours)**

(GPA of 2.75; “C” or better required in each course)

BACT 2011/2013 Food Microbiology and Lab

BUS 3003 Principle of Management

CSCI 3002 Technology

EDUC 4203 Learners with Exceptionalities

READ 3463 Comprehension and Learning Processes and Strategies

**Minor (20 hours)**

(GPA of 2.75; “C” or better required in each course)

EDUC 2003 Legal, Ethical, Professional Role &amp; Responsibility

EDUC 3001 Integrating Technology for Efficient Learning

EDUC 3003 Learning Theory &amp; Development

EDUC 4001 Integrating Technology into Design & Implementation of  
Assessment & Instruction

EDUC 4004 Design &amp; Implementation of Assessment &amp; Instruction

EDUC 4102 Classroom Environment &amp; Management

EDUC 4\_\_6 Student Teaching

‡Subject to approval – Texas Higher Education Coordinating Board

**The Bachelor of Science Degree in Family and Consumer Sciences in Preparation for Specialized Teacher Certification – Human Development and Family Studies (124 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 Education.

Admission to Teacher Education requires successful completion of all sections of the THEA (R=260, M=240, W=240). No certification classes can be taken until the THEA requirements are met. 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.

### **Specialized FCS Certification – Family Sciences (41 hours)**

(GPA of 2.75; "C" or better required in each course)

- FS 1001 Seminar in Family Science
- FS 1511/13 Human Development\*
- FS 2513 Early Childhood Development
- FS 2563 Childhood Guidance
- FS 3513 Childhood and Adolescence
- FS 3633 Older Persons
- FS 3723 Field Experience in Family and Consumer Sciences Occupations
- FS 4523 Family Development \*
- FS 4533 Communication and Family \*
- FS 4583 Parenting Issues and Education \*
- FS 4603 Occupational Issues in Family Sciences \*
- FS 4773 Family Resource Management \*
- FS 4803 Public Policy\*
- FS 4703 Methods of Teaching FCS
- NFS 2343 Nutrition Management for Family and Child

### **Electives (13 hours)**

(GPA of 2.75; "C" or better required in each course)

- FS 1603 Child in the Family & Community
- FS 2503 Development of Infants and Toddlers
- FS 3403 Concept Development in Early Childhood
- FS 3563 Creative Arts & Literature for Young Children
- FS 3583 Administration & Management EC
- FS 3613 Family Crisis \*
- FS 3713 Family Housing
- FS 3733 Family Life & Consumer Education \*
- FS 4103 Issues & Trends in Family Sciences
- FS 4503 Program Planning in Early Childhood
- FS 4543 Developmental Sexuality \*
- FS 4713 Family Economics **OR**
- FS 4733 Family Financial Planning



**Related Studies (8 hours)**

(GPA of 2.75; “C” or better required in each course)

CSCI 3002 Technology

EDUC 4203 Learners with Exceptionalities

READ 3463 Comprehension and Learning Processes and Strategies

**Minor (20 hours)**

(GPA of 2.75; “C” or better required in each course)

EDUC 2003 Legal, Ethical, Professional Role & Responsibility

EDUC 3001 Integrating Technology for Efficient Learning

EDUC 3003 Learning Theory & Development

EDUC 4001 Integrating Technology into Design & Implementation of  
Assessment & Instruction

EDUC 4004 Design & Implementation of Assessment & Instruction

EDUC 4102 Classroom Environment & Management

EDUC 4\_\_6 Student Teaching

‡Subject to approval – Texas Higher Education Coordinating Board

**\*Certified Family Life Educator**

The B.S. in Family and Consumer Sciences 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 Family Studies (124 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

## 310 Family Sciences

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.

### **Required Family Sciences Major Courses:**

(GPA of 2.75; "C" or better required in each course)

- FS 1001 Seminar in Family Sciences
- FS 1511/13 Human Development\*
- FS 1603 Child in the Family and Community
- FS 2503 Development of Infants and Toddlers OR
  - FS 3513 Childhood and Adolescence
- FS 2513 Early Childhood Development
- FS 3613 Family Crisis\*
- FS 3633 Older Persons
- FS 3733 Family Life and Consumer Education\*
- FS 4103 Issues and Trends in Family Sciences
- FS 4523 Family Development\*
- FS 4533 Communication and the Family\*
- FS 4543 Developmental Sexuality\*
- FS 4583 Parenting Issues & Education\*
- FS 4603 Occupational Issues in Family Sciences\*
- FS 4713 Family Economics OR
  - FS 3713 Family Housing
- FS 4733 Family Financial Planning
- FS 4773 Family Resource Management\*
- FS 4803 Public Policy\*
- FS 4933 Practicum
- FS 4933 Practicum
- CSCI 1403 First Computing OR
  - CSCI 2433 Microcomputer Applications
- NFS 2343 Nutritional Management of Family and Child

### **Electives (15-17 hours)**

### **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 Degree in Family Studies in preparation for a Master's in Occupational Therapy (126 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.

**Required Family Studies Major Courses (47 hours)**

- FS 1001 Seminar in Family Studies
- FS 1511/13 Human Development
- FS 1603 Child in the Family & Community
- FS 3613 Family Crisis
- FS 3733 Family Life & Consumer Education
- FS 4103 Issues & Trends in Family Sciences
- FS 4523 Family Development
- FS 4533 Communication and the Family
- FS 4543 Developmental Sexuality
- FS 4583 Parenting Issues & Education
- FS 4603 Occupational Issues in Family Sciences
- FS 4713 Family Economics **OR**
- FS 3713 Family Housing
- FS 4733 Family Financial Planning
- FS 4773 Family Resource Management
- FS 4803 Public Policy
- FS 4933 Practicum

### **Emphasis in Occupational Therapy (36 hours)**

KINS 2593/91 Kinesiology & Neurophysiology  
ZOO 3123/21 Neuroanatomy & Neurophysiology  
PSY 3513 Abnormal Psychology  
OT 4013 Foundational Basis and Occupational Process  
OT 4022 Wellness Through Adaptation and Occupation  
OT 4033 Analysis of Person, Tools, and Occupations  
OT 4041 Exploration of Scholarly Inquiry  
OT 4061 Observation of Adaptation in the Community  
OT 4352 Assessment in Occupational Therapy Processes  
OT 5312 Occupational Therapy Practice Models  
OT 5322 Occupational Adaptation: Birth to Adol Lab  
OT 5324 Occupational Adaptation: Birth to Adol  
OT 5332 Ways of Doing: Self-Care, Work, Play  
OT 5342 Qualitative Research Methods in OT  
OT 5361 Work, Leisure, & Daily Living

## **Minors Available in the Department of Family Sciences**

### **Child Development Minor**

An academic minor in Child Development requires 18 semester hours of study in child development. Of these, six hours must be junior or senior level courses.

### **Education Minor**

All undergraduate students seeking initial Texas teacher certification through Texas Woman's University must complete the education minor. Required minor courses include: EDUC 2003, EDUC 3001, EDUC 3003, EDUC 4001, EDUC 4004, EDUC 4102, and EDUC 4—6.

### **Family Studies Minor**

An academic minor in Family Studies requires 18 semester hours of family studies courses. Of those, six hours must be junior or senior level courses.

### **Areas of Emphasis Utilizing Elective Courses:**

Students may use elective hours toward specialization in Administration of Child and Family Agencies or Conflict Resolution.

#### **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)

*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. Prerequisites: FS 1511 and 1513, 15 hours of directed observation and participation in varied settings. Three lecture hours a week. Credit: Three hours.

**FS 2003. Diversity in Contemporary Families.** 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 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.

**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 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 or FS 2513. Three lecture hours and one and one-half laboratory hours in an early childhood classroom 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. Family Crisis.** 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.** (TECA 1311) 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.** 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. 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.

**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. Home Interiors for Family Needs.** 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, FS 3563, and FS 3403 (one of latter two concurrently). 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 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.** 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 4936. Practicum in Family Sciences.** Supervised field experience in family sciences. Clinical and educational experiences working with families. Prerequisite: permission of instructor. Twenty clinical hours a week. Credit: Six hours.

### *Family Sciences Graduate Courses:*

FS 5003	Lifespan Human Development
FS 5023	Family Sexuality
FS 5103	Families as Consumers
FS 5113	Theories of Human Development
FS 5123	Theories of the Family
FS 5133	Family Law
FS 5143	Substance Abuse Counseling
FS 5153	Family Changes and Diversity
FS 5163	Play Therapy
FS 5173	Crisis Intervention Counseling
FS 5183	Grief and Bereavement
FS 5203	Language and Literacy in Early Childhood
FS 5213	Curriculum Development in Early Childhood
FS 5223	Child Growth and Human Development in Early Childhood
FS 5233	Communication in Marriage and Family
FS 5243	Adolescents in the Family
FS 5253	Gender Role Development
FS 5263	Observation and Assessment in Early Childhood
FS 5273	Reflections and Perspectives in Early Childhood
FS 5283	Technology and the Young Learner
FS 5303	Professional Orientation and Ethics in Counseling
FS 5313	Counseling Theory and Practice
FS 5323	Psychological Appraisal of the Individual



FS 5363	Prepracticum
FS 5373	Group Counseling Procedures
FS 5383	Counseling Children and Adolescents
FS 5393	School Guidance and Counseling Services
FS 5423	Counseling Women
FS 5443	Multicultural Counseling
FS 5453	Counseling for Career Development
FS 5493	Community Mental Health Counseling
FS 5532	Practicum in Counseling/Family Therapy
FS 5533	Parenting Education
FS 5542	Practicum in Counseling/Family Therapy: Clinical Experience
FS 5553	Principles of Marital Therapy
FS 5563	Family Therapy I
FS 5573	Family Crises
FS 5593	Play, Development, and the Young Learner
FS 5603	Aging in Families and Society
FS 5613	Child Guidance
FS 5623	Occupations and Opportunities
FS 5643	The Development of Infants and Toddlers
FS 5653	Program Planning and Development in Early Childhood
FS 5663	Leadership and Staff Development in Family Sciences Programs
FS 5673	Administration and Management of Programs for Young Children
FS 5693	Research Methods in Family Sciences
FS 5713	Housing and Families
FS 5773	Home/School/Community Partnerships
FS 5783	Issues in Early Childhood Research and Evaluation
FS 5803	Time Management for Families
FS 5823	Families and Public Policy
FS 5833	Family Economics
FS 5843	Teaching Family Sciences
FS 5853	Family Systems
FS 5883	Family of Origin
FS 5903	Special Topics
FS 5911	Individual Study
FS 5913	Individual Study
FS 5943	Special Projects in Family Sciences
FS 5961	Research in Family Sciences
FS 5963	Research in Family Sciences
FS 5973	Professional Paper
FS 5983	Thesis
FS 5993	Thesis
FS 6003	Advanced Study of the Lifespan
FS 6233	Issues in Professional Development
FS 6243	Strategies for Intervention in Family Therapy

FS 6253	Supervision in Family Therapy
FS 6403	Theory Building in Family Sciences
FS 6413	Current Research and Issues in Family Sciences
FS 6423	Readings in Family Sciences
FS 6433	Grants Writing in Family Sciences
FS 6513	Language and Cognitive Development in Young Children
FS 6532	Practicum in Family Therapy
FS 6542	Practicum in Family Therapy: Clinical Experience
FS 6563	Family Therapy II
FS 6593	Practicum in Family Sciences
FS 6623	Language in Early Childhood Classrooms
FS 6653	Seminar in Developmental Theory
FS 6663	Foundations in Early Childhood Education
FS 6693	Advanced Quantitative Research Methods in Family Sciences
FS 6793	Advanced Qualitative Research Methods in Family Sciences
FS 6863	Family Financial Counseling
FS 6903	Special Topics
FS 6911	Individual Study
FS 6913	Individual Study
FS 6921	Research in Family Sciences
FS 6923	Research in Family Sciences
FS 6941	Resources in Family Sciences
FS 6943	Resources in Family Sciences
FS 6983	Dissertation
FS 6993	Dissertation

# School of Library and Information Studies

*Chair: L. Jeng*

*Location: SH 404*

*Telephone: (940) 898-2602*

*e-mail: slis@twu.edu*

*Faculty: Professors L. Jeng, J. Huber, R. Martin, K. Swigger, S. Vardell; Assistant Professors L. Akin, K. Bray, E. Curry, J. Hilbun, J. Jacko, J. Lee, E. McElrath; Professor Emeritus B. Carter, F. Turner; Associate Professor Emeritus A. Wilkes.*

The School of Library and Information Studies administers the degree program 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 degrees in Library Science. The School Librarian Certificate prepares students for library certification in public schools in Texas. Undergraduate students who are interested in librarianship as a career are encouraged to major in a discipline such as Computer Science, Biology, History, English, Art, etc. since 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*

- LS 5003. Collection Development
- LS 5013. Information Storage and Retrieval Systems
- LS 5103. Cataloging and Classification
- LS 5143. Technical Services
- LS 5233. Multimedia Materials and Library Services
- LS 5253. Electronic Information Resources in the Health Sciences
- LS 5263. Reference
- LS 5303. The Public Library
- LS 5313. The College and University Library
- LS 5323. The Special Library
- LS 5333. School Library Media Center
- LS 5343. Youth Programs in School and Public Libraries
- LS 5363. Health Sciences Information Services
- LS 5383. Library Management
- LS 5443. Librarians as Instructional Partners
- LS 5513. Online Information Retrieval
- LS 5523. Multicultural Librarianship
- LS 5553. Electronic Information Retrieval
- LS 5573. The Internet
- LS 5603. Literature for Children and Young Adults
- LS 5613. Advanced Literature for Children
- LS 5623. Advanced Literature for Young Adults
- LS 5633. Art of Storytelling
- LS 5723. Seminar: Advanced Cataloging
- LS 5813. The Information Professions
- LS 5843. Practicum
- LS 5901. Special Topics
- LS 5903. Special Topics
- LS 5911. Individual Study

- LS 5913. Individual Study
- LS 5953. Cooperative Education
- LS 5973. Professional Paper
- LS 5983. Thesis
- LS 5993. Thesis
- LS 6001. Colloquium in Library and Information Studies
- LS 6003. Theory of Communication
- LS 6043. The Scholarly Career
- LS 6383. Research and Issues in Library Management
- LS 6403. Professional Presentations and Publishing
- LS 6623. History of Children's Literature
- LS 6633. Materials and Services for Very Young Children
- LS 6643. Nonfiction for Children and Young Adults
- LS 6753. Research Methods
- LS 6903. Special Topics
- LS 6911. Individual Study
- LS 6913. Individual Study
- LS 6983. Dissertation
- LS 6993. Dissertation

For a current list of courses visit the school's website at <http://www.twu.edu/cope/slis/course/catalog.htm>

# Department of Reading

*Interim Chair: Margaret Compton-Hall, Ed.D., Associate Professor*

*Location: Multipurpose Classroom Laboratory Building 907*

*Telephone: (940) 898-2227*

*E-mail: [reading@mail.twu.edu](mailto:reading@mail.twu.edu)*

*Fax: (940) 898-2224*

*Website: [www.twu.edu/cope/rd/](http://www.twu.edu/cope/rd/)*

*Faculty: Associate Professors N. Anderson, M. Compton-Hall, A. Simpson, N. White; Assistant Professors L. Albright, Y. Rodriguez, B. Yoon; Assistant Clinical Professor M. Caraway.*

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-4, 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 3413. Literacy Foundations EC -4.** Guidance and practice in planning and organizing for instruction in reading, writing, listening, speaking, viewing, and visually representing in early childhood through fourth grade. Reading and language arts theory, content, and methods. Prerequisite: Junior standing and meet the College of Professional Education requirements for THEA reading and writing. 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 College of Professional Education requirements for THEA reading and writing. 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 3413. Three lecture hours and one and one-half laboratory hours a week. Credit: Three hours.

**READ 3463. Comprehension and Learning Processes and Strategies.** 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 3473. Oral Language and Early Literacy.** Examines the relationship between oral language and early literacy acquisition. Factors that enable teachers to establish a context for language and literacy learning for diverse learners will be explored. Prerequisite: READ 3413. 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 understandings 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 3413 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. Three lecture hours and one and one-half laboratory hours a week. Credit: Three hours.

**READ 4463. Reading Assessment and Instruction: EC – 4.** Examines characteristics and uses of formal and informal literacy assessment tools for children in grades EC-4; strategies for incorporating results into literacy instruction; state content and performance standards for literacy; and strategies for providing in-depth intervention. Prerequisite: READ 3413. Three lecture hours and one and one-half laboratory hours a week. Credit: Three hours.

**READ 4473. Practicum: Clinical Teaching of Reading.** Diagnostic teaching of reading in a one-to-one or small group (2-4) situation with weekly staffing for student and professor, analyses of pupil reading difficulties, resources, and techniques for helping the pupil. Prerequisite: READ 3413. One lecture hour and four laboratory hours a week. Credit: Three hours.

**READ 4483. Reading and Language Arts Across the Curriculum: EC – 4.** Strategies for helping children develop skills in reading fluency, writing, and comprehension, including use of various text organizers and graphics; use of multiple sources of information and technology; and integration of content areas. Prerequisite: READ 3413. 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*

READ 5023. Literacy Development I: Grades EC-4  
 READ 5033. Literacy Development II: Grades EC-4  
 READ 5043. Literacy Development I: Grades 4-8  
 READ 5053. Literacy Development II: Grades 4-8  
 READ 5063. Literacy Teaching and Learning in Secondary Grades:  
     Practice and Theory I  
 READ 5073. Literacy Teaching and Learning in Secondary Grades:  
     Practice and Theory II  
 READ 5423. Literacy Development: EC-12  
 READ 5433. Teaching Reading in the Secondary School  
 READ 5443. Literacy Assessment and Instruction  
 READ 5453. Processes and Strategies for Comprehending Texts  
 READ 5463. Practicum in Literacy: Analysis of Teaching and Mentoring  
 READ 5473. Early Detection in Reading  
 READ 5483. Early Intervention in Reading  
 READ 5493. Research in Literacy: Responsive Action in Schools  
 READ 5503. Phonological and Orthographic Language Systems in  
     Literacy Learning  
 READ 5513. Literacy and the Diverse Learner  
 READ 5523. Supervision and the Teaching of Reading  
 READ 5533. Foundations of Early Literacy  
 READ 5543. Reading in the Content Areas  
 READ 5903. Special Topics  
 READ 5911. Individual Study  
 READ 5913. Individual Study  
 READ 5923. Practicum  
 READ 5963. Seminar in Literacy Research  
 READ 5973. Professional Paper  
 READ 5983. Thesis  
 READ 5993. Thesis  
 READ 6483. Qualitative Research  
 READ 6493. Advanced Qualitative Research Design and Analysis  
 READ 6513. Observing and Responding to Young Readers  
 READ 6523. Early Literacy Intervention  
 READ 6533. Foundations for Reading:  
     Physiological and Psychological Dimensions  
 READ 6543. Theoretical Foundations: Early Literacy and  
     Early Intervention

READ 6553. College and Adult Reading  
READ 6563. Trends and Issues in Reading  
READ 6573. Reading as Related to Language  
READ 6583. Research in Reading  
READ 6593. Advanced Reading Research Design: Analysis and Evaluation  
READ 6663. Practicum  
READ 6683. Doctoral Seminar in Reading  
READ 6903. Special Topics  
READ 6911. Independent Study  
READ 6913. Independent Study  
READ 6983. Dissertation  
READ 6993. Dissertation

# Department of Teacher Education

*Chair: L. Nan Restine, Professor*

*Location: Department of Teacher Education Stoddard 108*

*Telephone: (940) 898-2271*

*Fax: (940) 898-2209 Web: <http://www.twu.edu/cope>*

*Faculty: Professors P. Dam, R. Fritsch, S. Ivie, P.J. Karr-Kidwell, C. Keefe, L. Kinnison, N. Restine, C. Thomas, M. Wiebe; Associate Professors J. Barbour, D. Cunningham, B. Lerner, J. Pemberton; Assistant Professors G. Anderson, M. Garza, C. Sanchez; Clinical Associate Professor C. Holloway; Clinical Assistant Professor T. Stiles.*

Students interested in becoming teachers in Texas should see the “College of Professional Education” section of the catalog, page 288.

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 education, special education and educational administration. The Department offers no undergraduate degrees in educational administration.

Graduate Degrees offered include: Master of Science, Master of Arts, Master of Education, Master of Arts in Teaching, Doctor of Education, 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-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 Teacher Education in the College of Professional Education section of this catalog.

## **Undergraduate Degree**

B.S. in Interdisciplinary Studies

## **Bachelor of Science— Interdisciplinary Studies**

### *General Description*

The Interdisciplinary Studies major is required for students seeking certification in Early Childhood – Grade 4, Generalist, Bilingual or Special Education, Grade 4- Grade 8 Generalist, Bilingual or Special Education, and Grade 4- Grade 8 English Language Arts and Reading. A minimum of 127 semester hours is required to obtain both the bachelor degree and recommendation for teacher certification.

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.

### **Minor in Education**

Education Minor: 20 SCH

EDUC 2003 Schools and Society

EDUC 3003 Learning Theory & Development

EDUC 3001 Integrating Technology for Effective Learning

EDUC 4004 Design & Implementation of Instruction and Assessment

EDUC 4001 Integrating Technology into Instruction and Assessment

EDUC 4102 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 4 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 Education**

The degree program in bilingual education prepares teachers to work effectively with bilingual students in a variety of settings. Students complete a degree/certification program that leads to Early Childhood – Grade 4 or Grades 4 – 8 Bilingual Generalist Certification. Oral proficiency in English and Spanish is required.

### *Undergraduate Courses*

**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 3001: Integrating Technology for Effective Learning.** Introduction to integrating technology in education; principles and strategies for using software and Internet tools for both teacher productivity and student learning. Internet course. Credit: One hour. Corequisite: EDUC 3003, Learning Theory and Development.

**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 or concurrent enrollment in EDUC 2003, approved admission to Teacher Education. Corequisite: EDUC 3001, Integrating Technology for Effective Learning.

**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.

**EDUC 3033. Language and Culture.** Examines the roles that culture, ethnicity, and language play in American society as related to learning and teaching in US public schools. Concentrates on African Americans, American Indians, Asian Americans, and Hispanic Americans. Prerequisite: Junior standing. Three lecture hours a week. Credit: Three hours.

**EDUC 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. Observation in classrooms. Three lecture hours a week. Credit: Three hours.

**EDUC 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.

**EDUC 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.

**EDUC 4001: Integrating Technology into Instruction and Assessment.** Technology in design and delivery of instruction and assessment; uses for technology in curricula; activities that successfully model subject-area technology integration strategies. Internet course. Credit: One hour. Corequisite: EDUC 4004, Design and Implementation of Instruction and Assessment

**EDUC 4004: 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. (Mastery of PPR qualifying exam is required.) Four lecture hours a week. Credit: Four hours. Prerequisites: EDUC 2003, EDUC 3003, and EDUC 3001. Corequisite: EDUC 4001, Integrating Technology into Instruction and Assessment

**EDUC 4052. Practicum in Special Education.** Supervised observation and participation in education settings for exceptional learners; application of teaching competencies. One lecture hour and ten laboratory hours a week. Credit: Two semester hours.

**EDUC 4053. Practicum in Special Education.** Supervised observation and participation in education settings for exceptional learners; application of teaching competencies. One lecture hour and twelve laboratory hours a week. Credit: Three semester hours.

**EDUC 4102: 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. Two lecture hours a week. Credit: Two hours. Prerequisites or corequisites: EDUC 4004 and EDUC 4001. May be taken with student teaching.

**EDUC 4133. 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 EDUC 4203. Credit: Three hours.

**EDUC 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.

**EDUC 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 system, social and cultural contexts, transition services and programs, and major developmental milestones. Prerequisite or corequisite: EDUC 4203. Three lecture hours and one laboratory hour a week. Credit: Three hours.

**EDUC 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: EDUC 4263. Three lecture hours and one and one-half laboratory hours a week. Credit: Three hours.

**EDUC 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 EDUC 4203. Corequisites EDUC 4253 and EDUC 3006 or EDUC 4403. Three lecture hours and one and one-half laboratory hours a week. Credit: Three hours.

**EDUC 4273. Changing Role of the General and Special Educator.** Current trends and issues in the field of special education, focusing on the role of general and special educator in a variety of settings and service provision models. Includes collaboration/consultation with family and service providers, transition services, inclusion, literacy, community service programs, and alternative placements. Prerequisite: EDUC 4423. Three lecture hours a week. Credit: Three hours.

**EDUC 4423. 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: EDUC 4203. Three lecture hours a week. Credit: Three hours.

**EDUC 4433. 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 EDUC4203. Three lecture hours a week. Credit: Three hours.

**EDUC 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

**EDUC 4723. Content Areas in the Bilingual Classroom.** Analysis of Texas public school curriculum requirements as applied to a bilingual program. Language concepts and proficiencies needed to deliver effective mathematics, social skills, and sciences instruction. Primary delivery in Spanish. Prerequisites: Junior level Spanish courses or demonstrated proficiency in Spanish. Three lecture hours a week. Credit: Three hours.

**EDCU 4913. Independent Study.** Independent study of specific problems. Prerequisite: Permission of instructor. Credit: Three hours. May be repeated for up to 12 hours of credit.

### *Graduate Courses*

- EDUC 5013. Collaboration in the Schools and Community
- EDUC 5033. Methods for Teaching Special Education
- EDUC 5053. Principles of Learning for Exceptional Children
- EDUC 5083. Alternative Assessment Strategies
- EDUC 5093. Trends and Issues in Special Education.

EDUC 5103. Developmental Disabilities  
EDUC 5113. Law, Ethics, and Professional Responsibilities  
EDUC 5123. Learning Theory, Development, and Research  
EDUC 5131. Integrating Technology in Assessment and Instruction  
EDUC 5133. Assessment and Instruction Design and Delivery for Diverse Learners  
EDUC 5142. Effective Design and Management of the Classroom Environment  
EDUC 5153. Clinical Instruction in Psychoeducational Assessment  
EDUC 5163. Inclusive Education Programming  
EDUC 5173. Diversity in the Classroom  
EDUC 5213. Individuals with Multiple and Severe Disabilities  
EDUC 5303. Students with Emotional/Behavioral Disorders  
EDUC 5313. School-Based Interventions for Students with Emotional/Behavioral Disorders  
EDUC 5323. Models and Theories for the Education of Students with Emotional/Behavioral Disorders  
EDUC 5333. Curriculum for Bilingual Education: Methods and Materials  
EDUC 5413. Teaching Reading and Other Language Arts to Linguistically Different Learners  
EDUC 5433. Language Problems of Students with Disabilities  
EDUC 5443. Individuals with Learning Disabilities  
EDUC 5453. English as a Second Language: Methods  
EDUC 5503. Survey on Giftedness and Creativity  
EDUC 5523. Models and Theories for Gifted and Talented  
EDUC 5543. Characteristics of Gifted/Talented/Creative Individuals  
EDUC 5553. Methods, Materials, Curriculum Design for Gifted/Talented  
EDUC 5603. Administration and Supervision of Special Education Programs  
EDUC 5633. Education in Culturally Diverse Environments  
EDUC 5653. Second Language Acquisition: Theories and Practices  
EDUC 5703. Special Education in Early Childhood  
EDUC 5713. Assessment and Programming for Young Children with Disabilities  
EDUC 5723. Issues and Trends in Education for Early Childhood Special Education  
EDUC 5803. Psychology of the Exceptional Child  
EDUC 5823. Tests and Measurement of the Exceptional Child  
EDUC 5843. Clinical Instruction in Intellectual Assessment  
EDUC 5903. Special Topics  
EDUC 5913. Individual Study  
EDUC 5923. Practicum  
EDUC 5933. Educational Procedures for Adolescents with Special Needs  
EDUC 5973. Professional Paper



EDUC 5983. Thesis  
 EDUC 5993. Thesis  
 EDUC 5913. Individual Study  
 EDUC 5973. Professional Paper  
 EDUC 5983. Thesis  
 EDUC 5993. Thesis  
 EDUC 6023. Practicum in the Assessment and Evaluation of Individuals  
     with Disabilities  
 EDUC 6723. Practicum  
 EDUC 6103. Social, Psychological, and Educational Aspects of Mental  
     Retardation and Developmental Disabilities  
 EDUC 6333. Seminar in Emotional and Behavioral Disorders  
 EDUC 6403. Seminar in Learning Disabilities  
 EDUC 6423. Seminar in Policies and Procedures of Special Education  
     Administration  
 EDUC 6723. Practicum  
 EDUC 6903. Special Topics: Social Constructs of Disability  
 EDUC 6911. Individual Study  
 EDUC 6913. Individual Study  
 EDUC 6983. Dissertation  
 EDUC 6993. Dissertation  
 ELDR 5003. Introduction to Educational Leadership  
 ELDR 5143. Theories of Learning and Educational Measurement  
 ELDR 5203. Research in Education  
 ELDR 5303. Seminar in Educational Issues  
 ELDR 5403. School Organization and Administration  
 ELDR 5413. Supervision in Education  
 ELDR 5423. Problems in Supervision  
 ELDR 5433. The School Principal  
 ELDR 5623. Women and Careers in Education  
 ELDR 5703. Educational Planning and Curriculum Management  
 ELDR 5713. Trends and Issues in Adult Education  
 ELDR 5723. School Business Management and Finance  
 ELDR 5823. Adult Learning and Development  
 ELDR 5893. Internship for Superintendent  
 ELDR 5903. Special Topics  
 ELDR 5911. Individual Study  
 ELDR 5913. Individual Study  
 ELDR 5923. Practicum  
 ELDR 5943. Seminar  
 ELDR 5973. Professional Paper  
 ELDR 5983. Thesis  
 ELDR 5993. Thesis

ELDR 6103. School Administration Theory and Practice  
ELDR 6113. Educational Law  
ELDR 6203. Statistics and Research Methodology I  
ELDR 6213. Statistics and Research Methodology II  
ELDR 6303. Administration of Teacher and Student Personnel  
ELDR 6403. Seminar in School Administration  
ELDR 6613. Internship for the Principal  
ELDR 6703. Research Problems in Educational Administration  
ELDR 6913. Individual Study

# College of Health Sciences

*Dean: Sally Schultz, Ph.D., Interim*

*Location: CFO 1210*

*Telephone: (940) 898-2852*

*Telefax: (940) 898-2853*

*Web: [www.twu.edu/hs/](http://www.twu.edu/hs/)*

The College of Health Sciences is organized into eight academic components including Departments of Communication Sciences and Disorders, Dental Hygiene, Health Care Administration, Health Studies, Kinesiology, Nutrition and Food Sciences, the School of Occupational Therapy, and the School of Physical Therapy. Students may pursue the degrees of Bachelor of Science, Master of Science, Doctor of Education, 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 remediation and rehabilitation of health 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 the Hearing Impaired 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 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 Dietetics and Institutional Administration
- 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

# Department of Communication Sciences and Disorders

*Chair: Alfred H. White, Jr., Ph.D., Professor*

*Location: MCL 806*

*Telephone: (940) 898-2025*

*Telefax: (940) 898-2070*

*Email: [coms@twu.edu](mailto:coms@twu.edu)*

*Web: [www.twu.edu/hs/comms](http://www.twu.edu/hs/comms)*

*Faculty: Professor D. Walker-Baston; Associate Professors A. Bird, D. Grant, K. Millay, P. Scott; Assistant Professors C. Gill, A. Lieberth; Clinical Instructors R. Abellera, S. Curtis, J. Meyer, L. Moorer, J. White.*

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 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.

### **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 (124 hours)**

### **Required Courses**

- COMS 2003. Articulatory Phonetics
- COMS 2513. Deaf Culture
- COMS 3033. Acoustic Phonetics and Perceptual Processing
- COMS 3063. Normal Speech and Language Development
- COMS 3503. Intervention Strategies for Speech Development
- COMS 3523. Audiology
- COMS 3533. Assisted Listening Strategies
- COMS 3553. Normal/Language Development in School Age Children
- COMS 3563. Intervention Strategies for Language Development
- 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 4653. Literacy Development in the Hearing Impaired

## A Suggested Sequence of Courses

### FRESHMAN YEAR

<i>First Semester</i>	<i>Second Semester</i>
ENG 1013.....3	ENG 1023.....3
HIST 1013.....3	HIST 1023.....3
GOV 2013.....3	GOV 2023.....3
Elective.....3	Mathematics.....3
Elective*.....3	Elective.....3
<u>15</u>	<u>15</u>

### SOPHOMORE YEAR

<i>First Semester</i>	<i>Second Semester</i>
Sophomore English.....3	Elective.....3
Mathematics.....3	Elective.....3
COMS 2513.....3	Science with lab.....3-4
COMS 2003.....3	COMS 3533.....3
COMS 3523.....3	COMS 3033.....3
<u>15</u>	<u>15-16</u>

### JUNIOR YEAR

<i>First Semester</i>	<i>Second Semester</i>
COMS 4223.....3	Elective.....3
COMS 3063.....3	Elective.....3
COMS 4553.....3	Elective.....3
Elective.....3	COMS 4613.....3
Women's Studies.....3	COMS 3503.....3
<u>15</u>	Science with Lab.....3-4
	<u>18-19</u>

### SENIOR YEAR

<i>First Semester</i>	<i>Second Semester</i>
COMS 4203.....3	COMS 4563 (Deaf Education).....3
COMS 4483.....3	COMS 3563.....3
COMS 3553.....3	COMS Elective.....3
COMS 4303 (SLP only).....6	COMS 4653.....3
Elective.....3	COMS 4623.....3
<u>18</u>	COMS 4101.....1
	<u>16</u>

\*Required only for students seeking Certification in deaf education.

• COMS 4223 and EDUC 2003, 3003, 3001, 4001, 4004, 4102 (14 SCH) should be taken by those seeking TEA Certification in Deaf Education.

• COMS 4303 and 6 hours of psychology should be taken by students seeking to enter the graduate program in Speech-Language Pathology

\*NOTE: Humanities and/or Visual, and/or Performing Arts (6 hours).

*Communication Sciences and Disorders Undergraduate Courses*

**COMS 2003. Introduction to Speech Science and Phonetics.** Structure and function of the vocal organs, the international phonetic alphabet, practice with broad phonetic transcription. 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 3033. Acoustic Phonetics and Perceptual Processing.** Basic acoustical properties of sound. Acoustic phonetics. Phonetic transcription of disordered speech. Speech perception. Tactile, visual and motor speech processes, suprasegmental aspects of speech and speech instrumentation. Prerequisite: COMS 2003. 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 3503. Intervention Strategies for Speech Development.** 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 2003 and 3033. 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. Intervention Strategies for Language Development.** 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. Corequisite: COMS 4201. 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 4513. Clinical Practicum II.** Assessment and management of clients with speech, language and hearing disorders in TWU Speech-Language-Hearing Clinic under supervision of ASHA-certified supervisors. Permission of Director of SLP. Eight laboratory hours a week. Credit: Three hours.

**COMS 4553. American Sign Language - I.** (SGNL 1301) 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. Three lecture hours a week. Credit: three hours.

**COMS 4563. Advanced Signed English.** 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 4613. American Sign Language - II.** (SGNL 1302) 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. 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 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 4903. Selected Topics in Communication Sciences.** Study of selected topics. Three lecture hours a week. Credit: Three hours.

**COMS 4913. Independent Study.** Individual study of specific problems. Prerequisite: Permission of instructor. Credit: Three hours.

# Department of Dental Hygiene

*Chair: Carolyn H. Ray, RDH, M.Ed., Associate Clinical Professor*

*Location: OMB 220*

*Telephone: (940) 898-2870*

*Fax: (940) 898-2869*

*www.twu.edu/hs/dh*

*email: cray@mail.twu.edu*

*Faculty: Associate Professor C. Beatty; Professor N. Glick; Assistant Clinical Professor L. Koberna; Visiting Instructor L. Spoons; Visiting Associate Professor N. Nikpour; Visiting Assistant Professor A. Teague.*

## **Accreditation Status**

The dental hygiene program at Texas Woman's University 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.

## **Degree Offered**

B.S. in Dental Hygiene

## **Admission Requirements**

Please see the Admission section of this catalog. In addition to these general requirements, the Department of Dental Hygiene has special admissions procedures.

Freshman dental hygiene majors and transfer students are required to make direct application to the Department of Dental Hygiene. The dental hygiene program has limited enrollment. Requirements for consideration of admission to the program as a sophomore student include:

- Completion of the Dental Hygiene Application Form which must be filed with the department by December 31, prior to the fall semester, sophomore year.

- Completion of an application to the University and payment of the application fee, if the applicant is a transfer student.

- Official high school transcript regardless of whether or not the applicant is currently enrolled at TWU or another college or university.

- Official college transcript(s), if applicant is a transfer student.

- Completion of at least one prerequisite science course by the time of the application deadline with a grade of C or higher. Science courses are weighted more heavily for admission.

- Completion of at least 12 hours of college credit courses in the dental hygiene degree plan by the time of the application deadline.

- A minimum cumulative grade point average of 2.8 for all college level courses.
- A grade of B or better in any freshman dental hygiene courses.
- Notification of prior enrollment in a dental hygiene program with an explanation of reason for withdrawal and a letter of recommendation from the director of that program.
- Students enrolled in the TWU Honors Program will receive a higher ranking for admission to the dental program.
- A satisfactory evaluation from the Dental Hygiene Progression Committee.
- For information about combining the Sophomore and Junior years contact the department.

The TWU Immunization Record must be completed and on file with the TWU Immunization Office by the first day of classes, fall semester, sophomore year. The immunization records must be in compliance with the TWU Immunization Office throughout enrollment in the Dental Hygiene Program. Evidence of TWU student liability insurance and a current CPR certificate must be completed and on file by 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. Results of a background check and drug screening must be submitted as needed by clinical rotation sites.

### **Academic Requirements**

These prerequisite courses: science courses, nutrition and statistics, must be passed with a C or better before progressing to junior level dental hygiene courses.

A student who has been admitted to the sophomore year of the dental hygiene program must maintain a cumulative overall grade point average (GPA) of 2.8 or higher to remain in the program. Any student whose overall GPA drops below 2.8 any semester after program admission is ineligible to continue in the program.

Students must earn a grade of B or higher in freshman dental hygiene courses and C or higher in all other required dental hygiene courses. If a student earns less than C in any other required dental hygiene course, the student will be ineligible to continue in the program regardless of the overall GPA. Dental hygiene didactic courses may not be repeated. A grade of below C in a clinical course will require a student to repeat that course.

A student who has been admitted to the sophomore year of the dental hygiene program must progress through the program in consecutive semesters. If a student does not register for the current semester of dental hygiene course work once enrolled in the program, the student will be ineligible to continue in the program and must reapply to enter a new class. An appeal process is available through a committee made up of dental hygiene faculty and the Vice President for Student Life.

The dental hygiene student should understand that due to heavy laboratory and clinic schedules, four to five full days of classes per week are required. One credit hour equals one lecture, two to three laboratory, or three to five clinic hours per week.

**Suggested Sequence of Courses\*****FRESHMAN YEAR***Fall Semester*

+CHEM 1021/1023 Org & Phys\* (+=3hrs)  
 +ENG 1013 Comp I  
 +SOCI 1413 Cult Inequality & Self  
 +HIST 1013 U.S. History I  
 DH 1101 Orientation

14 hours

*Spring Semester*

ZOOL 2031/2033 Anatomy & Phys  
 +ENG 1023 Comp II  
 +PSY 1013 Intro Psy  
 SPCH 1013  
 +BACT 1001/1003 Microbiology (+=3hrs)

17 hours

**SOPHOMORE YEAR***Fall Semester*

CSCI 2433 Micro Computer App  
 BIOL 4344 Pathophysiology  
 +GOV 2013 U.S. Government  
 DH 2101/2102 Dental Anatomy  
 DH 3163 Anat & Histo/Head & Neck

16 hours

*Spring Semester*

+HIST 1023 U.S. History II  
 +MATH 1703 Elem Statistics  
 NFS 2323 Intro to Nutrition  
 DH 2202/2201 Dental Materials  
 DH 3213 Gen & Oral Pathology

15 hours

**JUNIOR YEAR***Fall Semester*

+Visual or Performing Arts  
 DH 3172/3173 DH Technique & Practice  
 DH 3261/3253 Radiology I  
 DH 3202 Perio I  
 + Core: Women's Studies

17 hours

*Spring Semester*

DH 3221/3222 Prev Dentistry  
 DH 3206/3201 Clinic I/Seminar  
 DH 4122/4131 Perio II  
 DH 4102 Research  
 +GOV 2023 Texas Government

18 hours

**SENIOR YEAR***Fall Semester*

DH 4142 Pharmacology  
 DH 4153 Community Dental Health  
 DH 4105/4101 Clinic III/Seminar  
 DH 4112 Practicum (Fall or Spring)  
 DH 4133. Contemp. Dental Hyg. Care  
 DH 4911 Independent Study

15-17 hours

*Spring Semester*

+Literature or Philosophy  
 DH 4231 Practice Management  
 DH 4211 Ethics & Jurisprudence  
 DH 4205/4201 Clinic IV/Seminar  
 DH 4111 Practicum Seminar  
 DH 4112 Practicum (Fall or Spring)  
 DH 4151 Community Dental Health Lab

13-15 hours

+Core (42) = 42 hours; Dept. Req. (Not Core) 19 hours

DH = 64 hours

**TOTAL 125 hours**

• Must take CHEM 1011/1013 as a prerequisite, if one year of high school chemistry has not been completed and a passing score earned on the TWU placement test.

• It is recommended that prerequisite science courses be completed within five (5) years of application deadline.

## Degree-Completion Plan

The degree-completion plan leading to a Bachelor of Science degree in Dental Hygiene is designed for students who have a certificate or an associate degree from an accredited dental hygiene program. A license to practice dental hygiene in a minimum of one state in the United States is required to enter this curriculum.

The Bachelor of Science degree provides additional career opportunities for the dental hygienist in the job market. Available options include positions in community health departments, public school systems, federal and state agencies, faculty positions in dental hygiene programs, and advancement to graduate or professional school.

The degree-completion plan offers the opportunity of advancing professional knowledge and skills, combined with an optimal general education. The degree-completion student will generally receive transfer credit for most previous dental hygiene and general education course work; however, a maximum of 72 transfer hours will be accepted from a community college.

All degree plans for the degree-completion student must be individually designed. The degree plan must include completion of the following:

- All University Core Curriculum requirements for a B.S. degree.
- The University residential requirements.
- A minimum of 36 advanced hours, including 14 advanced hours in dental hygiene courses, some of which are required and some elective.
- A 7-8 hour dental hygiene track in research, clinical practice, administration/management, public health, or dental hygiene education.
- Up to 6 hours of advanced level dental hygiene course work may be obtained through cooperative education; however, only 3 hours may count toward the 14-hour dental hygiene requirement.

Applicants must submit official college transcripts of all college work completed to date, an application for the curriculum, and a copy of a current license to practice dental hygiene to the chair of the Department of Dental Hygiene. An advisement appointment will then be arranged to determine a projected degree plan.

### *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 2101. Dental Anatomy Laboratory.** Labeling and modeling of individual teeth; emphasis on the traits specific to each tooth. Corequisite DH 2102. Three laboratory hours a week. Credit: One hour.

**DH 2102. Dental Anatomy.** Primary and permanent human teeth; emphasis on root anatomy and its relation to treatment. Prerequisite: Admission to the dental hygiene program. Two lecture hours a week. Credit: Two hours.

**DH 2201. Dental Materials Laboratory.** Manipulation of dental materials, the observation of the effects of manipulation variables and the evaluation of completed products. Corequisite DH 2202. Three laboratory hours a week. Credit: One hour.

**DH 2202. Dental Materials.** Types and properties of dental materials. Prerequisite: Admission to the dental hygiene program. Two lecture hours a week. Credit: Two hours.

**DH 3163. Anatomy and Histology of the Head and Neck.** Study of the gross anatomy of the head and neck and the gross, microscopic, and embryologic study of the cells and tissues of the oral cavity, teeth, and related structures. Prerequisite: Admission to the Dental Hygiene Program. Three lecture hours a week. Credit: Three hours.

**DH 3172. Dental Hygiene Techniques and Practice.** Principles and techniques in the care of the dental hygiene patient; use and care of instruments. Prerequisite: Admission to the dental hygiene program. Two lecture hours a week. Credit: Two hours.

**DH 3173. Dental Hygiene Techniques and Practice Laboratory.** Laboratory and clinical experience in performing the complete oral prophylaxis. Corequisite DH 3172. Eight laboratory hours a week. Credit: Three hours.

**DH 3201. Dental Hygiene Clinic I Seminar.** Clinical topics of special interests for Clinic I students. Corequisite DH 3203. One lecture hour a week. Credit: One hour.

**DH 3202. Periodontics for Dental Hygienists I.** Disease involving the oral soft tissues, principally those supporting teeth; rationale for proper oral hygiene treatment procedures used in dentistry. Prerequisite: Admission to the dental hygiene program and DH 3163. Two lecture hours a week. Credit: Two hours.

**DH 3206. Dental Hygiene Clinic I.** Introduction to the clinic and the patient; development of dexterity; clinical skills. Direct clinical supervision. Prerequisite: DH 3172, 3173, 3253, and 3261. Sixteen clinic hours a week. Credit: Six hours.

**DH 3213. General and Oral Pathology.** Pathologic changes in the human body; emphasis on disease manifestations of the oral cavity. Prerequisite: Admission to the Dental Hygiene Program and DH 3163. Three lecture hours a week. Credit: Three hours.

**DH 3221. Preventive Dentistry Laboratory.** Clinical experience in providing disease control counseling, including oral hygiene, nutritional counseling, and tobacco cessation; application of sealants on extracted teeth

and on patients. Corequisite DH 3222. Two laboratory hours a week. Credit: One hour.

**DH 3222. Preventive Dentistry.** Oral disease prevention; patient education, instruction in brushing, flossing, diet control, testing procedures, and the roles of various disciplines of dentistry. Prerequisite: Admission to the dental hygiene program. Two lecture hours a week. Credit: Two hours.

**DH 3253. Dental Radiology Techniques.** Theory of basic and advanced procedures in exposing intra and extra oral radiographs. Includes safety factors when exposing, processing, mounting, and labeling radiographs. Three lecture hours a week. Credit: Three hours.

**DH 3261. Dental Radiology Techniques Laboratory.** Laboratory and clinical experience using skulls, teaching modules and humans. Four laboratory hours a week. Credit: One hour.

**DH 4101. Dental Hygiene Clinic III Seminar.** Clinical topics of special interest; emphasis on patients with special needs. Corequisite DH 4105. One lecture hour a week. Credit: One hour.

**DH 4102. Dental Hygiene Research.** Research methods and projects in scientific topics of special interest; emphasis on presenting research in written form and the preparation and presentation of research. Prerequisite: MATH 1703 or equivalent course and senior dental hygiene standing. Two lecture hours a week. Credit: Two hours.

**DH 4105. Dental Hygiene Clinic III.** Clinical skills with the dental hygiene patient; emphasis on dental hygiene services for the periodontal patient. Prerequisite: DH 3206, DH 4122, DH 4131. Sixteen clinic hours a week. Credit: Five hours.

**DH 4111. Dental Hygiene Practicum Seminar.** Familiarize the student with job opportunities of dental hygiene: public health, dental hygiene education and the various types of clinical practice. One lecture hour a week. Credit: One hour.

**DH 4112. Dental Hygiene Practicum.** Study, internship in student's interest area; may be selected in dental hygiene education, dental health education, clinical practice, community dental health, or research. Prerequisite: Senior dental hygiene standing or permission of instructor. Six hours on site a week. Credit: Two hours.

**DH 4122. Periodontics for Dental Hygienists II.** Clinical therapeutic techniques used in the treatment of periodontal disease. Corequisite: DH 4131. Two lecture hours a week. Credit: Two hours.

**DH 4113. Contemporary Dental Hygiene Care.** Study of the comprehensive dental hygiene treatment of the medically compromised patient. Three lecture hours a week. Credit: Three hours.

**DH 4131. Periodontics for Dental Hygienists II Laboratory.** Laboratory experiences designed to develop skill in recognizing and treating the periodontally involved patient. Prerequisite: DH 3202 and DH 3203 or permis



sion of the instructor. Corequisite: DH 4122. Four laboratory hours a week. Credit: One hour.

**DH 4142. Pharmacology.** Nature, use, and action of drugs used by dentists and physicians and the pharmacological relation to dental treatment, prognosis, and office emergencies. Prerequisite: Senior dental hygiene standing. Two lecture hour a week. Credit: Two hours.

**DH 4151. Community Dental Health Laboratory.** Practical laboratory and field experience applying didactic course content of DH 4153 to community and government agencies. Prerequisite DH 4153 or permission of instructor. Three laboratory hours a week. Credit: One hour.

**DH 4153. Community Dental Health.** Principles, practices and methods of dental public health, including dental health education; emphasis on the role of the dental hygienist in community dental health programs. Prerequisite: Senior dental hygiene standing. Three lecture hours a week. Credit: Three hours.

**DH 4201. Dental Hygiene Clinic IV Seminar.** Clinical topics of special interest for Clinic IV students. Corequisite DH 4204. One lecture hour a week. Credit: One hour.

**DH 4205. Dental Hygiene Clinic IV.** Clinical skills; continued emphasis on dental hygiene services for the periodontal patient and disease control. Prerequisite: DH 4105. Sixteen clinic hours a week. Credit: Four hours.

**DH 4211. Dental Ethics and Jurisprudence.** History of ethics; professional aspects; application as defined by the American Dental Association; laws, malpractice, and liability. Prerequisite: Senior dental hygiene standing. One lecture hour a week. Credit: One hour.

**DH 4231. Dental Hygiene Practice Management.** Principles of dental and dental hygiene practice management; leadership and management; management of personnel, patients, records, and work settings. Prerequisite: Senior dental hygiene standing or post certificate student. One lecture hours a week. Credit: One hour.

**DH 4311. Practicum in Clinical Practice.** Practical experience in clinical practice on an individual basis designed as a review and/or update of clinical dental hygiene skills. Prerequisite: Permission of instructor. Four clinic hours a week. Credit: One hour.

**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**

# Department of Health Care Administration

PARKLAND

*Program Director: Rob Maurer, Ph.D.*

*Location: DED 140*

*Telephone: (214) 689-6560*

*Faculty: Associate Professor P. Driscoll; Associate Professor R. Maurer.*

The mission of the graduate program in Health Care Administration at Dallas Parkland 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.

The Program maintains a World Wide Web site with additional information at the following address: (<http://www.twu.edu/hs/d-hca/>).

*Health Care Administration Graduate Courses*

- HCA 5003. Management of Health Services Organizations
- HCA 5023. Health and the Health Care System
- HCA 5033. Health Services Human Resources Management
- HCA 5043. Legal Foundations of Health Care Administration
- HCA 5053. Quantitative Methods in Health Care Administration
- HCA 5063. Financial Management for Health Care Administration
- HCA 5073. Health Care Strategic Planning and Marketing
- HCA 5113. Quality Improvement and Risk Management
- HCA 5123. Foundations of Administrative Decision Making
- HCA 5143. Critical Issues in Health Policy
- HCA 5153. Information and Decision Systems for Health Care Administrators
- HCA 5163. Long-Term Care Administration
- HCA 5183. Health Resources and Policy Analysis
- HCA 5263. Advanced Financial Management for Health Care Administration
- HCA 5903. Special Topics in Health Care Administration
- HCA 5913. Individual Study in Health Care Administration
- HCA 5933. Capstone Seminar in Health Care Administration
- HCA 5935. Residency in Health Care Administration I
- HCA 5945. Residency in Health Care Administration II
- HCA 5956. Cooperative Education
- HCA 5973. Professional Paper

# Program in Health Care Administration

HOUSTON CENTER

*Program Director: K. Moseley, Dr. PH., Professor*

*Location: HMJ 911*

*Telephone: (713) 794-2061*

*Telefax: (713) 794-2350*

*Email: gshelton@twu.edu*

*www.twu.edu/hs/h-hca*

*Faculty: Assistant Professors G. Goodman, G. Gemeinhardt.*

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.

*Health Care Administration Graduate Courses*

- HCA 5001. Concepts of Health and Disease for Administrators
- HCA 5103. Foundations of Health Services
- HCA 5111. Medical Sociology
- HCA 5193. Health Law
- HCA 5213. Managerial Communications
- HCA 5223. Organization Theory and Health Care Management
- HCA 5253. Organizational Behavior in Health Administration
- HCA 5343. Human Resources in Health Administration
- HCA 5362. Leadership and Career Development in Health Care Administration
- HCA 5372. Ethical Analysis in Health Services
- HCA 5373. Strategic Health Care Management and Planning
- HCA 5452. Statistics for Health Care Administration
- HCA 5462. Operations Analysis
- HCA 5463. Research Methods in Health Care Administration
- HCA 5472. Health Information and Management Science
- HCA 5482. Managerial Epidemiology
- HCA 5493. Performance Measurement and Quality in Health Care Administration
- HCA 5513. Financial Accounting in Health Care Administration
- HCA 5533. Management Accounting for Health Care Organizations
- HCA 5543. Health Care Finance
- HCA 5601. Microeconomics
- HCA 5623. Economics of Health Care
- HCA 5633. Health Policy Analysis
- HCA 5712. Managing the Hospital Setting
- HCA 5722. Managing the Long-Term Care Setting
- HCA 5732. Managing the Outpatient Setting
- HCA 5742. Alternative Systems of Health Care Delivery
- HCA 5752. Development of Health Facilities
- HCA 5762. Marketing for Health Services
- HCA 5772. Seminar in Finance and Accounting in Health Care Administration
- HCA 5782. Interdisciplinary Models of Health Care Delivery
- HCA 5902. Issues and Trends in Health Administration
- HCA 5911. Individual Study in Health Care Administration
- HCA 5912. Individual Study in Health Care Administration
- HCA 5932. Capstone in Health Care Administration
- HCA 5941. Fieldwork in Health Care Administration
- HCA 5942. Internship in Health Care Administration
- HCA 5951. Cooperative Education
- HCA 5973. Professional Paper/Project

# Department of Health Studies

*Interim Chair: Susan E. Ward, Ph.D., Associate Professor*

*Location: CFO 1006*

*Telephone: (940) 898-2860*

*Department Web Page: <http://www.twu.edu/hs/hs/hspage.htm>*

*Faculty: Professor Emeritus B. Tandy; Professors W. Cissell, S. Ward; Associate Professors R. Rager, R. Shipley, K.L. Wiginton; Assistant Professor A. Love; Visiting Assistant Professors D. Bates, S. Burke, J. Terrell.*

The Department of Health Studies offers programs leading to the Bachelor of Science, Master of Science, Doctor of Education 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 worksite 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 education-related needs assessment; program planning, implementation, and evaluation; acting as a resource person; coordination of health education programs and services; and communication of health information and program results. Graduates are eligible to take a national exam to become a Certified Health Education Specialist.

Students may choose from among three areas of study within the B.S. in Health Studies degree program: Community Health, Master of Occupational Therapy Degree Preparation (BS-MOT FastTrack), and Master's Degree Preparation. Health studies majors who select the Community Health area of study are generally interested in employment in a wide variety of community health settings. Those interested in working toward a master's degree in occupational therapy may select the BS-MOT FastTrack, which allows students to 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). Students who would like to pursue some other health-related master's degree program at TWU may select the Master's Degree Preparation area of study, which provides for students to enroll in master's program prerequisite coursework while completing their B.S. degree in Health Studies.

For students pursuing either the Community Health or Master's Degree Preparation areas of study, the department offers an Online B.S. in Health Studies Degree Program. This Internet-based program, in which upper-division Health Studies courses are available online, offers 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.

### **Admission Requirements**

Please see the Admission section of this catalog.

### **Undergraduate Degree**

B.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, and must attain a minimum cumulative grade point average of 2.75 in all Health Studies courses (with a minimum grade of "C" in each course). Total credit hours required:124.

**Community Health Area of Study:** Students who select the Community Health area of study must complete the following 51-52 semester credit hours in Health Studies courses, in addition to the TWU general education course requirements:

- HS 1373 Community Health
- HS 1902/1901 Fitness and Health
- HS 2013 Health Communications
- HS 3033 Medical Terminology (or pass a competency exam)
- HS 3073 Health Promotion Program Planning
- HS 3083 Program Evaluation
- HS 3413 Epidemiology
- HS 4121 Internship Preparation
- HS 4123 Internship in Health Education (4 sections)
- HS 4353 Seminar in Health Program Planning, Implementation & Evaluation

Select five courses from the following:

- HS 2373 Health Aspects of Human Sexuality
- HS 2383 Drugs and Human Health
- HS 2813 Cultural Diversity & the Health Consumer

HS 3002 Health Emergency Care, First Aid, and CPR (or show proof of certification) and HS 4911

HS 3363 History and Principles of Health Education

HS 3373 Health Promotion for the Child

HS 3403 Environmental Health and Safety Education

HS 3443 Health Aspects of Aging

HS 4363 Consumer Health

HS 4553 Stress Management

In addition, Community Health students must fulfill the following 32 semester hours of related course requirements: ZOOL 2013/2011 or ZOOL 2043/2041; ZOOL 2023/2021 Human Anatomy/Physiology; CSCI 1403; SPCH 1013; SPAN 1093/1193; NFS 2013; PSY 1013. Choose one: BUS 3003, BUS 3113, or LS 4803. Choose one: PSY 1603 or PSY 2003.

For the general education requirements, Community Health students are required to take the following courses: BACT 1003/1001; CHEM 1013/1011; HS 3133.

**Master of Occupational Therapy Degree Preparation (BS-MOT FastTrack) Area of Study:** Students who select the BS-MOT FastTrack area of study must complete the following 37-40 semester credit hours in Health Studies courses, in addition to the TWU general education course requirements:

HS 1373 Community Health

HS 1902/1901 Fitness and Health

HS 2013 Health Communication

HS 3033 Medical Terminology (or pass a competency exam)

HS 3073 Health Promotion Program Planning

HS 3083 Program Evaluation

HS 3413 Epidemiology

HS 4121 Internship Preparation

HS 4123 Internship in Health Education (2 sections)

HS 4353 Seminar in Health Program Planning, Implementation & Evaluation

Select 3 courses from the following:

HS 2373 Health Aspects of Human Sexuality

HS 2383 Drugs and Human Health

HS 2813 Cultural Diversity & the Health Consumer

HS 3363 History and Principles of Health Education

HS 3373 Health Promotion for the Child

HS 3403 Environmental Health and Safety Education

HS 3443 Health Aspects of Aging

HS 4363 Consumer Health

HS 4553 Stress Management



In addition, BS-MOT FastTrack students must fulfill the following 54-56 semester hours of related course requirements: KINS 2593/2591; NFS 2013 or NFS 2023; PSY 1013; PSY 1603; PSY 3513; SPAN 1093/1193; ZOOL 2033/2031; ZOOL 3123/3121; HS 3002 or proof of current First Aid/CPR certification; 24 semester credit hours of Occupational Therapy courses (see “Occupational Therapy”).

For the general education requirements, BS-MOT FastTrack students are required to take the following courses: BACT 1003/1001; HS 3133; MATH 1703; PHIL 3073; PHYS 1133/1131.

**Master’s Degree Preparation Area of Study:** Students who select the Master’s Degree Preparation area of study must complete coursework that will fulfill the requirements for the B.S. degree in Health Studies, in addition to the prerequisite courses required of the master’s degree program to which they intend on applying. Please contact the Health Studies Department for more information and specific master’s degree preparation course requirements.

### **Minor in Health Studies**

For those students wishing to minor in Health Studies, the following 12 hours are required: HS 1901, HS 1902, HS 1373, HS 2013, and HS 3073. The student must elect 6 additional hours from the following group: HS 2373, 2383, 2813, 3002, 3033, 3403, 3323, 3413, 3443, 4353, 4363, 4553. Eighteen (18) hours are required, six of which must be from among upper division courses.

Information concerning graduate programs in Health Studies appears in the Graduate Catalog.

### **Certification**

Secondary School Teaching Certification in Health Education is offered, requiring 124 credit hours. See College of Professional Education section of this catalog for options. Students should contact the Department Chair for details.

### *Undergraduate Courses*

**HS 1373. Community Health Education.** (PHED 1304) Introduces Community Health majors to the field of community health education including historical and theoretical foundations, professional competencies, employment areas and activities, major health problems prevalent within the U.S., and the community health models and programs used by health educators to address these problems. 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.** 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 Communication.** A survey course designed to improve use of information delivery systems in health education with special emphasis on written and verbal modalities. Utilization of evaluative tools for health programs. Laboratory experiences. Three lecture hours a week. Credit: Three hours.

**HS 2383. Drugs and Human Health.** (PHED 1346) Use and abuse of drugs; focus on psychological, physical, and social effects on personal and community health. Three lecture hours a week. Credit: Three hours.

**HS 2813. Cultural Diversity and the Health Consumer.** Ethnic and cultural influences on consumer decisions related to health services and products will be examined and discussed. Emphasis will be placed on the complexity of the issues that confront efforts to enhance the health consumption potential of minority populations. The dramatic gap between the health indices of the majority and minority populations will be analyzed. Three lecture hours a week. Credit: Three hours.

**HS 3002. Health Emergency Care, First Aid, and CPR.** (PHED 1206) Theory and practice of first aid for the injured; preventive cardiovascular health; techniques of cardiopulmonary resuscitation; opportunity to become certified as American Red Cross basic rescuer. One lecture and one laboratory hour per week. Credit: Two 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. Prerequisites: HS 1902, 1901. 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 1373, HS 1902, HS 1901, HS 2013. 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 1373, HS 1902, HS 1901, HS 2013, HS 3073. Three lecture hours a week. Credit: Three hours.

**WS/HS/NURS 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 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. Prerequisite: 1902, 1901. 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.

**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 1373, HS 1902, HS 1901, HS 2013, 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 (BS-MOT FastTrack students: 2 sections, 180 hours on site). Prerequisites: HS 1373, HS 1902/1901, HS 2013, HS 3073, HS 4121, senior classification, internship coordinator approval and a cumulative HS GPA of 2.75. Credit: Three hours.

**HS 4353. Seminar in Health Program Planning, Implementation and Evaluation.** Synthesizes theory and methods of health education needs assessment and program planning, implementation, and evaluation. The seven areas of responsibility of a health education specialist are integrated into a grant-writing project. Students finalize a professional portfolio notebook first required in HS 1373. Prerequisites: HS 1373, HS 1902, HS 1901, HS 2013, HS 3073. Co-requisite: HS 3083. 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 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 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.**

### *Health Studies Graduate Courses*

HS 5003. Practicum in Health Education

HS 5006. Practicum in Health Education

HS 5013. Data Collection and Analysis in Health Education

HS 5023. Research Methods in Health Education

HS 5053. Psychosocial Aspects of Health

HS 5063. Aging and Healthy Lifestyles

HS 5073. Seminar in Health Education

HS 5103. Principles and Methods of Teaching for Health Professionals

HS 5113. Curriculum Development for Health Professionals

HS 5343. Risk Reduction

HS 5353. Epidemiology

HS 5363. Community Health

HS 5383. Program Development and Coordination

HS 5413. Current Issues in Health Studies

HS 5423. Ethnic and Cultural Factors in Health Decisions

HS 5483. Evaluation in Health Education

HS 5563. Consumer Health

HS 5901. Special Topics

HS 5903. Special Topics

HS 5911. Individual Study

HS 5913. Individual Study  
HS 5956. Cooperative Education  
HS 5973. Professional Paper  
HS 5983. Thesis I  
HS 5993. Thesis II  
HS 6403. Health and Human Ecology  
HS 6413. Contemporary International Health  
HS 6433. History of Health and Medicine  
HS 6443. Foundations of Health Science  
HS 6453. Strategies in Health Education Delivery  
HS 6911, 6913. Individual Research  
HS 6956. Cooperative Education  
HS 6983. Dissertation I  
HS 6993. Dissertation II

# Department of Kinesiology

*Chair: Charlotte Sanborn, Ph.D., Professor*

*Location: Pioneer Hall 208*

*Telephone: (940) 898-2575*

*Faculty: Professors R. French, B. Myers, J. Pyfer, C. Sanborn; Associate Professors V. Ben-Ezra, S. Goode, Y. Kwon; Assistant Professors K. Biggerstaff, N. Burkhalter, D. Nichols; Lecturers M. Barbaree, F. Kudlac 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 and motor learning. A degree in Kinesiology leads to entry level positions in various professions such as Corporate Fitness, Cardiac Rehabilitation, Physical Education, 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 corporate fitness track. These students will take the Kinesiology core and a sequence of classroom and applied experiences in exercise related settings. Further, there is

a specialized program allowing students to meet all prerequisites required for admission to entry-level graduate programs in Physical Therapy.

The certification all-level 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. Additionally, with the teacher certification program there is an emphasis available in adapted physical education. Those students in teacher education must also have a second teaching field outside of Kinesiology and complete the required education courses. Undergraduate students may prepare for state certification in athletic training or national certification in wellness and fitness through the American College of Sports Medicine.

Each major must fulfill the general university requirements for graduation, including a minimum total of 124 semester hours. A minor area of study or a second teaching field is required. 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 and Sports Administration. For more information on the undergraduate programs in Kinesiology, please contact Dr. Sinah Goode at [sgoode@twu.edu](mailto:sgoode@twu.edu). For information on the graduate program, please contact Dr. David Nichols at [dnichols@twu.edu](mailto:dnichols@twu.edu). You can also visit the Department of Kinesiology's website at [www.twu.edu/hs/kines/](http://www.twu.edu/hs/kines/).

## **Admission Requirements**

Please see the Admission section of this catalog.

## **Undergraduate Degrees**

B.S. in Kinesiology

The following are the core requirements for each of the special emphasis in kinesiology.

## **All–Level Physical Education Certification**

### **First teaching field Kinesiology**

#### **Required courses:**

KINS 1573 Kinesiology An Evolving Discipline  
KINS 1583 Introductory Internship in Kinesiology  
KINS 1581 Fitness (Prerequisite HS 1902/1901)  
KINS 2621 Motor and Aquatic APE Instructional Lab  
KINS 2622 Adapted Physical Education  
KINS 3103 Secondary Physical Education Teaching Methods  
KINS 3592/3591 Biomechanics  
KINS 3573/3811 Developmental Movement for Elementary School  
KINS 3602/3601 Exercise Physiology  
KINS 4573 Motor Learning and Motor Development

#### **All–Level required courses:**

KINS 3633 Athletic Injury  
KINS 3643 Athletic and Fitness Program Management

Techniques: choose 3 courses. Must have approval of advisor before taking any technique course.

KINS 2031 Lifetime Sports  
KINS 2071 Racquet Sports  
KINS 2101 Basic Dance and Developmental Gymnastics Tech  
KINS 2111 Basketball and Volleyball Techniques  
KINS 2121 Softball and Soccer Techniques  
KINS 2131 Introduction to Outdoor Activities Tech,  
#KINS 4003 Low Ropes Experiential Activities

#important certification course for future teachers/coaches

Must take at least 1 practicum (strongly suggest at least 2 different coaching practicums)

\*KINS 3801/3802/3803. Practicum in Coaching (may be repeated)

\*(Prerequisite–appropriate technique class or approval of advisor before enrolling in any coaching practicum)

Second Teaching field is required. (18 hours)

**Total credit hours required: 124**



## **Adapted Physical Education Teacher Certification–Second Teaching Field In Special Education**

**Total credit hours required: 124**

### **Kinesiology Major:**

KINS 1573 Kinesiology: An Evolving Discipline  
KINS 1583 Introductory Internship in Kinesiology  
KINS 1581 Fitness Through Selected Activities (Preq HS 1902/1901)  
KINS 3592/3591 Biomechanics  
KINS 3602/3601 Exercise Physiology  
KINS 3573/3571 Development Movement for Elementary School

KINS 3633 Athletic Injury

Or

KINS 3643 Athletic and Fitness Program Management

KINS 4573 Motor Learning and Motor Development

KINS 4593 Measurement and Evaluation

KINS 4003 Low Ropes Experiential Activities

KINS 4702/4701 Exercise Testing and Prescriptions/Laboratory

Choice of 4 courses with approval from advisor

KINS 2031 Lifetime Activities

KINS 2071 Racquet Sports

KINS 2101 Basic Dance and Developmental Gymnastics Tech

KINS 2111 Basketball and Volleyball Techniques

KINS 2121 Softball and Soccer Techniques

KINS 2131 Introduction to Outdoor Activities Tech,

KINS 3811 Movement Activities for Children Internship

### **Special Education**

EDUC 4423 Char Lrn & Beh Disorders

EDUC 4433 Char MR & MH Dis

EDUC 4253 Instruction Strategies

KINS 3501 Practica in APE

KINS 2622 Adapted Physical Education (substitutes for EDUC 4203)\

KINS 2621 Motor and Aquatic APE Instruction Lab

KINS 4801 Adapted Aquatics Internship

EDUC 4273 Changing Role

- KINS 4811 Inclusion in Physical Education Internship
- KINS 4821 Motor and Physical Assessment of Individuals with Special Needs Internship

## **Corporate Fitness And Pre Physical Therapy\***

**Total credit hours required: 124**

### **Kinesiology Major:**

- KINS 1573 Kinesiology: An Evolving Discipline
- KINS 1581 Fitness (Prerequisite HS 1902/1901)
- KINS 1583 Introductory Internship in Kinesiology
- KINS 2621 Motor and Aquatic APE Instructional Lab
- KINS 2622 APE
- KINS 3592/3591 Biomechanics
- KINS 3602/3601 Exercise Physiology
- KINS 4573 Motor Learning
- KINS 4593 Measurement and Evaluation

Choose 1 from the following 7 courses:

- KINS 2031 Lifetime Sports
- KINS 2071 Racquet Sports Techniques
- KINS 2101 Basic Dance and Developmental Gymnastics Tech
- KINS 2111 Basketball and Volleyball Techniques
- KINS 2121 Softball and Soccer Techniques
- KINS 2131 Introduction to Outdoor Activities Tech,
- KINS 4003 Low Ropes Experiential Activities

### **Corporate Fitness Specialization**

- KINS 3701 Practicum in Senior Adult Fitness
- KINS 4602/4601 Advance Exercise in Physiology
- KINS 4702/4701 Exercise Testing and Prescriptions/Laboratory
- \*\*KINS 4933 Internship in Corporate Fitness
- \*\*KINS 4933 Internship in Cardiac Rehab

\*Pre Physical Therapy majors will follow the corporate fitness degree plan with additional courses to meet the prerequisite of PT.

\*\*must have a current First Aid and CPR card and a overall GPA of 2.5 with a C or better in all Kinesiology Courses (2.75 in Kinesiology).

See Department of Kinesiology for various prerequisite and support courses with each degree plan.

## 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.

### *Kinesiology Undergraduate Courses*

**KINS 1001–1441. Physical Activity Classes.** Activities in Sports, 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 1502. Practicum in Advanced Sports.** Experiences in advanced techniques and strategies. Ten laboratory hours a week. Credit: Two hours. May be repeated for additional credit.

**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. Corequisite KINS 1583 practicum. 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. Achievement of an acceptable fitness/skill standard in the coursework is required for entrance into all technique courses. Prerequisite: Kinesiology Department major or permission 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. Credit: Three hours.

**KINS 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.

**KINS 1902. Fitness and Health: Enhancing Personal Wellness.** (PHED 1338) 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. HS/KINS/NFS 1901 Fitness and Health Laboratory must be taken concurrently. Two lecture hours a week. Credit: Two hours.

**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 2023. Building Women's Leadership through Wilderness Experiences.** Explores and challenges women's relationships to nature and the environment through textual and experiential learning as influenced by a range of female perspectives. Uses critical thinking skills from both theoretical and practical perspectives, thus merging feminist theory and practice. Fosters leadership skills by connecting tangible, physical experiences in the outdoors with a thorough consideration of the existing literature. Meets core curriculum requirement for Women's Studies. Three lecture hours a week. Credit: Three hours.

**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. Prerequisite: KINS 1581. 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. Prerequisite: KINS 1581. 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 2591. Kinesiology and Neurophysiology Laboratory.** Laboratory experiences for occupational therapy majors and others enrolled in 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 2043, or BIOL 1013. 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. Taken concurrently with 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. Must be taken concurrently with KINS 2621. Two lecture hours a week. Credit: Two hours.

**KINS 3103. Secondary Physical Education Teaching Methods.** Designed to provide secondary physical education teachers will skill and knowledge to become effective teachers. Lecture, discussion, experiential activities, and field observation/experience, to gain a knowledge base of critical components and issues for teaching secondary physical education. Three lecture 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. Prerequisite KINS 2622 and 2621 or written permission of the course 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 3563. Guidance of Children Through Physical Education Activities.** Theory and practice in appraisal of motor skill, postural needs, and fitness of children; methods of teaching games, rhythmic activities, gymnastic/tumbling skills, and track/field activities. Organization and administration of physical education in the elementary school. Prerequisite: Junior standing. Three lecture hours a week. Credit: Three hours.

**KINS 3573. Developmental Movement for Children.** (PHED 1331) 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 1573/1583, KINS 3591, and KINS 3592. Three hours of lecture a week and 30 practicum hours a semester. 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 2041 and 2043 or equivalent. 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. Corequisite KINS 3601. Prerequisite Zoology 2051 and Zoology 2052. 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 2041, 2043, 2051 and 2052 or equivalent. Three lecture hours a week. Credit: Three hours.

**KINS 3643. Athletic and Fitness Program Management.** (PHED 1321/1322) The development of a fundamental understanding of program management. To recognize and understand the many intricate changes in the area of sport and fitness management through management theory, goals and methodology. 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. Prerequisites: KINS 3591, 3592, 3601, 3602, and 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. Can be taken concurrently with KINS 3602/3601. Three laboratory hours a week. Credit: One hour.

**KINS 3801. Practicum in Coaching.** Internship in specialized athletic coaching field work. Three laboratory hours a week. Credit: One hour.

**KINS 3802. Practicum in Coaching.** Internship in specialized athletic coaching field work. Six laboratory hours a week. Credit: One hour.

**KINS 3803. Practicum in Coaching.** Internship in specialized athletic coaching field work. Nine laboratory hours a week. Credit: One hour.

**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. Nine laboratory hours a week. Credit: Three hours.

**KINS 4113. Contemporary Adapted Physical Education Concepts.** Lectures on contemporary issues and internships in numerous adapted physical education and sport environments to apply concepts acquired in courses related to pedagogy, growth and development, motor learning, exercise physiology, and biomechanics. One lecture hour and six laboratory hours. 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. Credit: Three hours.

**KINS 4593. Measurement and Evaluation in Physical Education.** Evaluation procedures used by the profession; experiences in construction and administration of tests; application of basic statistical techniques required for the interpretation of results. 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 4603. 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. Corequisite: KINS 4601. Prerequisite: KINS 3602 and KINS 3601. 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. Prerequisites: successful completion of KINS 3602/3601. May be taken concurrently with 4602/4601. Must be completed prior to internship registration and must achieve a C or better in 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: successful completion of KINS 3602/3601. May be taken concurrently with 4602/4601. Must be completed prior to internship registra-



tion and must achieve a C or better to begin internships. Two lecture hours a week. Credit: Two hours.

**KINS 4801. Adapted Aquatics and Sport Internship.** Designed to provide a student with enhanced information regarding aquatics and sport for individuals with disabilities. Prerequisites: KINS 3622 and KINS 4593. 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. Prerequisite: KINS 3622. 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 3622 and KINS 4593. Three laboratory hours a week. Credit: One hour.

**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. Practicum in Exercise Science.** Internship in specialized field work in exercise science, athletic training, and related activities. Corporate fitness majors must have completed 3701 and 4702/4701. Cardiac rehabilitation majors must have completed 3701 and 4602/4601. May be repeated for credit. Nine laboratory hours a week. Credit: Three hours.

#### Graduate Courses

- KINS 5023 Methods of Research
- KINS 5033 Applied Statistical Principles
- KINS 5123 Professional Affiliation
- KINS 5133 Professional Internship for Exercise and Sports Nutrition
- KINS 5143 Group Dynamics in the Professions
- KINS 5153 Methods of Training PE in Elementary Schools
- KINS 5163 Methods of Training PE in Secondary Schools
- KINS 5173 Physical Education in Inclusive Environments
- KINS 5213 Principles for the Development of Optimal Performance
- KINS 5223 Tactics and Strategies I
- KINS 5233 Tactics and Strategies II
- KINS 5513 Mechanical Analysis of Human Motion
- KINS 5553 Advanced Exercise Physiology
- KINS 5563 Biophysiological Response During Exercise
- KINS 5573 Graded Exercise Testing
- KINS 5583 Hormonal Response During Exercise

- KINS 5603 Growth and Perceptual Motor Development
- KINS 5613 Cardiovascular Response to Exercise
- KINS 5653 Strength and Physical Fitness Development
- KINS 5663 Body Composition and Weight Management
- KINS 5681 Sports Nutrition Practicum
- KINS 5723 Role of Sport in American Society
- KINS 5763 Systematic Observation in Physical Education and Sport
- KINS 5783 Learning and Teaching Styles in Physical Education  
and Sport
- KINS 5793 Enhancing Behavior and Performance in Physical Education
- KINS 5813 Research in Kinesiology
- KINS 5843 Issues in Adapted Physical Education
- KINS 5853 Appraisal of Psychomotor Dysfunctions in Adapted Physical  
Education
- KINS 5863 Pedagogy in Adapted Physical Education
- KINS 5873 Aquatics for Special Populations
- KINS 5883 Disability and Sport
- KINS 5903 Special Topics
- KINS 5911 Individual Study
- KINS 5913 Individual Study
- KINS 5923 Administration and Service Delivery in Public School  
Adapted Physical Education
- KINS 5943 Nutrition and Exercise in the Disease State
- KINS 5973 Professional Paper or Project
- KINS 5983 Thesis
- KINS 5993 Thesis
- KINS 6043 Statistical Inference
- KINS 6103 Advanced Seminar in Group Dynamics
- KINS 6113 Seminar
- KINS 6133 Professional Internship
- KINS 6143 Research Designs in Kinesiology
- KINS 6523 Advanced Biomechanics
- KINS 6623 Biomechanical Analysis I: Motion Analysis
- KINS 6643 Biomechanical Analysis II: Data Acquisition and Instrumentation
- KINS 6811 Advanced Research in Kinesiology
- KINS 6813 Advanced Research in Kinesiology
- KINS 6853 Practicum. Appraisal in Adapted Physical Education
- KINS 6903 Special Topics
- KINS 6911 Individual Study
- KINS 6913 Individual Study
- KINS 6983 Dissertation
- KINS 6993 Dissertation

# Department of Nutrition and Food Sciences

*Chair: Carolyn Bednar, Ph.D., R.D. L.D., C.F.C.S., Professor*

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*Telefax: (940) 898-2634*

*Faculty: Denton: Professors B. Alford, C. Bednar, N. DiMarco, A. Hsueh, C. King; Associate Professors B. Grossie, V. Imrhan; Assistant Professors J. Kwon, H. Mo, D. Ryu; Associate Clinical Professor M. Rew; Houston: Professor J. Radcliffe; 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, community nutrition and public health, or consultation and private practice.

- The B.S. in Dietetics and Institutional Administration 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.
- The B.S. in Food and Nutrition in Business and Industry program allows students to pursue careers in management of foodservice systems or sales, quality assurance, or research positions in the food industry.
- The B.S. in Nutrition degree program prepares students for further professional study in the fields of medicine, dentistry, physical therapy, or nutrition research.

In addition to undergraduate programs, the department offers a dietetic internship/master's program at both the Denton campus and Houston Center. Master's degrees are available in nutrition, food science, and institutional 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 Institutional Administration and Master of Business Administration (M.B.A.).

### **Admission Requirements**

Please see the Admission section of this catalog.

### **Undergraduate Degrees**

- B.S. in Dietetics and Institutional Administration
- B.S. in Food and Nutrition in Business and Industry
- B.S. in Nutrition

## **Bachelor of Science Degree**

### **Dietetics and Institutional Administration (124 credit hours)**

In order to be admitted to upper division nutrition courses, students must have an overall GPA of 2.75 and a grade of B or better in NFS 1301, NFS 1302 and NFS 2323; and a grade of C or better in CHEM 1011, CHEM 1013, CHEM 1021 and CHEM 1023.

### **Nutrition and Food Sciences Courses Required**

- NFS 1301, 1302. Food Preparation Principles
- NFS 2323. Introduction to Nutrition
- NFS 3033. Nutrition Throughout the Life Cycle
- NFS 3043. Community Nutrition
- NFS 3101, 3103 Advanced Nutrition
- NFS 3321, 3323. Food Science
- NFS 3713, 3722. Quantity Food Production and Service
- NFS 3744. Principles of Foodservice Systems
- NFS 4101. Computer Use In Nutrition and Food Service Management
- NFS 4473. Nutrition Therapy and Education Methods
- NFS 4103. Medical Nutrition Therapy I
- NFS 4113. Medical Nutrition Therapy II
- NFS 4601. Literature in Nutrition and Food Sciences Seminar
- NFS 4701. Dietetics as a Profession

### **Other Required Courses**

- BACT 2011, 2013. Food Microbiology
- BUS 3003. Principles of Management

CHEM 1011,1013. Introductory Chemistry  
 CHEM 1021,1023. Introduction to Organic and Physiological Chemistry  
 CHEM 3603. Biological Chemistry  
 CSCI 1403. Microcomputer Applications  
 MATH 1013. Introduction to Mathematics or higher level math course  
 (not MATH 1113, 1123)  
 NFS 3173. Culture and Food  
 or SOCI 3303. Cultural Anthropology  
 PSY 1013. Introduction to Psychology  
 MATH 1703. Elementary Statistics  
 or PSY 3303. Applied Statistics  
 ZOOL 2031, 2033. Human Anatomy and Physiology

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 1301/1302 and NFS 2323 either at TWU or another college in the United States.
2. Earn a grade of "C" or better in all other DPD required courses.
3. Complete required courses in mathematics, statistics, business, chemistry, anatomy & physiology, psychology, and computer science.
4. Complete a minimum of twenty-four 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 3744; NFS 4101; NFS 4103 and NFS 4113; NFS 4473 and NFS 4701.

## **Bachelor of Science Degree**

### **Food and Nutrition in Business and Industry (124 credit hours)**

#### **Required Courses in Nutrition and Food Sciences**

NFS 1301, 1302. Food Preparation Principles  
 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 3321, 3323. Food Science  
 NFS 3713, 3722. Quantity Food Production and Service  
 NFS 3744. Principles of Foodservice Systems

NFS 4101. Computer Use in Nutrition and Food Service Management

NFS 4023. Food Product Development

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.

BACT 2011, 2013. Food Microbiology

CHEM 1011, 1013. Introductory Chemistry

CHEM 1021, 1023. Introduction to Organic and Physiological Chemistry

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.

### **Bachelor of Science Degree – Nutrition (124 credit hours)**

In order to be admitted to upper division nutrition courses, students must have an overall GPA of 2.75 and a grade of B or better in NFS 1301, NFS 1302, NFS 2323; and a grade of C or better in CHEM 1111, CHEM 1113, CHEM 1121 and CHEM 1123.

### **Required Courses in Nutrition and Food Sciences**

NFS 1301, 1302. Food Preparation Principles

NFS 2323. Introduction to Nutrition

NFS 3033. Nutrition Throughout the Life Cycle

NFS 3043. Community Nutrition

or NFS 3063. Ecology of Foods and Nutrition

NFS 3101, 3103. Advanced Nutrition

NFS 3321, 3323. Food Science

NFS 4601. Literature in Nutrition and Food Sciences Seminar

NFS 4983. Research in Nutrition and Food Sciences

NFS Electives (6 hours)

### **Other Required Courses**

CHEM 1111, 1113. Chemical Principles I

CHEM 1121, 1123. Chemical Principles II

CHEM 2211, 2213. Organic Chemistry I

CHEM 3321, 3323. Organic Chemistry II

CHEM 3613 Biochemistry

MATH 1313 Elementary Analysis  
 MATH 2014. Introduction to Calculus  
 PHYS 1131, 1133 Principles of Physics  
 ZOOL 2041, 2043. Anatomy  
 ZOOL 4243, 4241 Mammalian Physiology

### **Required Minor for B.S. in Nutrition (18 hours)**

Required minor or a concentration of prerequisites for a professional program such as medicine, dentistry or physical therapy, to include at least 6 hours at the advanced level. Suggested minors include chemistry, general science or biology.

### **Nutrition Minors:**

The following minors in Nutrition are offered to students from other departments.

#### **Nutritional Sciences Minor (for Science majors)\***

NFS 1301,1302. Principles of Food Preparation  
 NFS 2323 Introduction to Nutrition  
 NFS 3033. Nutrition Throughout the Life Cycle  
 NFS 3101/3103. Advanced Nutrition  
 NFS 4103. Medical Nutrition Therapy I  
 NFS 4113. Medical Nutrition Therapy II

\*Requires completion of at least 9 hours of chemistry including CHEM 3603 Biological Chemistry or CHEM 3613 Biochemistry.

#### **Nutrition & Food Minor (for Non-Science majors)**

NFS 1301,1302. Principles of Food Preparation  
 NFS 2013. Personal Nutrition or NFS 2323. Introduction to Nutrition  
 NFS 2343. Nutritional Management for Family and Child or NFS 3033  
 Nutrition throughout the Life Cycle.  
 Additional 9 hours of upper level NFS courses

#### **Online Food and Nutrition Minor (Non-Science majors)**

NFS 1301, 1302. Food Preparation Principles and Laboratory  
 NFS 2323. Introduction to Nutrition  
 NFS 3033. Nutrition Throughout the Life Cycle  
 NFS 3043. Community Nutrition  
 NFS 3163. Sports Nutrition  
 NFS 4903. Special Topics – Women's Health

### **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 1901. Fitness and Health Laboratory.** Activities and laboratories designed to illustrate and experience the balanced approach to fitness and health. HS/KINS/NFS1902 Fitness and Health: Enhancing Personal Wellness must be taken concurrently. Three activity/laboratory hours a week. Credit: One hour.

**NFS 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. HS/KINS/NFS 1901 Fitness and Health Laboratory must be taken concurrently. Two lecture hours a week. Credit: Two hours.

**NFS 2013. 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 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 foodborne 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 we eat. Interaction of socioeconomic and psychological factors that impact food selection and ultimately nutrition status. Prerequisite: NFS 2323 or NFS 2013. 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 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 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.

**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 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 3744. Principles of Foodservice Systems.** Management principles, strategic management, risk management, layout evaluation and equipment selection, human resource management, and financial management of foodservice systems. Prerequisites: NFS 3713, 3722 or equivalent. Four lecture hours a week. Credit: Four 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. One lecture hour preparation on the quality of the finished product. One lecture hour and six laboratory hours a week. Credit: Three hours.

**NFS 4101. Computer Use in Nutrition and Food Service Management.** Applications of computer software to nutrient analysis and management of foodservice systems. Prerequisites: CSCI 1403, NFS 2323 and NFS 3712. Three laboratory hours a week. Credit: One hour.

**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 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 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 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 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 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*

NFS 5003. Food Chemistry

NFS 5013. Sensory Evaluation of Foods

NFS 5023. Food Analysis

NFS 5033. Eating Behaviors and Eating Disorders

NFS 5043. Nutritional Aspects of Vegetarianism

NFS 5123. Food and Nutrition Issues for Educators

NFS 5133. Professional Internship for Exercise and Sports Nutrition

NFS 5303. Experimental Foods

NFS 5313. Nutrition and Human Metabolism

NFS 5321. Seminar in Food Science

NFS 5331. Seminar in Nutrition

NFS 5343. Advanced Nutritional Care

NFS 5363. Human Nutrition in Disease

NFS 5373. Food Science and Technology

NFS 5384. Assessment of Human Nutrition

NFS 5413. Nutrition and Genomics

NFS 5423. Nutrition and Gerontology

NFS 5453. Nutrition Education

NFS 5463. Food Technology

NFS 5471. Clinical Aspects of Human Nutrition

NFS 5472. Clinical Aspects of Human Nutrition

NFS 5543. Nutrition in Pregnancy and Infancy

NFS 5583. Nutrition and Exercise

NFS 5663. Body Composition and Weight Management

NFS 5681. Sports Nutrition Practicum  
NFS 5713. Human Resources Management in Nutritional Care Systems  
NFS 5721. Seminar in Institutional Administration  
NFS 5733. Productivity and Quality Improvement for Food Service Systems  
NFS 5743. Cost Analysis for Foodservice Systems  
NFS 5753. Foodservice Facility Design and Mangement  
NFS 5763. Food Safety/Foodborne Illness  
NFS 5773. Organization and Management for Foodservice Systems  
NFS 5793. Computer Applications in Institutional Administration  
NFS 5801. Advanced Counseling Strategies for Dietetic Practitioners  
NFS 5813. Internship Experience in Nutritional Care  
NFS 5833. Principles of Clinical Instruction in Nutritional Care  
NFS 5901. Special Topics  
NFS 5903. Special Topics  
NFS 5911. Individual Study  
NFS 5913. Individual Study  
NFS 5923. Research in Food Systems Management  
NFS 5953. Cooperative Education  
NFS 5956. Cooperative Education  
NFS 5961. Research in Nutrition and Food Sciences  
NFS 5963. Research in Nutrition and Food Sciences  
NFS 5973. Professional Paper  
NFS 5983. Thesis  
NFS 5993. Thesis  
NFS 6003. Food Lipids  
NFS 6013. Art and Science of Grant Development  
NFS 6113. Nutrition and Cancer  
NFS 6123. Micronutrients  
NFS 6124. Macronutrients  
NFS 6133. Drug and Nutrient Interactions  
NFS 6153. Nutritional Aspects of Trauma  
NFS 6163. Nutritional Aspects of Obesity  
NFS 6173. Professional Practicum  
NFS 6903. Special Topics  
NFS 6911. Individual Study  
NFS 6913. Individual Study  
NFS 6921. Advanced Research in Nutrition and Food Science  
NFS 6923. Advanced Research in Nutrition and Food Science  
NFS 6931. Advanced Research in Nutrition  
NFS 6933. Advanced Research in Nutrition  
NFS 6983. Dissertation  
NFS 6993. Dissertation

# School of Occupational Therapy

*Director: Sally Schultz, Ph.D., OTR, LPC, Professor*

*Denton Campus Location: MCL, 6<sup>th</sup> Floor*

*Telephone: (940) 898-2801*

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*Email: [ot@twu.edu](mailto:ot@twu.edu)*

*Internet: [www.twu.edu/ot](http://www.twu.edu/ot)*

*Faculty: **Denton:** Professor S. Schultz; Associate Professors R. Palmer; Assistant Professors E. Anderson, D. Brown, R. Estes, E. Raffin, A. Wiley; Assistant Clinical Professors J. Aven, S. Harnish, M. McClung; **Dallas:** Associate Professors R. Campbell, C. Candler; Assistant Professors M. Neville-Smith; Clinical Instructor: J. Lipoma; **Houston:** Professor J. Spencer; Associate Professors F. Baxter, O. Bowman, H. Davidson, G. Hersch; Assistant Professors J. Chan; Visiting Professor: K. Reed.*

## **Degrees Offered:**

M.O.T. (combined bachelor/masters entry-level professional degree provides eligibility for state licensure.)

M.A. post-professional degree in occupational therapy for occupational therapists with bachelors in occupational therapy

Ph.D. post-professional degree in occupational therapy for occupational therapists with a masters in OT or another field.

The **BS-MOT FastTrack** is an accelerated bachelors/masters degree, offered on the Denton campus only. It provides the necessary undergraduate and graduate study to become a licensed occupational therapist. The combined BS-MOT degree can be completed in five years of classroom coursework. Occupational therapists help people with physical, cognitive, or emotional problems to best overcome their difficulties, adapt, and lead a more meaningful life. Occupational therapists work in many settings. The most common are

hospitals, rehabilitation centers, public schools, home health, long-term care facilities, pediatric clinics and home-based early childhood therapy. In the 1960's and 70's, the profession was focused on treating neurological problems such as strokes, cerebral palsy, and spinal cord injuries. During the last 20 years, occupational therapy has regained its community focus: treating people in their homes where life occurs and on work sites where the disabilities are overcome in the real world, providing consultation to teachers for students with physical or emotional problems, overseeing rehabilitation in homeless shelters, and providing therapy in the everyday contexts in which people carry on their daily lives.

Occupational therapists assess physical, emotional, and cultural or interpersonal factors, and provide therapy that enables the patient to become more adaptive. Since many people treated by occupational therapists can not totally overcome their impairment, it is their adaptiveness that determines how well they perform the occupations that make up their life roles. The function of the occupational therapist is not to do the adapting for the patient, but to help the patient become the one who adapts himself and his world. It is not a physical or mental problem that makes one disabled, it is the inability to adapt effectively. The curriculum is organized around these beliefs.

The TWU School of Occupational Therapy is ranked 9th in the nation in graduate programs in occupational therapy by the *U.S. News and World Report-Graduate Schools* survey of the top 75 programs in the nation. TWU's program has been accredited since 1950. In 2001, the American Council for Occupational Therapy Education issued the program a ten year re-accreditation (the longest term possible). The MOT program has been taught for more than 30 years. The occupational therapy faculty have authored textbooks and chapters/sections of textbooks that are currently in wide use across the nation. These faculty are the instructors for entry-level courses as well as for the post-professional masters and doctoral occupational therapy classes.

The School of Occupational Therapy is the only educational program in Texas that offers advanced post-professional degrees. The **Master of Arts** degree, **Specialty Practice Certificates**, and **Doctor of Philosophy** provide advanced education that meets the contemporary practice needs of therapists and builds the future leaders of the profession. See the TWU Graduate Catalogue for further information on these programs.

## Overview of the BS-MOT FastTrack

Undergraduates who want to become an occupational therapist select one of the current *FastTrack* majors (child development, family studies, psychology, or health studies) for their undergraduate study. In the first three years, students can complete all the requirements for the undergraduate major, all core courses, and also complete the prerequisites required to begin study in occupational therapy. The student's fourth undergraduate year is devoted to

OT courses. Permission is granted for **BS-MOT *FastTrack*** students to enroll in graduate level OT courses in their fourth undergraduate year and count those courses toward the bachelor's degree. At the end of that year the student has completed a bachelor's degree as well as 1/2 of the classroom content required for the MOT degree. To complete the MOT degree, the student needs two more semesters of graduate course work in OT and six months of internship. With the MOT degree completed, the student may apply for the national certification exam and licensure.

### Transfer Students

Students can transfer any coursework from an accredited institution. The university determines which courses can be applied to the 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.) At that point the student should be able to begin taking OT courses. Occupational therapy advisors are available to guide course selections prior to transfer.

### Admission/Selection Process

Applicants follow standard university procedures and the requirements for whichever ***FastTrack*** major they select. At the end of the fall semester, junior year, students make application to the School of Occupational Therapy. Acceptance requirements are:

1. cumulative 3.0 GPA in both OT prerequisites and upper division courses (pre-requisite coursework can not be repeated more than once)
2. high recommendation from volunteer experience under an OTR
3. completion of all necessary course work
4. interview with occupational therapy faculty and writing proficiency exam

### Sample Degree Plans

The following degrees plans illustrate a recommended progression of course work in each of the BS-MOT ***FastTracks***. You will note differences between the plans. This is because different content is taught in each ***FastTrack*** major. Students can complete the first three years on a part-time basis as desired. However, the senior year and the remaining MOT coursework must be completed on a full-time basis. Part-time study is avoided because it compromises the learning experience of the student and ultimate therapeutic potential. The OT curriculum is necessarily progressive and integrative from one semester to the next.

## BS-MOT Child Development Major - (Fast track) in Occupational Therapy

The semester prior to completing the core and major courses, the student applies to the School of Occupational Therapy. If accepted, the final year of BS studies consists of only OT courses. Note: An additional year of OT courses and 6 months of fieldwork complete the MOT degree.

<b>Core</b>	<b>Major: Child Development**</b>
<b>English 1013</b>	<b>FS 1001</b> Seminar in Family Sciences
<b>English 1023</b>	<b>FS 1513</b> Human Development
<b>History 1013</b>	<b>FS 1511</b> Human Development Lab
<b>History 1023</b>	<b>FS 1603</b> Child in the Family and Community
<b>Gov 2013</b>	<b>FS 2503</b> Infants and Toddlers
<b>Gov 2023</b>	<b>FS 2513</b> Early Childhood Development
<b>Visual/Perf Arts 3 credit hours</b>	<b>FS 2563</b> Childhood Guidance
<b>Literature, philosophy, language/literature and cultural studies - 3 credit hours</b>	<b>FS 3403</b> Concept Development
	<b>FS 3563</b> Creative Arts & Lit. Yg Child
<b>Math 1703*</b>	<b>FS 3613</b> Family Crisis
<b>Psych 1013*</b>	<b>FS 4503</b> Program Planning in EC
<b>Psych 3513*</b>	
<b>Zool 2033/31*</b>	<b>FS 4523</b> Family Development
<b>Zool 3123/21</b>	<b>FS 4533</b> Communication and the Family
<b>Phys 1133/31*</b>	<b>FS 4543</b> Developmental Sexuality
<b>Kines 2593/91(Taken prior to Zool 3123/21)*</b>	<b>FS 4583</b> Parenting Issues and Education
<b>FS 2003</b>	<b>FS 4773</b> Family Resource Management
<b>Women's Studies 3 credit hours</b>	<b>FS 4803</b> Public Policy: Family
<b>Occupational Therapy: 25 credit hours in the final year</b> (all core and major courses must be completed before beginning the OT courses)	
<b>Total Credit hours for Fast Track B.S. in Child Development: 127</b>	

\*Satisfies core course requirements and is also a pre-requisite for OT.

\*\* Check the Child Development website for updated rotation schedule.



## BS-MOT Family Studies Major - (Fast track) in Occupational Therapy

The semester prior to completing the core and major courses, the student applies to the School of Occupational Therapy. If accepted, the final year of BS studies consists of only OT courses. Note: An additional year of OT courses and 6 months of fieldwork will complete the MOT degree.

<b>Core</b>	<b>Major: Family Studies**</b>
<b>English 1013</b>	<b>FS 1001</b> Seminar in Family Sciences
<b>English 1023</b>	<b>FS 1513/11</b> Human Development
<b>History 1013</b>	<b>FS 1603</b> Child in the Family and Community
<b>History 1023</b>	<b>FS 3613</b> Family Crisis
<b>Gov 2013</b>	<b>FS 3733</b> Curriculum & Instruction
<b>Gov 2023</b>	<b>FS 4103</b> Issues & Trends in FS
<b>Visual/Perf Arts 3 credit hours</b>	<b>FS 4523</b> Family Development
<b>Literature, philosophy, modern or classical language/literature and cultural studies - 3 credit hours</b>	<b>FS 4533</b> Communication and the Family <b>FS 4543</b> Developmental Sexuality
<b>Math 1703*</b>	<b>FS 4583</b> Parenting Issues & Education
<b>Psych 1013*</b> <b>Psych 3513*</b>	<b>FS 4603</b> Occupational Issues
<b>Zool 2033/31*</b> <b>Zool 3123/21*</b> <b>Phys 1133/21*</b> <b>Kines 2593/91</b> ( <i>Taken prior to Zool 3123/21</i> )*	<b>FS 4713</b> <b>OR</b> <b>FS 3713</b> <b>FS 4733</b> Family Financial Planning <b>FS 4773</b> Family Resource Management <b>FS 4803</b> Public Policy
<b>FS 2003</b>	<b>FS 4933</b> Practicum
<b>Women's Studies 3 credit hours</b>	

**Occupational Therapy: 25 credit hours in the final year** (all core and major courses must be completed before beginning the OT courses)

**Total Credit hours for Fast Track B.S. in Family Studies: 127**

\*Satisfies core course requirements and is also a pre-requisite for OT.

\*\* Check the Family Studies website for updated rotation schedule.

## BS-MOT Psychology Major - (Fast track) in Occupational Therapy

The semester prior to completing the core and major courses, the student applies to the School of Occupational Therapy. If accepted, the final year of BS studies consists of only OT courses. Note: An additional year of OT courses and 6 months of fieldwork will complete the MOT degree.

<b>Core</b>	<b>Major: Psychology**</b>
<b>English 1013</b>	<b>Phil 2033</b> Logic and Critical Thinking
<b>English 1023</b>	<b>Phil 3073</b> Bioethics
<b>History 1013</b>	<b>Psy 3303</b> Applied Statistics
<b>History 1023</b>	<b>Psy 3633</b> Adolescent Psychology
<b>Gov 2013</b>	<b>Psy 3013</b> Professional Development
<b>Gov 2023</b>	<b>Psy 4153</b> Counseling
<b>Visual/Perf Arts</b> 3 credit hours	<b>Psy 3163/31</b> Intro to Behavior Therapy & Lab
<b>Literature, philosophy, modern or classical language/literature and cultural studies</b> - 3 credit hours	<b>Psy 3023</b> Social Psychology  <b>Psy (Advanced Psychology)</b> 3 credit hours
<b>Math 1703*</b>	<b>Psy 4763</b> Early Field Exper. in Psy. <b>Psy 4133</b> Physiological Psychology
<b>Psych 1013*</b> <b>Psych 3513*</b> <b>Psych 1603*</b>	<b>Speech</b> 3 credit hours <b>CSCI</b> 3 credit hours
<b>Zool 2033/31*</b> <b>Zool 3123/21*</b> <b>Phys 1133/31*</b> <b>Kines 2593/91</b> ( <i>Taken prior to Zool 3123/21</i> )*	
<b>Multicultural</b> 3 credit hours	
<b>Women's Studies</b> 3 credit hours	
<b>Occupational Therapy: 25 credit hours in the final year</b> (all core and major courses must be completed before beginning the OT courses)	
<b>Total Credit hours for Fast Track B.S. in Psychology: 126</b>	

\*Satisfies core course requirements and is also a pre-requisite for OT.

## BS-MOT Health Studies Major - (Fast track) in Occupational Therapy

The semester prior to completing the core and major courses, the student applies to the School of Occupational Therapy. If accepted, the final year of BS studies consists of only OT courses. Note: An additional year of OT courses and 6 months of fieldwork will complete the MOT degree.

<b>Core</b>	<b>Health Studies</b>
<b>English 1013</b>	<b>HS 1901</b> Fitness & Health Lab
<b>English 1023</b>	<b>HS 1902</b> Fitness & Health: Enhancing Personal Wellness
<b>History 1013</b>	<b>HS 1373</b> Community Health Education
<b>History 1023</b>	<b>HS 2013</b> Utilization of Information Delivery Systems in Health Education
<b>Gov 2013</b>	<b>HS 3413</b> Epidemiology
<b>Gov 2023</b>	<b>HS 3073</b> Health Promotion Program Planning Design
<b>Visual/Perf Arts 3 credit hours</b>	<b>HS 3083</b> Program Evaluation in Health Promotion
<b>Literature, philosophy, modern or classical language/literature and cultural studies - 3 credit hours</b>	<b>HS 4121</b> Preparation for Internship in Health Education <b>HS 4353</b> Seminar in Health Program Planning, Implementation & Evaluation
<b>Math 1703*</b>	<b>HS Elective #1</b> 3 credit hours <b>HS Elective #2</b> 3 credit hours <b>HS Elective #3</b> 3 credit hours
<b>Psych 1013* Psych 1603* Psych 3513*</b>	<b>HS 3033 OR</b> Self study Medical Terminology
<b>Zool 2033/31* Zool 3123/21* Phys 1133/31* Kines 2593/91 (Taken prior to Zool 3123/21)*</b>	<b>HS 3002 OR</b> Copy of CPR/FA Cert. <b>HS 4123 x 2</b> Internship in Health Ed. <b>Bact 1003/01</b> Microbiology with lab <b>NFS 2013</b> Personal Nutrition
<b>Multicultural</b>	<b>Coms 4553</b> American Sign Lang. I
<b>Women's Studies 3 credit hours</b>	<b>Coms 4553</b> American Sign Lang. II
<b>Occupational Therapy: 25 credit hours in the final year</b> (all core and major courses must be completed before beginning the OT courses)	
<b>Total Credit hours for Fast Track B.S. in Health Studies: 127-132</b>	

\*Satisfies core course requirements and is also pre-requisite for OT.

## **General Requirements to begin and continue in the Master of Occupational Therapy Program**

### *Special Requirements:*

1. A grade of C or better must be earned in all required courses and a cumulative GPA of 3.0 must be maintained.
2. Prerequisites and all other required OT courses can be repeated one time only. Permission to repeat the course must be obtained from the Director of the School of Occupational Therapy.
3. Each student must present proof of ownership of malpractice insurance available in the state of Texas each academic year of enrollment.
4. Proof of immunizations is required as mandated by the state of Texas, OSHA, and Texas Woman's University
5. All classroom courses must be completed successfully before admission to Level II fieldwork experiences.
6. Any student failing to complete Level II fieldwork with a passing grade may repeat the fieldwork experience one time only. Permission to repeat the fieldwork must be obtained from the Director of the School of OT.
7. A student failing to complete fieldwork experience satisfactorily on the second attempt shall be terminated from the program.
8. All fieldwork experiences should be completed within 24 months following completion of classroom preparation

### *Occupational Therapy Courses required for the FastTrack BS Degree*

#### **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.<sup>o</sup> 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.

**OT 4352. Assessment in Occupational Therapy Processes.** Problem identification in the assessment process as it applies to person systems contributing to occupational performance. One lecture hour and two laboratory hours a week. Credit: Two hours.

**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 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 work, including its 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.** Qualitative methods of research. Exploration of the nature and methods of qualitative research with special emphasis on application of research findings to a problem in a specific area of interest. Prerequisite: OT 5141. Two lecture hours a week. Credit: Two hours.

**OT 5361. Occupational Adaptation Contexts of Childhood.** Placement in work, leisure, and daily living settings of individuals with impairments and disabilities. Opportunities for analysis of level of occupational adaptation of those individuals. Prerequisite: OT 5161. Two laboratory and one seminar hours a week. Credit: One hour.

### *Elective Undergraduate Courses*

**OT 4901. Selected Topics.** Intensive study in the field of Occupational Therapy practice. Credit: One hour. May be repeated for credit.

**OT 4903. Selected Topics.** Intensive study in the field of Occupational Therapy practice. Credit: Three hours. May be repeated for credit.

**OT 4911. Independent Study.** Special work in selected fields of occupational therapy. Credit: One hour. May be repeated for credit.

**OT 4913. Independent Study.** Special work in selected fields of occupational therapy. Credit: Three hours. May be repeated for credit.

### *Remaining Occupational Therapy Courses Required to Complete the MOT Degree (see graduate catalog for course descriptions)*

OT 5521. Occupational Adaptation: Adolescence to Middle Adulthood Laboratory

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 5742. Advanced Scholarly Inquiry Seminar

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*

- OT 5103. School-Based Practice: Applied
- OT 5143. Best Practice in School-Based Occupational Therapy
- OT 5153. Using Legislation to Empower Your Practice
- OT 5203. Research in Occupational Therapy
- OT 5303. Comparative Occupational Therapy Theory
- OT 5423. Grantwriting
- OT 5363. Foundations and Principles of Hand Rehabilitation.
- OT 5373. Evaluation and Management of Upper Quadrant Conditions.
- OT 5383. Comprehensive Management of Hand Conditions.
- OT 5413. Pediatric Neuroscience in Occupational Therapy
- OT 5443. Perspectives on Disability.
- OT 5453. Theories of Adaptation
- OT 5463. Conceptualization of Outcomes.
- OT 5473. Social and Cultural Influences on Adaptation.
- OT 5561. Specialized Health Care
- OT 5603. Occupational Therapy for Students with Behavior Disorders -  
Part I Theoretical Foundation.
- OT 5723. Motor Behavior in Pediatrics
- OT 5733. Pediatric Outcomes Measure
- OT 5811. Specialty Field Experience.
- OT 5903. Special Topics.
- OT 5911. Individual Study.
- OT 5913. Individual Study.
- OT 5983. Thesis
- OT 5993. Thesis

*Doctor of Philosophy Courses*

- OT 6223. Theory and Knowledge Development in Occupational Therapy
- OT 6233. Origin and Evolution of Concepts of Occupational Therapy
- OT 6333. Occupational Environments
- OT 6343. Theory of Occupational Adaptation
- OT 6423. Innovative Teaching Methods in Occupational Therapy
- OT 6433. Teaching Practicum in Occupational Therapy
- OT 6443. Practicum in Supervision of Individual Study
- OT 6453. Practicum in Occupational Therapy Curriculum Evaluation
- OT 6553. Advanced Research Design in Occupational Therapy < o:p>
- OT 6563. Programmatic Research Planning
- OT 6603. Seminar on Occupational Adaptation in Persons with  
Occupational Performance Dysfunction
- OT 6623. Instrumentation for Measuring Occupational Performances
- OT 6633. Cultural Components of Occupational Performance
- OT 6643. Qualitative Methods in Occupational Therapy

OT 6823. Current Issues and Trends in Occupational Therapy

OT 6911. Independent Study

OT 6913. Independent Study

OT 6983. Dissertation

OT 6993. Dissertation



# School of Physical Therapy

*Director: Sharon Olson, Ph.D., P.T., Professor*

*Location: CFO 1210 (Denton)*

*Telephone: (940) 898-2460 (Denton), (214) 706-2300 (Dallas), (713) 794-2070 (Houston)*

*www.twu.edu/pt*

*Faculty: Professors W. Bartlett, W. Hanten, S. Olson, L. Petterborg, M. Sabbahi, S. Schafer; Associate Professors P. Gleeson, B. MacNeill, M. Thompson; Assistant Professors M. Hamilton, E. Jackson, S. Lin, K. Mitchell, T. Roddey, S. Wang, L. Woods; Associate Clinical Professor C. Kelley; Assistant Clinical Professors A. Medley, R. Patel.*

To enter a career as a physical therapist, a graduate degree is required. The School of Physical Therapy offers a professional graduate degree for those entering the profession and M.S. and Ph.D. programs for those who already are physical therapists but who wish to pursue advanced studies. Undergraduate programs in various majors at Texas Woman's University will prepare the student for application to the professional masters program

**Students interested in a career in physical therapy may earn a baccalaureate degree in almost any field such as human biology, kinesiology, psychology, nutrition, or any other major.** By beginning the baccalaureate coursework at Texas Woman's University, the student has the opportunity to complete the prerequisites for the program and take the PT 1011 and PT 2002 courses while also completing the major requirements. These physical therapy courses provide information about the profession and a background in terminology and conditions treated by therapists. At TWU special degree programs in human biology (see below), kinesiology, nutrition, and psychology are available which include physical therapy prerequisites. Please refer to those sections of the catalog for more information.

## **Special Human Biology or Psychology Emphasis (Accelerated Programs)**

Students may begin as freshmen at Texas Woman's University and declare a major in human biology or psychology with the intent of applying to the professional M.S. program in physical therapy. Students are counseled by biology or psychology and physical therapy faculty to develop a degree plan. Students may be able to complete the majority of requirements for human biology or psychology while completing prerequisites for physical therapy by the end of the junior year. Such an accelerated program would potentially enable a student to complete the B.S. in Human Biology/Psychology and the M.S. in Physical Therapy in a total of five years and two months.

Students in the human biology/psychology (accelerated) sequence may apply to the professional program in physical therapy when they have junior standing according to the major curriculum, are in the process of completing all the human biology/psychology (accelerated) requirements except for the twelve hours in physical therapy which will count in the senior year, have successfully completed PT 1011 and PT 2002 on the first attempt; are in the process of completing all prerequisite courses for the physical therapy program, have met requirements for admission to the Graduate School, and have met all other requirements for admission as listed in a subsequent section on Admission Requirements. Students in the accelerated sequence compete with other applicants for admission to the program in physical therapy.

The profession of Physical Therapy offers many challenges and opportunities for self-directed and knowledgeable individuals. Coursework in the School of Physical Therapy is designed to foster independent thinking, problem solving, a strong ethical commitment toward physical therapy, and a desire for continued study and research. Additional information on physical therapy as a career choice is available from the School of Physical Therapy to help potential students better identify their suitability to the field of physical therapy.

The School of Physical Therapy provides a comprehensive curriculum offering a professional degree at the master's level and is 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 School of Physical Therapy offers the master's program in both Dallas and Houston. The Dallas center is located adjacent to Presbyterian Hospital, and the Houston center is in the Texas Medical Center. The program in Houston begins in the fall of each year and the program in Dallas begins in the summer of each year. Applicants must indicate the center for which they are applying. Facilities, equipment and faculty are excellent at both locations. Students at both locations are encouraged to have transportation available to visit clinical facilities at some distance from the centers.

The professional master's degree in physical therapy is a 26-month, 80 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 year students must be prepared to spend a total of 24 weeks at three different clinical sites which may necessitate additional expense for housing and transportation.

\*Students must meet all requirements for licensure according to State Law and must not have committed any acts which would cause denial. Refer to Article 4512e, Vernon's Civil Statutes, Section 2D for such requirements for Texas. It is the responsibility of the students to make sure they meet these requirements.

## Clinical Sites

Clinical education experiences are an exciting required part of the student's educational program. Many excellent facilities in and out of the state of Texas are available. 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 affiliation in proper sequence.

## Application Requirements

### **Suggested Deadline: November 1**

Admission to the professional M.S. 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.

In addition to general University and Graduate School requirements, the School of Physical Therapy requires the following for application for admission to the master's program:

1. Completion of Baccalaureate degree (or junior standing in human biology/psychology accelerated program at Texas Woman's University)
2. In process of completion of all prerequisite coursework
3. A minimum grade of B in most prerequisite courses
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.
8. Personal resume

Students with completed applications are reviewed by the Physical Therapy Admissions Committee. Those students accepted into the program will be notified no later than the spring of the year for which admission is sought.

## Prerequisite Courses

Two semesters of biology or zoology with laboratory.

(courses not accepted as meeting these prerequisites are biology for non-science 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).

### **Admission Requirements and Process**

After applicants are officially notified of provisional acceptance by the Graduate School they must:

1. Show evidence of completing outstanding prerequisites with grades of A or B (prior to first enrollment).
2. Show proof of immunization required by the state and proof of immunization for hepatitis B (prior to first enrollment.)
3. Maintain continuous health insurance throughout entire program.
4. 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.

1. Students must remain in good standing in the graduate school. Please refer to the Graduate Catalog for further information.
2. The courses in the program are sequential by semester and successful completion of all courses in one semester is required before progression to the next semester.
3. Grades lower than a C are not acceptable in physical therapy coursework.
4. 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.
5. In order to progress to clinical internships the student must comply with policies of the School of Physical Therapy.
6. 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 academic coordinator of clinical education have the right to remove a student from a clinical site.

7. 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.

### **Advanced Degrees**

For persons already possessing a baccalaureate degree in physical therapy, both Dallas and Houston offer a Master of Science degree (post-professional). In addition, the Doctor of Philosophy degree is offered at both locations (see Graduate Catalog for further information.)

### *Physical Therapy Undergraduate Courses*

(Offered in Denton only)

**PT 1011. Orientation to the Health Professions.** Emphasis on physical therapy; roles and applications of physical therapy; essential communication skills; problem solving skills; and behaviors needed by a physical therapist. Prerequisite: Permission of instructor. One lecture hour a week. Credit: One hour.

**PT 2002. Basic Physical Therapy Science I.** The profession of physical therapy to include: history, conditions treated, treatment objectives and functions, research, communication skills, relationship to medical profession. Prerequisites: Sophomore standing. Permission of Instructor. Two lecture hours a week. Credit: Two hours

(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.

### **Sample Degree Plan for Professional M.S. Degree in Physical Therapy**

#### **SEMESTER 1**

PT 5015 Gross Human Anatomy  
 PT 5011 Introduction to Physical Therapy Practice  
 PT 5021 Pathophysiology of Selected Disease States  
 PT 5022 Biological Principles of Disease  
 PT 5811 Introduction to Physical Therapy Skills

#### **SEMESTER 2**

PT 5033 Medical Kinesiology  
 PT 5024 Clinical Neuroscience  
 PT 5013 Applied Life Span Development  
 PT 5052 Medical Science for Physical Therapists  
 PT 5073 Evaluation and Assessment in Physical Therapy  
 PT 5071 Applied Physical Therapy Evaluation

SEMESTER 3

- PT 5113 Therapeutic Activities for the Orthopedic Patient
- PT 5193 Therapeutic Activities for the Rehabilitation Patient
- PT 5111 Applied Orthopedic Management
- PT 5123 Extremity Manual Therapy and Rehabilitation
- PT 5062 Medicine and Surgery
- PT 5191 Applied Neurorehabilitation

SEMESTER 4

- PT 5935 Internship I
- PT 5042 Psychosocial Aspects of Physical Therapy
- PT 5233 Research in Physical Therapy
- PT 5871 Critical Inquiry I

SEMESTER 5

- PT 5153 Physical Therapy Treatment Procedures
- PT 5134 Spinal Manual Therapy & Rehabilitation
- PT 5881 Critical Inquiry II
- PT 5221 Exercise Testing and Prescription in Physical Therapy
- PT 5223 Clinical Management of Cardiovascular/Pulmonary Conditions

SEMESTER 6

- PT 5064 Administration of Physical Therapy Services
- PT 5801 Patient Care Seminar
- PT 5945 Internship II
- PT 5891 Critical Inquiry III

SEMESTER 7

- PT 5955 Internship III
- PT 5921 Professional Issues & Topics in Physical Therapy

*Post-Professional Graduate Courses*

- PT 5023. Neural Basis of Motion
- PT 5083. Quantitative Evaluation in Physical Therapy
- PT 5093. Pathophysiology of Therapeutic Exercise
- PT 5103. Directed Practicum in Physical Therapy
- PT 5166. Neurodevelopmental Approach to Adult Hemiplegia I
- PT 5173. Neurodevelopmental Approach to the Pediatric Patient
- PT 5183. Neurodevelopmental Approach to Adult Hemiplegia II
- PT 5203. Orthopedic Evaluation and Treatment of the Geriatric Client
- PT 5213. Aspect of Pharmacology and Nutrition in Physical Therapy
- PT 5263. Functional Physical Therapy Anatomy and Biomechanics:  
Upper Quadrant
- PT 5273. Functional Physical Therapy Anatomy and Biomechanics:  
Lower Quadrant
- PT 5283. Radiologic Review for Physical Therapists

- PT 5293. Pathokinesiology
- PT 5513. Principles of Geriatric Physical Therapy I
- PT 5823. Intermediate Evaluation and Mobilization: Lower Quadrant
- PT 5832. Differential Diagnosis in Orthopedic Physical Therapy
- PT 5833. Intermediate Evaluation and Mobilization: Upper Quadrant
- PT 5923. Analysis of Current Issues and Problems in Physical Therapy
- PT 5983. Thesis
- PT 5993. Thesis
- PT 6023. Research for Clinical Scientists in Physical Therapy
- PT 6013. Supervised Teaching in Physical Therapy
- PT 6083. Advanced Instrumentation in Physical Therapy
- PT 6101. Practicum in Physical Therapy
- PT 6103. Advanced Practicum in Physical Therapy
- PT 6213. Computer Applications in Physical Therapy Research
- PT 6303. Field Research in Physical Therapy
- PT 6501. Research Dissemination
- PT 6503. Advanced Research Problems in Physical Therapy
- PT 6511. University Academic Issues
- PT 6521. Teaching Strategies in Physical Therapy
- PT 6823. Advanced Evaluation and Mobilization: Lower Quadrant
- PT 6833. Advanced Evaluation and Mobilization: Upper Quadrant
- PT 6983. Dissertation
- PT 6993. Dissertation

# College of Nursing

*Dean: Marcia J. Hern, Ed.D., R.N., Professor*

*Interim Associate Dean, Denton: Maisie Kashka, Ph.D., R.N., Professor Emerita*  
*Associate Dean, Houston: Rebecca C. Krepper, Ph.D., R.N., Associate Professor*  
*Associate Dean, Dallas: Caryl Mobley, Ph.D., R.N., Professor*

*Location : ASB 216 (Denton)*

*Telephone: (940) 898-2401 (Denton); (214) 689-6510 (Dallas); (713) 794-2100 (Houston)*

*Faculty: **Denton:** Professors G. Davis, P. Hamilton, A. Stiles; Associate Professors T. Nelms, S. Northam; Assistant Professor J. Grassley, D. Sauls; Assistant Clinical Professors M. Brogan, P. Jones, A. Thomson; **Dallas:** Professors S. Chaney, O. Hughes, S. VanSell; Associate Professors G. Byrd, M. Cho, J. Johnson-Russell, P. Mancuso, S. Sheriff, D. Tapler; Associate Clinical Professors M. Anderson, E. Ballard, J. Dalsheimer, K. Daniel, J. Mueller, L. Oquin; Assistant Professors C. Arnold, C. Bailey, A. Egan, M. Peters; Assistant Clinical Professors D. Anderson, J. Asel, A. Brnick, E. Ebbs, C. Enright, N. Fried, E. Fuentes, L. Galatas, R. George, B. Gray, C. Harber, S. Lambert, L. Light, G. Martin, B. McAlister, C. Wilson, J. Windebank; Clinical Instructors D. Bass-Chambless, L. Giles, K. Herrin, N. McMenamy, J. Picha; **Houston:** Professors C. Adamson, R. Britt, J. McFarlane, A. Young; Clinical Professors J. Kernicki, C. Stephenson; Associate Professors C. Ayers, B. Binder, M. Hawkins, S. Hutchinson, R. Langford; Associate Clinical Professors C. Hueske, A. Kyle, P. Landrum; Assistant Professors S. Compton, S. Cesario, K. Fagan, J. Foster, J. Gist, R. Grubecic, B. Haile, B. Henderson, A. Malecha, B. Mastel-Smith, D. Montgomery, T. Rodriguez, L. Symes, K. Tart, T. Walsh; Assistant Clinical Professors J. Edwards, M. Hinds, C. Juneau, M. McGowan, M. Rhemann, R. Solomon; Clinical Instructors F. Aboul-Enein, R. Schultz.*

The College of Nursing offers a program leading to the Bachelor of Science degree with a major in nursing. The curriculum may be completed in either full-time or part-time study.



Freshman and sophomore courses are offered on the Denton campus. The junior and senior courses are available at the University's clinical centers in Dallas and Houston. 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 program is accredited by the Board of Nurse Examiners for the State of Texas and the Commission on Collegiate Nursing Education. Graduates of the generic program are eligible to apply to take the examination for licensure as registered nurses.

## **Undergraduate Degree**

Bachelor of Science - Nursing Major

### **General Description**

The College of Nursing offers a baccalaureate degree program with a major in nursing. Students must complete a minimum of 126 semester hours of credit, including 58 semester hours in nursing. 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) transfer students from another baccalaureate nursing program, 3) non-nurses with a bachelor's degree in another field, 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**

All students in nursing are required to have been immunized against measles, mumps, rubella, chicken pox, tetanus, diphtheria, hepatitis B and have annual TB skin testing. 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.

Many 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.

## Admission and Program Requirements: Basic Students

Applicants must meet the University 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 Advising as Freshman and by an Admission Coordinator as Sophomores.

The program is four years in length. A Summer term may be necessary to complete prerequisite coursework. 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. 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.

The first two years of required lower division non-nursing courses are offered on the Denton campus. Students who complete 32 or more semester credit hours of the required non-nursing lower division courses at TWU and meet the minimum criteria for admission into the upper division nursing program will have 0.40 grade points added to their grade point average for consideration for admission into upper division nursing. These additional grade points will not be used for any purpose other than progression into upper division nursing courses.

The required upper division nursing courses are offered only in Dallas and Houston. Admission coordinators are available at each campus/center to assist students in evaluation of prior course work, selection of equivalent courses, and verification of eligibility to transfer.

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.

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;
2. Completed at least 48 hours of required lower division non-nursing courses to include these selected core 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 64 hours of the lower division course work specified in the degree plan before beginning nursing courses;
3. A minimum grade of C in anatomy and physiology, chemistry, and microbiology including all labs;
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, except electives, are calculated in the grade point average. Other courses which an applicant may have taken are not calculated in the grade point average;

5a. Submitted to the College of Nursing a completed application for upper division nursing with the required nursing application fee.

b. Submitted to TWU Student Records Processing in Denton, official transcripts from all colleges attended postmarked no later than one of the following dates:

January 15 for a fall semester entry

June 1 for a spring semester entry

6. Successfully passed an entrance test before application and admission to upper division nursing courses. Entrance testing must be completed at the TWU College of Nursing on specified dates. An applicant is allowed to take the entrance test only once before each deadline date.

At the time of enrollment in clinical nursing courses, the student must provide proof of:

1. Current cardiopulmonary resuscitation certification (must include one person, two person, infant, child, adult, choking, and one-way valve mask breathing for Health Care Providers).

2. Current required immunizations. Information on specific requirements is sent with the acceptance letter.

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.

Professional liability insurance will be provided for each student through the TWU student professional liability group policy.

The following courses are required for the Bachelor of Science degree with a major in nursing. The non-nursing courses are in compliance with the nursing field of study curriculum.

<b>Non-nursing prerequisite courses</b>	<b>Nursing courses</b>
ENG 1013 & 1023	BIOL 4344
HIST 1013 & 1023	NURS 3602
PSY 1013	NURS 3604
SOCI 1013	NURS 3612
PSY 1603	NURS 3614
MATH 1703	NURS 3803
Chemistry with Lab (4 hrs.)	NURS 3805
BACT 1001 & 1003	NURS 3812
ZOOL 2011 & 2013	NURS 3815
ZOOL 2021 & 2023	NURS 4602
GOV 2013 & 2023	NURS 4604
NFS 2323	NURS 4605
Women's Studies (3 hrs.)	NURS 4612
Multicultural Studies (3 hrs.)	NURS 4614
Philosophy or Literature (3 hrs.)	NURS 4803
Visual or Performing Arts (3 hrs.)	NURS 4805
Electives (3 hrs.)	NURS 4806

In accordance with the Texas Education Code, students who have satisfactorily completed a 42 hour core curriculum at an institution of higher learning in Texas are not required to complete the core curriculum at TWU. 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. The following courses meet the nursing core requirement and must be taken by all students, whether or not they have completed a core curriculum at another institution. Courses that have previously been successfully completed do not have to be repeated.

Anatomy & Physiology with Lab	8 hours
Chemistry with Lab	4 hours
Government	6 hours
Growth & Development (Life Span)	3 hours
History	6 hours
Microbiology with Lab	4 hours
Nutrition	3 hours
Statistics	3 hours

## **Admission and Program Requirements: Transfer Students From Another Nursing Program**

Transfer students must meet the admission requirements of the University and the progression requirements of the College of Nursing. In addition, 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. At least 30 of the last 36 hours have to be completed at TWU
6. A minimum of 45 hours have to be completed at TWU to graduate with honors.
7. Successful completion of a minimum of 25% of the total hours required for the degree must be taken at TWU.

Program requirements for transfer students are the same as those stated for basic students. 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.

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.

## **Admission and Program Requirements:**

### **Non-nurses with a Bachelor's Degree**

The program plan leading to a baccalaureate degree in nursing has been modified for individuals who have previously earned a college degree to facilitate a career change for the more mature and experienced student. Applicants who have previously earned a bachelor's degree must meet the University's admission requirements for transfer students.

Second degree students who complete 16 or more semester credit hours of the required non-nursing lower division courses at TWU and meet the minimum criteria for admission into the upper division nursing program will have 0.40 grade points added to their grade point average for consideration for admission into upper division nursing. These additional grade points will not be used for any purpose other than progression into upper division nursing courses.

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.

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;
2. Completed at least 25 hours of required lower division non-nursing courses to include core 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 37 hours of the lower division course work specified in the degree plan before beginning nursing courses;
3. Completed all four required Science Lab courses (anatomy and physiology I & II, chemistry, and microbiology including all labs);
4. A minimum grade of C in anatomy and physiology I & II, chemistry, and microbiology including all labs;
5. A minimum grade point average of at least 3.0 on the required non-nursing lower division core courses. All courses which are listed below are calculated in the grade point average.

	<i>Credit Hours</i>
U.S. History .....	6
Government (U.S. and Texas) .....	6
Microbiology with Lab .....	4
Chemistry with Lab .....	4
Growth & Development across the Life Span .....	3
Anatomy & Physiology with Labs .....	8
Nutrition .....	3
Statistics .....	<u>3</u>
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Other courses which the applicant may have taken are not calculated in the grade point average;

- 6a. Submitted to the College of Nursing a completed application for upper division nursing with the required nursing application fee.
- b. Submitted to TWU Student Records Processing in Denton, official transcripts from all colleges attended postmarked no later than one of the following dates:
  - January 15 for fall semester entry
  - June 1 for spring semester entry
- 7. Successfully passed an entrance test before application and admission to upper division nursing courses. Entrance testing must be completed at the TWU College of Nursing on specified dates. An applicant is allowed to take the entrance test only once before each deadline date.

The following upper division courses must be taken to complete the degree requirements. Requirements for progression to upper division are the same as those for basic students.

BIOL 4344	NURS 3803	NURS 4604	NURS 4805
NURS 3602	NURS 3805	NURS 4605	NURS 4806
NURS 3604	NURS 3812	NURS 4612	
NURS 3612	NURS 3815	NURS 4614	
NURS 3614	NURS 4602	NURS 4803	

**Admission and Program Requirements: 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 on the Denton Campus and at the Dallas and Houston Centers.

To be eligible for admission, the registered nurse must be admitted to the University, hold a current license as an RN in Texas, and have successfully completed the following course work:

	<i>Credit Hours</i>
English (Composition) .....	6
U.S. History .....	6
Government (U.S. and Texas) .....	6
Introduction to Psychology .....	3
Introduction to Sociology .....	3
Microbiology with Lab .....	4
Chemistry with Lab .....	4
Growth & Development across the Life Span .....	3
Anatomy & Physiology with Lab .....	8
Statistics .....	3
Nutrition .....	3
Women's Studies .....	3
Multicultural Studies .....	3
Philosophy or Literature .....	3
Visual or Performing Arts .....	3
Electives .....	<u>6</u>
	<b>67</b>

The registered nurse must complete an Application for Admission to Upper Division Nursing Courses. The suggested deadlines are:

- August 1     for students who will be eligible to begin nursing courses in the Spring semester
- April 1       for students who will be eligible to begin nursing courses in the Fall semester
- February 1   for students who will be eligible to begin nursing courses in the Summer semester (Houston only).

In accordance with the Texas Education Code, students who have satisfactorily completed a 42 hour core curriculum at an institution of higher learning in Texas are not required to complete the core curriculum at TWU. 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. The following courses meet the nursing core requirement and must be taken by all students, whether or not they have completed a core curriculum at another institution. Courses that have previously been successfully completed do not have to be repeated.

Anatomy & Physiology with Labs	8 hours
Chemistry with Lab	4 hours
Government	6 hours
Growth & Development across the Life Span	3 hours
History	6 hours
Microbiology with Lab	4 hours
Nutrition	3 hours
Statistics	3 hours

Registered nurses 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.

Twenty five 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 3604 Nursing Therapeutic Techniques, NURS 3805 Nursing the Developing Family, NURS 3815 Nursing the Family with Acute Health Problems, NURS 3812 Pharmacology in Nursing Practice, NURS 4604 Promoting Mental Wellness in Families and Groups, and NURS 4605 Nursing the Family with Chronic Health Problems.

The upper division course requirements listed below are taken at TWU.

	<i>Credit Hours</i>
BIOL 4344 Pathophysiology	4
NURS 3643 The RN Baccalaureate Nursing Experience	3
NURS 3612 Introduction to Nursing Research	2
NURS 3614 Nursing Assessment Across the LifeSpan	4
NURS 3804 The RN Nursing Experience with Families and Groups	4
NURS 4612 Promoting Wellness in the Aging Family	2
NURS 4614 The Nursing Experience with Communities	4
NURS 4803 The Nursing Leadership and Management Experience	3
NURS 4813 The RN High Acuity Nursing Experience	3
NURS 4823 The RN Transition to Baccalaureate Nursing	<u>3</u>
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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 the program coordinators.



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, and one-way valve mask breathing) for the Health Care Provider.
2. professional liability insurance purchased through a TWU student professional liability group policy. The cost is included in clinical course fees.
3. current licensure as a registered nurse in Texas.
4. current required immunizations.
5. 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.

## **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. placement test(s)
- b. 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), 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 had 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, and Board of Nurse Examiners 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 or whose behavior is deemed unsafe in any manner.

## Bachelor of Science - Nursing Major

### A Suggested Sequence of Courses

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.

#### LOWER DIVISION

##### Freshman I (Fall)

History 1013 (U.S.).....	3
English 1013 (Comp. & Lit.).....	3
Psychology 1013 (Intro).....	3
Chem (Lec & Lab).....	4
Sociology 1013 (Intro).....	3
	<b>16</b>

##### Freshman II (Spring)

History 1023 (U.S.).....	3
English 1023 (Comp. & Lit.).....	3
Psychology 1603 (Life Span Dev.).....	3
Bacteriology 1001/1003 .....	4
Visual/Performing Arts.....	3
	<b>16</b>

##### Freshman II (Summer)

Zoology 2011/2013 (Anat & Phys 1).....	4
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##### Sophomore I (Fall)

Government 2013 (U.S.).....	3
Zoology 2021/2023 (Anat.&Phys.II)...	4
Literature or Philosophy.....	3
Nutrition .....	3
Math 1703 (statistics).....	3
	<b>16</b>

##### Sophomore II (Spring)

Government 2023 (Texas).....	3
Women's Studies .....	3
Multicultural.....	3
Elective.....	3
	<b>12</b>

#### UPPER DIVISION

##### Junior I

Nurs 3602 (The Nsg. Experience).....	2
Nurs 3604 (Nsg. Therapeutic Tech.) ...	4
Nurs 3812 (Pharmacology) .....	2
Nurs 3614 (Nsg. Assessment) .....	4
Biol 4344 (Pathophysiology) .....	4
	<b>16</b>

##### Junior II

Nurs 3803 (The Nsg. Experience with Families).....	3
Nurs 3805 (Nsg/Develop Family)...	5
Nurs 3612 (Intro to Research).....	2
Nurs 3815 (Nsg. the Family with Acute Health Problems).....	5
	<b>15</b>

##### Senior I

Nurs 4602 (The Nsg. Exper. with Groups) .....	2
Nurs 4604 (Promoting Mental Wellness in Families & Groups) .....	4
Nurs 4605 (Nsg. the Family with Chronic Health Problems) .....	5
Nurs 4612 (Promoting Wellness in the Aging Family) .....	2
Nurs 4614 (The Nsg. Experience with Communities).....	4
	<b>17</b>

##### Senior II

Nurs 4803 (The Nsg. Leadership & Management Experience) .....	3
Nurs 4805 (High Acuity Nursing) .....	5
Nurs 4806 (Transition to Professional Nsg.) .....	6
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## Licensure as a Registered Nurse

The following material is taken from the Texas Occupations Code governing examination, registration, and disciplinary proceedings of Registered Nurses under jurisdiction of the Board of Nurse Examiners for the State of Texas. Every student in the College of Nursing will be responsible for having read this carefully. If you have any misunderstandings or concerns about this material and are wondering whether it has meaning for you, please make an appointment to talk to the Associate Dean of the College of Nursing on your campus. If you know that the Article here quoted applies to you, you are urged to make contact with the Board of Nurse Examiners for the State of Texas. The Board representative will give you information you need in order to plan for the licensing examination.

### ***Sec. 301.452. Grounds for Disciplinary Action***

(a) In this section, “intemperate use” includes practicing professional nursing or being on duty or on call while under the influence of alcohol or drugs.

(b) a person is subject to denial of a license or to disciplinary action under this subchapter for:

(1) a violation of this chapter, a rule or regulation not inconsistent with this chapter, or an order issued under this chapter;

(2) fraud or deceit in procuring or attempting to procure a license to practice professional nursing;

(3) a conviction for a felony or for a misdemeanor involving moral turpitude;

(4) conduct that results in the revocation of probation imposed because of conviction for a felony or for a misdemeanor involving moral turpitude;

(5) use of a nursing license, diploma, or permit, or the transcript of such a document, that has been fraudulently purchased, issued, counterfeited, or materially altered;

(6) impersonating or acting as a proxy for another person in the licensing examination required under Section 301.253 or 301.255;

(7) directly or indirectly aiding or abetting an unlicensed person in connection with the unauthorized practice of professional nursing;

(8) revocation, suspension, or denial of, or any other action relating to, the person’s license or privilege to practice nursing in another jurisdiction;

(9) intemperate use of alcohol or drugs that the Board determines endangers or could endanger a patient;

(10) unprofessional or dishonorable conduct that, in the Board’s opinion, is likely to deceive, defraud, or injure a patient or the public;

(11) adjudication of mental incompetency;

(12) lack of fitness to practice because of a mental or physical health condition that could result in injury to a patient or the public; or

(13) failure to care adequately for a patient or to conform to the minimum standards of acceptable professional nursing practice in a manner that, in the Board's opinion, exposes a patient or other person unnecessarily to risk of harm.

(c) The Board may refuse to admit a person to a licensing examination for a ground described under Subsection (b).

***Sec. 301.257. Declaratory Order of License Eligibility***

(a) A person may petition the Board for a declaratory order as to the person's eligibility for a license under this chapter if the person:

(1) is enrolled or planning to enroll in an educational program that prepares a person for an initial license as a registered nurse; and

(2) has reason to believe that the person is ineligible for the license.

(b) The petition must state the basis for the person's potential ineligibility.

(c) The Board has the same powers to investigate the petition and the person's eligibility that it has to investigate a person applying for a license.

(d) The petitioner or the Board may amend the petition to include additional grounds for potential ineligibility at any time before a final determination is made.

(e) If the Board determines that a ground for ineligibility does not exist, instead of issuing an order, The Board shall notify the petitioner in writing of the Board's determination on each ground of potential ineligibility. If the Board proposes to find that the petitioner is ineligible for a license, the petitioner is entitled to a hearing before the State Office of Administrative Hearings.

(f) The Board's order must set out each basis for potential ineligibility and the Board's determination as to eligibility. In the absence of new evidence known to but not disclosed by the petitioner or not reasonably available to the Board at the time the order is issued, the Board's ruling on the petition determines the person's eligibility with respect to the grounds for potential ineligibility set out in the written notice or order.

(g) The Board may require an individual accepted for enrollment or enrolled in an educational program preparing a student for initial licensure as a registered nurse to submit information to the Board to permit the Board to determine whether the person is aware of the conditions that may disqualify the person from licensure as a registered nurse on graduation and of the person's right to petition the Board for a declaratory order under this section. Instead of requiring the person to submit the information, the Board may require the educational program to collect and submit the information on each person accepted for enrollment or enrolled in the program.

(h) The information required under Subsection (g) must be submitted in a form approved by the Board.

(i) If, as a result of information provided under Subsection (g), the Board determines that a person may not be eligible for a license on graduation, the Board shall notify the educational program of its determination.

*Nursing Undergraduate Courses*

**NURS 3073. Cultural Issues in Health Care.** Same as OT 3073. Examination of interdisciplinary concepts, theories, and practices related to cultural health care in the United States. Study of the health care system, nursing, and occupational therapy as cultures. Exposure to and study of health perceptions, values, beliefs, and practices of major cultural groups as well as selected groups indigenous to the demographic area. Study of concepts to promote culturally sensitive client care. Meets core curriculum requirement for multicultural studies. Three lecture hours a week. Credit: Three hours.

**NURS 3093. Women's Health Issues in the Workplace.** Same as WS 3093 and OT 3093. Examines health issues impacting women in the work place. Analyzes historical and current factors influencing the well-being of women at work, incorporating views of feminist theorists. Studies cultural influences on choice of occupation and balance of work and home responsibilities. Three lecture hours a week. Credit: Three hours.

**NURS 3133. Perspectives on Women's Health.** Same as HS 3133 and WS 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. Meets core curriculum requirement for women's studies. Three lecture hours a week. Credit: Three 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. Meets core curriculum requirements for women's studies or multicultural studies. Three lecture hours a week. Credit: Three hours.

**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. Meets core curriculum requirement for women's studies or multicultural studies. Prerequisites: ZOOL 2011, ZOOL 2013, ZOOL 2021, ZOOL 2023. Three lecture hours a week. Credit: Three hours.

**NURS 3602. The Nursing Experience.** Focuses on the uniqueness of nursing as a practice profession in relation to society. Emphasizes all aspects of health promotion including health care delivery systems. Introduces ethical, legal, and political influences as impacts on health care and health care providers. Prerequisite: Admission to upper division nursing. Prior to or concurrent with NURS 3604 and NURS 3614. Two lecture hours a week. Credit: Two hours

**NURS 3604. Nursing Therapeutic Techniques.** Focuses on unique therapeutics utilized by professional nurses in helping relationships. Emphasizes a variety of psychomotor, communication, and self-evaluation skills. Experiences in community-based settings provide opportunities to implement the nursing process and teaching-learning strategies for health promotion and health maintenance of individuals across the life span. Corequisites: NURS 3602, NURS 3614, and BIOL 4344. Two lecture hours and six laboratory hours a week. Credit: Four 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, NURS 3602. 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. Corequisites: NURS 3602, and BIOL 4344. Two and one half lecture hours and four and one half laboratory hours a week. Credit: Four hours.

**NURS 3643. The RN Baccalaureate Nursing Experience.** 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 3602. 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 3803. The Nursing Experience with Families.** Focuses on nursing's role with families. Emphasizes aspects of health promotion and health maintenance with families including impact of life experiences. Examines the developing family, family dynamics, and the impact of illness. Prerequisites: NURS 3602, NURS 3604, NURS 3614, and BIOL 4344. Prior to or concurrent with NURS 3805 and NURS 3815. Three lecture hours a week. Credit: Three hours.

**NURS 3804. The RN Nursing Experience 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 3803 and NURS 4602. Prerequisites: NURS 3643. Prior to or concurrent with NURS 4614. Four lecture hours a week. Credit: Four hours.

**NURS 3805. Nursing the Developing Family.** Focuses on the unique role and contributions of nursing to collaborative management of individuals and families during childbearing and childrearing including health promotion and health maintenance. Clinical experiences with developing families in a variety of settings emphasize development of clinical judgments and skills. Prerequisites: NURS 3602, NURS 3604, NURS 3614, NURS 3812, and BIOL 4344. Corequisite: NURS 3803. Three lecture hours and six laboratory hours a week. Credit: Five hours.

**NURS 3812. Pharmacology in Nursing Practice.** Focuses on the pharmacologic aspects of nursing practice. Builds knowledge base of drugs and emphasizes the nurse's responsibilities in drug administration. Corequisite: BIOL 4344. Prior to NURS 3805 and NURS 3815. Two lecture hours a week. Credit: Two hours.

**NURS 3815. Nursing the Family with Acute Health Problems.** Focuses on unique role and contributions of nursing to collaborative management of acute health problems. Emphasizes health promotion and health maintenance, including restoration and rehabilitation activities. Clinical experiences with family constellations across the life span in a variety of acute care settings emphasize development of clinical judgments and skills. Prerequisites: NURS 3602, NURS 3604, NURS 3614, NURS 3812, and BIOL 4344. Corequisite: NURS 3803. Three lecture hours and six laboratory hours a week. Credit: Five 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. Corequisites: NURS 3803. Two lecture hours a week. Credit: Two hours.

**NURS 4604. Promoting Mental Wellness in Families and Groups.** Focuses on unique role and contributions of nursing to collaborative management of health problems which affect behavior. Clinical experiences with individuals, families, and groups in a variety of settings emphasize development of clinical judgments and skills that promote mental wellness. Prerequisites: NURS 3612, NURS 3803, NURS 3805, and NURS 3815. Corequisite: NURS 4602. Two lecture hours and six laboratory hours a week. Credit: Four hours.

**NURS 4605. Nursing the Family with Chronic Health Problems.** Focuses on the unique role and contributions of nursing to collaborative management of chronic health problems. Emphasizes health promotion and health maintenance, including restoration and rehabilitation activities. Clinical experiences with family constellations across the life span in a variety of settings emphasize development of clinical judgments and skills. Prerequisites: NURS 3612, NURS 3803, NURS 3805, and NURS 3815. Corequisite: NURS 4602. Three lecture hours and six laboratory hours a week. Credit: Five 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. Prerequisites: NURS 3602, NURS 3604, NURS 3614, NURS 3812, and BIOL 4344. Corequisite: NURS 3612. Two lecture hours a week. Credit: Two hours.

**NURS 4614. The Nursing Experience with Communities.** 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 3612, NURS 3803, NURS 3805, and NURS 3815. Corequisites: NURS 4602, NURS 4604, and NURS 4605. Two lecture hours and six laboratory hours a week. Credit: Four hours.

**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 4602, NURS 4604, NURS 4605. Corequisites: NURS 4612. Three lecture hours a week. Credit: Three hours.

**NURS 4805. High Acuity Nursing.** Focuses on collaborative management, critical thinking, and practice skills utilized in high acuity nursing of individuals of all ages. Practice areas include home, transitional, and acute care settings. Prerequisites: NURS 4602, NURS 4604, NURS 4605, NURS 4612, and NURS 4614. Three lecture hours and six laboratory hours a week. Credit: Five hours.

**NURS 4806. Transition to Professional 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. Prerequisites: NURS 4602, NURS 4604, NURS 4605, NURS 4612, and NURS 4614. Corequisites: NURS 4803. Eighteen laboratory hours a week. Credit: Six hours.

**NURS 4813. The RN High Acuity Nursing Experience.** 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. Taken in place of NURS 4805. Prerequisites: NURS 3643. Three lecture hours a week. Credit: Three hours.

**NURS 4823. The 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 3643 and NURS 3614. Corequisite: NURS 4803. Nine laboratory hours a week. Credit: Three 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*

- NURS 5001. Advanced Practice Nursing Seminar
- NURS 5002. Advanced Nursing Practice Role
- NURS 5003. Health Promotion and Primary Prevention
- NURS 5013. Theoretical Foundations of Nursing Practice
- NURS 5023. Research in Nursing
- NURS 5203 Theoretical Bases for Nursing Education
- NURS 5253 Curriculum Design and Management in Nursing
- NURS 5263 Educational Communication and Technologies of Instruction
- NURS 5273 Measurement and Assessment in Nursing
- NURS 5283 Evaluation Models for Curriculum Management
- NURS 5293 Teaching Practicum in Nursing
- NURS 5325. Child Health Nursing I
- NURS 5305. Child Health Nursing II
- NURS 5315. Child Health Nursing III
- NURS 5425. Women's Health Nursing I
- NURS 5405. Women's Health Nursing II
- NURS 5415. Women's Health Nursing III
- NURS 5525. Adult Health Nursing I
- NURS 5505. Adult Health Nursing II
- NURS 5515. Adult Health Nursing III
- NURS 5625. Family Health Nursing I
- NURS 5605. Family Health Nursing II
- NURS 5615. Family Health Nursing III
- NURS 5644. Advanced Assessment/Differential Diagnosis
- NURS 5663. Pharmacotherapeutics for Advanced Nursing Practice
- NURS 5683. Nurse Preceptorship I
- NURS 5684. Clinical Nurse Specialist Preceptorship
- NURS 5693. Nurse Preceptorship II
- NURS 5542. Health Systems Management: Challenges and Opportunities
- NURS 5544. Organizational Assessment Practicum
- NURS 5543. Outcomes Assessment Practicum
- NURS 5553. Fiscal Assessment Practicum
- NURS 5903. Special Topics in Nursing
- NURS 5911. Individual Study
- NURS 5913. Individual Study

NURS 5973. Professional Paper  
NURS 5983. Thesis  
NURS 5993. Thesis  
NURS 6002. Multicultural Nursing  
NURS 6003. Grant Writing  
NURS 6004. Theory and Foundations of Nursing Research  
NURS 6014. Theory and Methods of Quantitative Nursing Research  
NURS 6023. Philosophy of Nursing Science  
NURS 6024. Theory and Methods of Qualitative Nursing Research  
NURS 6033. Ethical Dimensions of Nursing  
NURS 6034. Research/Theory Synthesis  
NURS 6043. Policy, Power, and Politics  
NURS 6053. Exploring Scholarship  
NURS 6143. Irregular Time Series Statistical Analysis  
NURS 6163 Health Outcomes Measurement, Management, and Analysis  
NURS 6223. Threats to Women's Health  
NURS 6243. Feminist Pedagogy in Nursing Education  
NURS 6273. Aging and Chronic Health Conditions  
NURS 6613. Introduction to Clinical Investigation in Nursing  
NURS 6623. Systematic Inquiry in Nursing  
NURS 6633. Advanced Systematic Inquiry in Nursing  
NURS 6903. Special Topics  
NURS 6911. Individual Study  
NURS 6913. Individual Study  
NURS 6983. Dissertation  
NURS 6993. Dissertation

### 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.

			TWU NURS Corresponding Course #
Content area	Didactic Course(s)	Clinical Co-Requisite	
Fundamentals (Including Basic Skills)	RNSG 1413/RNSG 1513 * <b>OR</b>	2 to 6 semester credit hours (SCH) (RNSG XX60*, RNSG XX61*, RNSG XX62*, RNSG XX63*)	3604
	RNSG 1413/1513* <b>PLUS</b> RNSG 1105/1205* <b>OR</b>	2 to 6 SCH (RNSG XX60*, RNSG XX61*, RNSG XX62*, RNSG XX63*)	3602 & 3604
	RNSG 1209/1309* <b>PLUS</b> RNSG 1105/1205* <b>OR</b>	2 to 6 SCH (RNSG XX60*, RNSG XX61*, RNSG XX62*, RNSG XX63*)	3602 & 3604
	Any equivalent theory/lab combination	(RNSG XX60*, RNSG XX61*, RNSG XX62*, RNSG XX63*)	3602 & 3604
	RNSG 2213/2313*	1 OR 2 SCH (RNSG XX60*, RNSG XX61*, RNSG XX62*, RNSG XX63*)	4604
Mental Health	RNSG 1412/1512 <b>OR</b>	4 OR 5 SCH (RNSG XX60*, RNSG XX61*, RNSG XX62*, RNSG XX63*)	3805
Obstetrics/ Pediatrics	RNSG 1251 <b>PLUS</b> RNSG 2201 <b>OR</b>	4 OR 5 SCH (RNSG XX60*, RNSG XX61*, RNSG XX62*, RNSG XX63*)	3805
	RNSG 2208/2308* <b>PLUS</b> RNSG 2201*	4 OR 5 SCH (RNSG XX60*, RNSG XX61*, RNSG XX62*, RNSG XX63*)	3805
	RNSG 1331/143*1 <b>OR</b> 1231* <b>PLUS</b> 1232* <b>PLUS</b> RNSG 1347/1447* or 1247* <b>PLUS</b> 1248* <b>OR</b>	2 to 6 SCH (RNSG XX60*, RNSG XX61*, RNSG XX62*, RNSG XX63*)	4605 & 3815.
Medical/ Surgical Nursing			

# 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.

<b>TCCNS Course Prefix &amp; Number</b>		<b>TWU Course Prefix &amp; Number</b>	
	<b>TCCNS Course Title</b>		<b>TWU (Short) Course Title</b>
ACCT 2301	Principles of Accounting I	BUS 2043	Fundamentals of Accounting I
ACCT 2302	Principles of Accounting II	BUS 2053	Fundamentals of Accounting II
ANTH 2351	Cultural Anthropology	SOCI 3303	Cultural Anthropology (note: lower level only)
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	Basic Design
ARTS 1312	Design II	ART 1213	Color and Design
ARTS 1316	Drawing I	ART 1303	Basic Drawing
ARTS 1317	Drawing II	ART 1313	Basic Drawing
ARTS 2323	Drawing III	ART 2303	Figure Drawing
ARTS 2326	Sculpture I	ART 3753	Sculpture
ARTS 2346	Ceramics I	ART 3823	Ceramics – Hand building
ARTS 2347	Ceramics II	ART 3833	Ceramics- Throwing
ARTS 2351	Advertising Art I	ART 2223	Intro to Computer based Art
ARTS 2356	Photography I	ART 1603	Intro to Photography
ARTS 2366	Watercolor I	ART 3713	Painting-Watercolors

<b>TCCNS Course Prefix &amp; Number</b>	<b>TCCNS Course Title</b>	<b>TWU Course Prefix &amp; Number</b>	<b>TWU (Short) Course Title</b>
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
BIOL 1106	Gen. Biol. I (Majors-lab)	BIOL 1111	Principles of Biology Lab
BIOL 1107	Gen. Biol. II (Majors-lab)	BIOL 1121	Principles of Biology Lab II
BIOL 1111	Gen. Botany (lab)	BOT 2111	Plant Biology
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	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)	BACT 1001	Microbiology Laboratory
BIOL 2302	Anatomy & Phys II	ZOOL 2023	Human Anatomy & Physiology
BIOL 2320	Microbiology (non-majors)	BACT 1003	Microbiology
BUSI 1301	Introduction to Business	BUS 1093	Fundamentals of Business Enterprise
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 1307	Int. Mass Comm.	MCOM 1013	Broadcast Production (digital Video Editing)
COMM 1316	News Photography I	MCOM 3523	Photo Journalism
COMM 1318	Photography I	ART 1603	Intro Photography
COMM 1319	Photography II	ART 2653	Basic Photography
COMM 2305	Editing and Layout	MCOM 3013	Copyediting
COMM 2311	News Gath/Writ I	MCOM 2013	News writing/Reporting I
COMM 2315	News Gath/Writ II	MCOM 2023	News writing/Reporting II
COMM 2327	Principals of Advertising	MCOM 4413	Principals of Advertising
COMM 2339	Writing for Radio, TV , Film	MCOM 2313	Broadcast News writing
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	Data Structures
COSC 2325	Computer Organization and Machine Language	CSCI 3053	Data Structures
COSC 2336	Program. Fundamentals III	CSCI 2443	Computer Organization and Machine Language
		CSCI 3053	Data Structures

# 428 Texas Common Course Numbering System Crosswalk

TCCNS Course		TWU Course	
Prefix & Number	TCCNS Course Title	Prefix & Number	TWU (Short) Course Title
CRIJ 1301	Intro to Criminal Justice	GOV 2213	Intro to Criminal Justice
CRIJ 1306	Court Systems & Practices	GOV 3153	Legal Environment
CRIJ 1307	Crime in America	SOCI 2133	Crime in America
CRIJ 1310	Fundamentals of Criminal Law	GOV 3243	Criminal Law
CRIJ 2313	Correctional Systems	SOCI 4303	Correctional Systems & Practices
CRIJ 2314	Criminal Investigation	GOV 2223	Criminal investigation
CRIJ 2328	Police Systems & Practices	GOV 3233	Police Policies & Practices
DANC 1147	Introduction to Jazz	DNCE 1061 *	Jazz I
DANC 1103	Dance Composition	DNCE 2201	Dance Composition III
DANC 1110	Introduction to Tap Dance	DNCE 1071 *	Tap I
DANC 1111	Introduction to Tap Dance	DNCE 1071 *	Tap II
DANC 1112	Dance Performance	DNCE 3101 *	Dance Practicum I
DANC 1113	Dance Performance	DNCE 3101 *	Dance Practicum II
DANC 1128	Ballroom/Popular Club Dance	DNCE 1021 *	Ballroom I
DANC 1133	Ballroom/Popular Club Dance	DNCE 1021 *	Country and Western I
DANC 1134	Ballroom/Popular Club Dance	DNCE 1021 *	Country and Western II
DANC 1141	Introduction to Ballet	DNCE 1011 *	Ballet I
DANC 1142	Introduction to Ballet	DNCE 1011 *	Ballet II
DANC 1145	Introduction to Modern Dance	DNCE 1051 *	Modern Dance I
DANC 1146	Introduction to Modern Dance	DNCE 1051 *	Modern Dance II
DANC 1152	Dance performance	DNCE 3101 *	Dance Performance II
DANC 1306	World Dance Forms	DNCE 3143	World Dance II
DANC 2110	Intermediate/Ad. Tap Dance	DNCE 3171 *	Tap III
DANC 2111	Intermediate/Ad. Tap Dance	DNCE 3171 *	Tap IV
DANC 2112	Dance Performance	DNCE 3101 *	Dance Practicum III
DANC 2113	Dance Performance	DNCE 3101 *	Dance Practicum IV
DANC 2141	Elementary Ballet I	DNCE 1111 *	Ballet III
DANC 2142	Elementary Ballet II	DNCE 1121 *	Ballet IV
DANC 2145	Elementary Modern Dance I	DNCE 1151 *	Modern Dance III
DANC 2146	Elementary Modern Dance II	DNCE 1161 *	Modern Dance IV
DANC 2147	Intermediate/advanced Jazz	DNCE 3191 *	Jazz Dance III
DANC 2148	Intermediate/advanced Jazz	DNCE 3191 *	Jazz Dance IV
DANC 2151	Dance performance	DNCE 3101 *	Dance Performance III
DANC 2152	Dance performance	DNCE 3101 *	Dance Performance IR
DANC 2304	Understanding the Arts: Dance	DNCE 2393	Dance Appreciation II
DRAM 1220	Theatre Practicum I	DRAM 1312	Rehearsal and Production I
DRAM 1221	Theatre Practicum II	DRAM 1312	Rehearsal & Production I
DRAM 1310	Introduction to Theatre	DRAM 2493	Understanding the Arts – Drama
DRAM 1341	Makeup	DRAM 2433	Theatrical Makeup
DRAM 2220	Theatre Practicum III	DRAM 4412	Rehearsal & Production II
DRAM 2336	Voice for the Theatre	DRAM 3493	Theatre Speech
DRAM 2361	History Theatre I	DRAM 3473	Theatre Before 1715
DRAM 2362	History Theatre II	DRAM 3483	Theatre Since 1715
ECON 2301	Principles of Macroeconomics	ECO 1023	Principles of Macroeconomics
ECON 2302	Principles of Microeconomics	ECO 1013	Principles of Microeconomics
EDUC 1301	Introduction to Education	EDUC 2003	Schools and Society
EDUC 2301	Intro to Special Education	EDUC 4203	Learners with exceptionalities
ENGL 1306	Comp. for Non Native Speakers I	FL 1033	English for International Students
ENGL 1307	Com. for Non-Native Speakers II	FL 1043	English for International Students
ENGL 2314	Tech. & Business Writing I	ENG 3433	Professional Writing
ENGL 2322	British Literature I	ENG 2013	English Literary Masterpieces
ENGL 2326	American Literature	ENG 2033	American Literary Masterpieces
ENGL 2332	World Literature I	ENG 2043	World Literary Masterpieces
ENGL 2333	World Literature II	ENG 2053	World Lit. Masterpieces, 1600 to Present
ENGL 2389	Academic Cooperative	ENG 4953	Cooperative Education
FREN 1311	Beginning French I	FR 1013	Elementary French
FREN 1312	Beginning French II	FR 1023	Elementary French



<b>TCCNS Course Prefix &amp; Number</b>	<b>TCCNS Course Title</b>	<b>TWU Course Prefix &amp; Number</b>	<b>TWU (Short) Course Title</b>
GEOG 1300	Principles of Geography	SOCI 3283	Principles of Geography (Note: lower level only)
GEOG 1303	World Regional Geography	SOCI 3273	World Regional Geography (note: lower level only)
GEOL 1404	Earth Sciences II	SCI 2123	Earth Science II
GEOL 1403	Earth sciences I	SCI 2113	Earth Science I
GOVT 2304	Intro. to Political Science	GOV 4833	Introduction to Political Science
GOVT 2305	American Gov. (Federal)	GOV 2013	U.S. National Government
GOVT 2306	American Gov. II (State)		
	Texas Government	GOV 2023	Texas Government
HECO 1315	Food Preparation & Meal Management	NFS 1301/1302	Food preparation Prin. and Lab.
HECO 1320	Textiles	FT 1053	Textiles I
HECO 1322	Nutrition/Diet Therapy	NFS 2323	Introduction to Nutrition
HECO 1328	Clothing Selection, Design and Construction I		
HIST 1301	United States History I	FT 1013	Apparel Construction Techniques
		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
HIST 2380	Mexican-American History	HIST 3753	History of Mexico
MATH 1316	Plane Trigonometry	MATH 1313	Elementary Analysis II
MATH 1332	Math for Liberal Arts I	MATH 1013	Introduction to Mathematics I
MATH 1333	Math for Liberal Arts II	MATH 1023	Introduction to Mathematics II
MATH 1350	Fundamentals of Math I	MATH 1603	Fund. of Elem. Mathematics I
MATH 1351	Fundamentals of Math II	MATH 1613	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	Introductory Calculus I
MATH 2414	Calculus II	MATH 2024	Introductory Calculus II
MATH 2415	Calculus III	MATH 3104	Intermediate Calculus
MUSI 1101	Fundamental of Music I	MU 1611	Music Fundamentals
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 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

## 430 Texas Common Course Numbering System Crosswalk

<b>TCCNS Course Prefix &amp; Number</b>	<b>TCCNS Course Title</b>	<b>TWU Course Prefix &amp; Number</b>	<b>TWU (Short) Course Title</b>
PHED 1301	Intro. to Physical Fitness and Sport	KINS 1573	Kinesiology: An Evolving Dis.
PHED 1304	Personal/Comm. Health I	HS 1373	Community Health Education
PHED 1305	Personal/Comm. Health II	HS 1373	Community Health Education
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
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 1315	Physical Science I	SCI 1113	General Physical Science
PHYS 2126	Univ. Phy. II (lab)	PHYS 2161	General Physics Lab II
PHYS 2326	Univ. Phy. II	PHYS 2163	General Physics II
PSYC 2301	General Psychology	PSY 1013	Introduction to General Psy.
PSYC 2306	Human Sexuality	HS 2373	Health Aspects of Human Sexuality
PSYC 2307	Adolescent Psychology I	PSY 3633	Adolescent Psychology
PSYC 2312	Human Development	PSY 1603	Developmental Psychology
PSYC 2313	Adolescent Psychology II	PSY 3633	Adolescent Psychology
PSYC 2314	Lifespan, Growth & Dev.	PSY 1603	Developmental Psychology
PSYC 2319	Social Psychology	PSY 3023	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 2319	Minority Studies I	SOCI 3093	Race and Ethnic Groups in the U.S.
SOCI 2336	Criminology	SOCI 2133	Crime in America
SOCI 2339	Juvenile Delinquency	SOCI 3113	Juvenile Delinquency (note: lower level only)
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
SPCH 1321	Business & Profess. Speaking	BUS 3163	Business Comm.
TECA 1303	Families and the Community	FS 1603	Child in the Family & Community
TECA 1311	Intro to Early Childhood Ed.	FS 3663	Foundations of Education
TECA 1318	Nutrition, Health, and Safety	NFS 2343	Nutrition Management for the Family and Child
TECA 1354	Child Growth & Development	FS 2513	Early Childhood Development

\*= repeatable courses

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Named for Elena Lucrezia Cornaro Piscopia, the first woman in history to receive a university degree (from the University of Padua, Italy, in 1678), the Cornaro Award for Excellence in Teaching is made by a peer committee in recognition of outstanding commitment to scholarship and the advancement of learning. Note: Asterisk (\*) indicates deceased.

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- 1993 MARTHA H. SWAIN, Ph.D., Professor of History and Government.
- 1994 TURNER S. KOBLER, Ph.D., Professor of English
- 1995 BETTYE B. MYERS, Ph.D., Professor of Kinesiology
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- 1997 BETTY B. ALFORD, Ph.D., Professor of Nutrition and Food Sciences
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- 1999 LYNDIA UPHOUSE, Ph.D., Professor of Biology.
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- 2001 BILLIE ASKEW, Ph.D., Professor of Reading, Director of Reading Recovery
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