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TWU GRADUATE CATALOG
Texas Woman’s University
Office of Admissions
P. O. Box 425589
Denton, Texas 76024-5589

TEXAS WOMAN'S UNIVERSITY



GRADUATE CATALOG 2012-2014

TEXAS WOMAN'S UNIVERSITY
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Texas Woman's University

Graduate Catalog 2012-2014

Denton/Dallas/Houston

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Introduction

Catalog Effective Date

The provisions of this catalog apply to students entering at the beginning of or after the first semester of the 2012-2014 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.

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 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 Graduate Catalog*. An electronic edition of the *Graduate 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 *Graduate Catalog* are identical. Should an inconsistency occur between the two versions, the printed version of the *Graduate 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. 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 1974, as amended; Section 503 and 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, as amended; the Age Discrimination Act of 1967, as amended; and other applicable federal and state statutes. Inquiries concerning University grievance procedures may be directed to the designated officials named below:

- Equal Employment Opportunity/Affirmative Action Officer: Associate Vice President 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 Officer: Associate Vice President of Human Resources, Texas Woman's University, P.O. Box 425739, Denton, TX 76204. Students should contact the Director of Disability Support Services, P.O. Box 425966, Texas Woman's University, Denton, TX 76204.

Family Educational Rights and Privacy Act (FERPA)

Pursuant to the Family Educational Rights and Privacy Act (FERPA), the University has established policies relating to the accessibility of student information in the custody of Texas Woman's University.

Copy of Education Records

Copies of education records to which students have access will be available at the student's request, in writing. The copies will be ready for the student within a reasonable period of time following the submission of the written request. Copies of transcripts may be obtained in the Office of the Registrar.

Student Directory Information

It is the policy of 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. Those who may obtain other than directory information may be:

1. TWU school officials with a legitimate educational interest
2. Officials of other schools where the student seeks or intends to enroll

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3. Certain representatives of the federal government
4. State educational authorities
5. Governmental representatives in connection with financial aid for which a student has applied
6. Organizations conducting studies for or on behalf of educational institutions or agencies for testing purposes, student aid programs, and instructional improvement
7. Accrediting organizations
8. Those responsible for ensuring compliance with a judicial order
9. Appropriate parties in a health and/or safety emergency
10. Parents of a dependent student as defined in Section 152 of the Internal Revenue Code of 1954

**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 means information contained in the education record of a student that would generally not be considered harmful or an invasion of privacy if disclosed. The following types of student information at TWU are considered "directory" for the purposes of this policy:*

- Name
- Local and permanent address
- TWU e-mail address
- Telephone listing
- Month, day, 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
- Enrollment status (e.g., undergraduate or graduate; full-time or part-time)
- Classification
- Degrees, awards, and honors received (including selection criteria)
- Expected graduation date
- Dissertation and thesis titles
- Most previous school attended
- Photograph

To prohibit directory information from being disclosed the student must notify the Registrar's Office in writing at the address indicated below by 5:00 p.m. of the Census Date for the semester. Check the Academic Calendar for Census Dates.

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

Limitations 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 parents' 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 record.

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 procedure indicated above does not apply to placement credentials.

Student Access

Students may inspect and review their education records upon request and upon completion of a form supplied by the component maintaining the records in

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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.

Education Records

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

1. University Registrar
2. Dean of the Graduate School
3. Director of Career and Employment Services
4. Associate Provost for Technology
5. Director of Student Financial Aid
6. Director of University Health Services
7. Provost
8. Vice President for Student Life

Board of Regents

P. MIKE McCULLOUGH, Dallas, Chair/Presiding Officer
SUE SCHRIER BANCROFT, Argyle, Vice Chair/Assistant Presiding Officer
LOLA CHRISS, Rowlett
DEBBIE GIBSON, Houston
ANN SCANLON McGINITY, Pearland
CECILIA MAY MORENO, Laredo
GEORGE R. SCHRADER, Dallas
MELISSA D. TONN, Dallas
MARY PINCOFFS WILSON, Austin
ADRIANA A. BLANCO, Fort Worth, Student Regent

Officers of Administration

The University

ANN STUART, Ph.D., Chancellor and President
ROBERT NEELY, Ph.D., Provost and Vice President for Academic Affairs
RICHARD A. NICHOLAS, Ph.D., Vice President for Student Life
BRENDA FLOYD, Ed.D., Vice President for Finance and Administration
JOHN E. LAWHON, J.D., General Counsel

The Graduate School

JENNIFER MARTIN, Ph.D., Senior Associate Provost and Dean of the
Graduate School
RUTH A. JOHNSON, Ph.D., Associate Dean of the Graduate School

Colleges

PATRICIA HOLDEN-HUCHTON, Ph.D., Dean, College of Nursing
JIMMY ISHEE, Ph.D., Dean, College of Health Sciences
L. NAN RESTINE, Ph.D., Dean, College of Professional Education
ANN STATON, Ph.D., Dean, College of Arts and Sciences

Degrees Offered at TWU

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

continued...

▲ Denotes Distance Learning degree available

*Teacher certification available

<i>Dept/Program</i>	<i>Bachelor's</i>	<i>Master's</i>	<i>Doctoral</i>
School of Management			
Business *	BS		
Business Administration	BBA	MBA	▲
Executive MBA		MBA	▲
Health Systems Management		MHSM	
COLLEGE OF HEALTH SCIENCES			
Communication Sciences & Disorders			
Communication Sciences	BS		
Education of the Deaf *		MS	▲
Speech/Language Pathology		MS	▲
Dental Hygiene	BS		▲
Health Care Administration		MHA	
Health Studies			
Health Studies	BAS, BS	MS	PhD ▲
Kinesiology			
Kinesiology *	BS	MS	PhD ▲
Nutrition & Food Sciences			
Culinary Science and Food Service Mgmt	BAS		
Dietetics and Institutional Administration	BS		
Exercise & Sports Nutrition		MS	
Food and Nutrition in Bus. and Industry	BS		
Food Science		MS	
Food Systems Administration		MS	▲
Nutrition	BS	MS	PhD ▲
School of Occupational Therapy			
Occupational Therapy		MOT	PhD ▲
Pre-Occupational Therapy	BS in fields listed below		
Child Development			
Family Studies			
Health Studies			
Psychology			
School of Physical Therapy			
Physical Therapy			DPT, PhD
Pre-Physical Therapy	BS in fields listed below		
Biology			
Kinesiology			
Nutrition			
Psychology			
COLLEGE OF NURSING			
Nursing	BS	MS	▲
Nursing Practice			DNP ▲
Nursing Science			PhD ▲
			continued...

12 Degrees Offered

<i>Dept/Program</i>	<i>Bachelor's</i>	<i>Master's</i>	<i>Doctoral</i>
COLLEGE OF PROFESSIONAL EDUCATION			
Family Sciences			
Child Development	BS	MS	
Counseling & Development		MS	
Early Child Development and Education			PhD
Early Childhood Education		MS, MA, MEd	
Family Studies*	BS	MS	PhD ▲
Family Therapy		MS	PhD
School of Library & Information Studies			
Library Science		MA, MLS	PhD ▲
Reading			
Reading Education *		MS, MA, MEd	PhD, EdD ▲
Teacher Education			
Interdisciplinary Studies *	BS		
Administration		MA, MEd	
Special Education		MA, MEd	PhD
Educational Diagnostician			
Teaching, Learning and Curriculum		MA, MEd	
Teaching*		MAT	▲
PRE-PROFESSIONAL PROGRAMS			
Pre-Law			
Pre-Medicine			
Pre-Dentistry			
Pre-Engineering			

▲ Denotes Distance Learning degree available

*Teacher certification available

General Information

The University

Texas Woman's University is a teaching and research institution committed to providing its students the highest-quality environment for learning and living. Excellence is our measure in all that we do, and that is reflected in our programs, faculty, and staff and our beautifully maintained grounds and buildings.

The university offers outstanding education in the liberal arts, sciences and professional studies, and conducts research to enhance the progress and welfare of the people of Texas, the nation, and the world. The faculty challenge students to think, to analyze, and to voice their opinions. TWU cultivates the leaders of tomorrow and has a proud heritage of providing education and leadership opportunities for women and men. The diversity of cultures on the TWU campuses also provides students the opportunity to look at issues from different perspectives.

Texas Woman's University is categorized as a Doctoral Research institution by the Carnegie Foundation. The graduate instructional programs of Texas Woman's University are designated as Doctoral/professions dominant by the Carnegie Foundation, which means that TWU awards doctoral degrees in a range of fields with the majority in professions such as education and health professions.

Established in 1901 by an act of the 27th Legislature as the Girls Industrial College, the institution began classes in 1903. 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, 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 Statement

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

Organization

The University houses the College of Arts and Sciences, the College of Professional Education, and the Institute of Health Sciences which includes the College of Health Sciences and the College of Nursing. The Graduate School administers graduate programs in each of these colleges.

Since its establishment in 1901, the University has become a major university with Institute of Health Sciences centers in Dallas and Houston, served by approximately 1,000 faculty members and attended by over 14,700 students. The curriculum which led to the awarding of baccalaureate degrees for the first time in 1915 now accommodates studies which lead to master's and doctoral degrees in each of the colleges of the University.

The Board of Regents

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

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

Accreditation and Approval

Texas Woman's University is accredited by the Southern Association of Colleges and Schools Commission on Colleges (1866 Southern Lane, Decatur, Georgia 30033-4097, telephone 404-679-4500, at www.sacscoc.org) to award baccalaureate, master's, and doctoral degrees. Selected academic programs are also accredited by appropriate state, regional, and national agencies. The Graduate School is a member of the Council of Graduate Schools. TWU's 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 which recognize and demand high standards in specific fields. Individual programs at Texas Woman's University are accredited by the following organizations (partial listing):

Accreditation Council for Business Schools and Programs
 Accreditation Council for Education in Nutrition and Dietetics
 Accreditation Council for Occupational Therapy Education
 American Association for Health Education
 American Chemistry Society
 American Dental Association Commission on Accreditation
 American Library Association
 American Psychological Association
 American Speech-Language-Hearing Association
 Board of Nurse Examiners for the State of Texas
 Commission on Accreditation of Healthcare Management Education
 Commission on Accreditation in Physical Therapy Education
 Commission on Collegiate Nursing Education
 Council for Accreditation of Counseling and Related Educational Programs
 Council on Social Work Education
 National Association of School Psychologists
 National Association of Schools of Dance
 National Association of Schools of Music
 Society of Public Health Educators
 Texas Education Agency /State Board for Educator Certification

Texas Woman's University is also a member of numerous local, regional, state, national, and international organizations and associations.

The Office of Alumni Relations

The TWU Office of Alumni Relations serves as the central coordination point for alumni activities held on all campuses of Texas Woman's University. The Office facilitates coordination of alumni activities, plans communication with all TWU alumni, and offers a variety of ways for TWU alumni to be involved in the life of the University.

For further information please contact:

The Office of Alumni Relations

P.O. Box 425725

Denton, TX 76204-5725

alumnirelations@twu.edu

Anne Scott, Director of Alumni Relations

940-898-2586

ascott2@twu.edu

www.twu.edu/alumni

Corporate and Community Relations

Corporate and Community Relations strives to ensure that TWU is recognized for its many contributions to the communities it serves throughout Texas. The goals of Corporate and Community Relations include: promoting TWU's reputation in communities served; encouraging the community to utilize resources and services available; identifying and fostering partnerships among community organizations and businesses which compliment TWU's enrollment and student retention efforts/goals; and identifying, cultivating, soliciting and stewarding selected corporate and foundation prospects. The office also provides a point of contact with TWU for the community, providing a clearinghouse and referral for inquiries received.

For further information, please contact:

Sharon Venable

Director, Corporate and Community Relations

P.O. Box 425618

Denton, TX 76204-5618

www.twu.edu/community-relations

940-898-3851

940-898-3877 fax

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, and to provide an agency authorized to receive and administer donations of money or other gifts designated to increase the renown, extend the services, improve the facilities, or promote in any way the welfare of Texas Woman's University.

A person interested in making a gift to the TWU Foundation may write or call the TWU Foundation, P.O. Box 425618, Denton, TX 76204-5618; phone 940-898-3872. For more information, please visit www.twu.edu/foundation.

Study Abroad Programs

Texas Woman's University offers a series of International Study Programs annually to provide educational opportunities abroad in environments which emphasize the visual and performing arts, history, culture, languages, literature, and comparative studies.

The International Study Abroad Programs are offered on both the undergraduate and graduate levels in selected major areas. Traditionally, the Programs are offered each semester, and students may earn up to six semester credit hours which may be applied toward degree programs at TWU.

Further information may be obtained by contacting the Director, Office of International Education, at 940-898-3338 or by email, intloffice@twu.edu.

Research and Sponsored Programs

The research mission of TWU is supported in multiple ways through the Office of Research and Sponsored Programs. Through research grants and contracts, as well as other sponsored programs such as training grants and community service projects, TWU provides new information for the benefit of our society, encourages faculty scholarship, and provides support and training for faculty and students. Services available to support research include proposal preparation and submission assistance; grant management for internal and external grants; coordination of internal grants and competitions; coordination of the Institutional Review Board, Institutional Animal Care and Use Committee, and Institutional Biosafety Committee; funding searches; statistical consultation; and scientific equipment repair.

External support for research comes from such federal agencies as the National Institutes of Health, Health Resources and Services Administration, Health and Human Services, Administration for Children and Families, National Institute of Occupational Safety and Health, National Institute of Nursing Research, National Science Foundation, Department of Defense and the U. S. Departments of Education and Agriculture. State agencies such as the Texas Higher Education Coordinating Board, Texas Education Agency, Texas Department of Agriculture, Texas Department of Mental Health and Mental Retardation, and the Texas State Library and Archives Commission also provide funding for research and sponsored programs at the University.

Assistance and information about research and sponsored programs are available from the Office of Research and Sponsored Programs. Detailed information

is also available through the department's pages on the University's homepage through the Research link. The department's pages may be directly accessed at: www.twu.edu/research/.

Cooperative Education Program (Internships)

Cooperative Education is a program of learning which combines classroom study with practical work experience outside the formal academic setting. Many academic programs at TWU provide undergraduate and graduate students the opportunity to participate in such activities. Upon graduation, students will have both a degree and work experience in their chosen field. (For more information contact Career Services 940-898-2950.)

Admission Requirements

To participate in the Cooperative Education program, a student must:

1. Have the recommendation of the student's major or minor department.
2. Have a graduate grade point average of 3.0 on a 4.0 scale, and must not be on academic probation.
3. Be available to work the number of hours per week specified for credit.
4. Be a second-semester graduate student at TWU.

Work Schedules

Cooperative Education students usually follow the parallel plan of the program, which allows students to participate in part-time or full-time work while registered for on-campus classes. Each work period is of such duration (approximately 15 weeks) that it provides sufficient opportunity to gain in-depth experience in an area related to the student's academic or career goals. The student and employer together will determine a mutually agreed upon work schedule.

Academic Credit

Academic credit is given for work in positions related to the student's major or minor courses of study. Also, it is possible to receive Cooperative Education credit if already employed and the current position meets the requirements of the Cooperative Education program.

All qualified Cooperative Education programs must meet certain requirements. The program at TWU is based on the following requirements:

1. A co-op experience is offered as a credit course by the academic department and under the guidance of a faculty member. When employed in a co-op position, 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. 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.

4. For a Cooperative Education experience successfully completed, a student will receive academic credit. (Maximum toward a graduate degree: 6 hours. Any other registration in Cooperative Education will be posted to the student's transcript and will be evaluated as hours additional to those required for the degree.) Recommendation for credit toward the graduate degree is made by the student's academic department.

Cooperative Education Course Description

Cooperative work arrangements are made between the University, business, industry, or selected institutions appropriate to the particular academic program. Job assignments are determined on the basis of student interests, skills, and degree program. The student will apply the ideas and processes learned in other courses in practical experience under cooperative supervision. Cooperative planning and evaluation are essential elements in the course.

Graduate Courses

- 5951. Cooperative Education.** One hour credit, 8-12 hours of work per week.
5953. Cooperative Education. Three hours credit, 15-20 hours of work per week.
5956. Cooperative Education. Six hours credit, 30-40 hours of work per week.
6951. Cooperative Education. One hour credit, 8-12 hours of work per week.
6953. Cooperative Education. Three hours credit, 15-20 hours of work per week.
6956. Cooperative Education. Six hours credit, 30-40 hours of work per week.

The Academic Common Market

Many Southern states participate in the Academic Common Market, an interstate agreement for sharing uncommon programs. Residents of these states who are accepted for admission into selected out-of-state programs can enroll on an in-state tuition basis. There are two requirements:

1. Acceptance in a program to which your state has made arrangements to send its students.
2. Proof that you are a legal resident of that state. Write directly to the institution for admissions information. After you have been accepted, write your state coordinator for certification of residency.

Information about participating states and available programs can be found at www.sreb.org/programs/acm/acminindex.asp.

Federation of North Texas Area Universities

The Federation of North Texas Area Universities, created by the Texas Higher Education Coordinating Board, is a consortium comprised of Texas Woman's

University, Texas A&M University – Commerce, and the University of North Texas. The Federation is designed to strengthen the resources of higher education in north central Texas through interinstitutional cooperation in graduate research and instruction. To this end the Federation universities supply joint educational opportunities to their students in selected program areas with some universities authorized to grant degrees and others authorized to provide support services for the degree programs.

Texas Woman's University grants, through the Federation, doctoral degrees in Counseling Psychology, Special Education, Reading, Sociology, and Molecular Biology. Master's degrees offered by Texas Woman's University through the Federation are in Reading, Early Childhood Education, and Art. Students desiring further information about the programs should consult the appropriate academic department or the website at www.twu.edu/federation/.

Technology Resources

Graduate students at TWU have available a wide selection of computer resources which may be utilized to support their graduate studies. Examples of these are the Student Technology Assistants and Resources Program (STAR), which is a uniquely designed service led by student trainers experienced in communicating technical information and providing troubleshooting support for both hardware and software for students, and the High Performance Computing (HPC) system which gives students access to cluster computing sources for data-rich studies. Students also have access to electronic email, online data storage, wireless internet, computer labs, and student software discounts, all of which are located at the Denton, Dallas, and Houston campuses.

For more information about all IT-related services, please visit www.twu.edu/tis or call the Information Technology Service Desk at 940-898-3971.

Campus and Centers

The Denton Campus

The main campus of Texas Woman's University is located in Denton, TX, a community of more than 100,000 residents located 38 miles north of Dallas and Fort Worth, the nation's fourth-largest metro center.

The University's high-rise residence halls and academic and administrative buildings dominate Denton's skyline. Blended with these structures are historic buildings, including Old Main (the University's first building) and the Little Chapel-in-the-Woods.

Known for its beauty and private college feel, the Denton campus features the Blagg-Huey Library, which is home to the nationally renowned TWU Woman's

Collection – the best concentration of resources on U.S. women in the Southwest. Wireless access is available across campus. The university also has several computer labs – including the MEGALAB – that offer the most up-to-date technology for students. TWU’s classroom technology improves the learning experience and simulates real-world conditions, ensuring student success in the classroom and the workplace. The Ann Stuart Science Complex includes the latest instructional technology and lab equipment for teaching and research in biology, chemistry and biochemistry. The TWU Fitness and Recreation Center features a 30-foot indoor climbing wall with a 22-foot vertical rappelling station. The Redbud Theater is a 120-seat proscenium venue that showcases a variety of drama performances each year.

The Dallas Center

The TWU T. Boone Pickens Institute of Health Sciences–Dallas Center opened in February 2011, combining the university’s Parkland and Presbyterian sites in an eight-story 190,000-square-foot building in the heart of the Southwestern Medical District.

The Dallas Center, established in 1966, now bears the name of Texas oilman and entrepreneur T. Boone Pickens, who donated \$5 million to the new building’s fundraising campaign. The center houses the Houston J. and Florence A. Doswell College of Nursing, the TWU Stroke Center-Dallas and the university’s physical therapy, occupational therapy and health systems management programs. Facilities include simulation laboratories and research laboratories, computer labs and classrooms, and One-Stop Student Services.

The Houston Center

TWU’s Institute of Health Sciences – Houston Center, established in 1960, is located at the southern gateway of the Texas Medical Center, a world-renowned 675-acre complex of hospitals, health-related schools, and research institutions. The Nelda C. Stark College of Nursing offers clinical and educational opportunities for students in nursing. Other programs offered at the Institute of Health Sciences–Houston Center include occupational therapy, physical therapy, health care administration and nutrition and food sciences. Facilities at the center include research laboratories, anatomy and nursing laboratories, a counseling center, a learning resource center and computer services.

Texas Woman’s University is a full participant in support and use of the Houston Academy of Medicine-Texas Medical Center Library.

The TWU Libraries

The TWU Libraries provide information services, education, and resources for teaching, learning, and research in a global environment to support faculty and prepare students for success in their professional and personal lives. Library staff teach research skills and offer library instruction in the classroom, in the Libraries and over the web.

The Blagg-Huey Library on the Denton campus offers students a modern facility for accessing both print and electronic information in an environment that provides comfort and inspirational beauty. Satellite collections are available at the TWU T. Boone Pickens Institute of Health Sciences – Dallas Center (the major nursing collection in the Dallas-Fort Worth area). Houston students use the resources of the outstanding collection in the Houston Academy of Medicine-Texas Medical Center Library and the Academic Resource Center on the TWU Houston campus.

TWU Libraries' collections have 593,631 print volumes, 125,007 e-books, 19,387 microform titles, and 15,411 audio visual materials; and the Libraries provide access to more than 2,473 print and electronic subscriptions, as well as 184 databases. Online access to full-text journals and books as well as indexes is provided within the library and from dorms, campus computer labs, or from home. Special collections include the Woman's Collection, the largest repository in the Southwest of research material about women; the Cookbook Collection; University Archives; and the Children's Collection, which 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. Researchers from around the world visit the Woman's Collection to study the Women Airforce Service Pilots of World War II (WASP); the Oral History Project; the various archives of Texas women's organizations including the Texas Federation of Women's Clubs, the Texas Federation of Business and Professional Women's Clubs, and the historic federation of clubs founded by African American women in Texas, the Texas Association of Women's Clubs. Books and manuscripts document the history of women in aviation, war, and military service. Materials in all formats provide rich sources regarding the struggle of women to obtain the rights of suffrage, equal legal rights, and other feminist goals.

In addition to the multiple resources of the TWU Libraries, students and faculty may use 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.

Distance Education

Texas Woman's University offers multiple degrees, programs, and courses online through Distance Education (DE). These courses and programs provide quality instruction and encourage high levels of interaction.

The DE degree programs are listed at www.twu.edu/de/online-degrees.asp. Additional online courses outside of these degree programs may be found in the Class Schedule by selecting "Internet Instruction" in the Instructional Methods box.

Online courses are delivered through Blackboard, an Internet-based software. Students who enroll in distance education courses will be required to pay a variable distance education fee ranging from \$12.00/semester hour to \$300.00/course.

More information about DE programs is available on TWU's Distance Education website www.twu.edu/de.

International students who hold F-1 and J-1 visa status cannot enroll in academic programs that are defined as 100% distance education (online degrees). An international student may be admitted to the University for such programs but is only authorized to complete those from her/his own country, and not in the United States.

Please note: Students in online courses need daily access to a computer with internet connections that meet TWU minimum hardware and software requirements. Please visit www.twu.edu/de/computer-requirements.asp to see a list of those requirements. Students should also have a back-up plan for accessing a second computer should any technical problem arise.

Students who are new to Distance Education may view a detailed introduction to Distance Education in the Guide for Online Courses (GOC), located at www.twu.edu/guide-for-online-courses, as well as on the opening Blackboard page. The GOC will give new DE students an idea of what an online class is like, how to find and login to their online courses, resources that are available to them and keys to success.

Intellectual Property

Texas Woman's University's Board of Regents Policy 4.02, "Intellectual Property," covers the ownership, distribution, and commercial development of intellectual property developed by TWU faculty, staff, students, and others participating in TWU programs. The policy is available at <http://www.twu.edu/regents/intellectual-property-part-1-introduction.asp>.

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, P.O. Box 425439, Texas Woman’s University, Denton, TX 76204. When students register online, they may make credit card or electronic check payments via PayOnline.

Tuition (Subject to Change)

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

Graduate

Resident (in-state) students, 2012-2014	\$216.84 per semester hour*
Nonresident (out-of-state and foreign) students ..	\$567.84 per semester hour*

Concurrent Enrollment Tuition. Students who will concurrently enroll at both Texas Woman’s University and another state university or community college should consult with the Registrar prior to enrollment at either institution. International students must report to the Office of International Education for concurrent enrollment verification.

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 classified as non-resident 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.

*Subject to change by legislation and/or Board of Regents.

Tuition Exceptions for Nonresidents. Nonresident 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. Nonresident 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. Hazlewood recipients should contact the Registrar's Office for those benefits.

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, Family Therapy, and Nursing are charged at the out-of-state rate for all doctoral work in excess of 130 doctoral hours.)

Request for Reduced Tuition (Code 3)

Under provisions of the Texas Higher Education Code Section 54.051(e), Texas residents are eligible for a reduced tuition rate when enrolling for professional paper, thesis, or dissertation only, provided those hours are the final credits required for the degree. Students must complete a form requesting the reduction and return it to the Graduate School prior to the final semester.

Required Fees (Subject to Change)

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

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

Fitness and Recreation Fee. A fitness and recreation fee of \$75.00 per semester will be assessed to all students who enroll for the fall, spring or summer long terms; \$37.50 for the fall, spring or summer short terms or \$18.75 for mini terms.

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

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

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

Late Registration Fee. Students will be assessed a \$50.00 non-refundable late registration fee if they register and/or pay beginning the first day of class for a semester.

Library Access Fee. A library access fee of \$9.00 per credit hour will be assessed to all students who enroll for the fall, spring, or summer.

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

Publication Fee. A \$2.00 publication fee will be charged to all students who register during the fall, spring, or summer semesters. The publication fee is used to defray the cost of publishing University publications.

Student Union Fee. A student union fee of \$32.00 will be charged to all students who register during the long fall, spring, or summer semesters; \$16.00 will be charged to all students who register during a short fall, spring, or summer term, or \$8.00 for a mini 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 \$11.00 non-refundable fee to cover the cost of the student identification card is required of all students who register for each fall, spring, summer, or mini 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 \$29.04 per semester credit hour not to exceed the following maximums:

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

\$116.16 for short fall, spring, or summer terms

\$58.08 per mini term

The student services 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 services fee are Career and Employment Services, the Center for Student Development, the Counseling Center, Disability Support Services, Intercollegiate Athletics, and Fitness and Recreation. The student services 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.

Course-related Costs

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

Drop/Add Fee (Subject to Change). A \$10.00 fee will be charged for dropping or adding a course when the drop/add is initiated by the student. There will be no charge for drops and adds that are departmentally initiated to balance teaching loads or close courses. 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

Diploma and Graduation Fees. A candidate for graduation must pay fees for the diploma, academic regalia, and, if necessary, mailing of diploma. The University will make every effort to keep these fees at a minimum cost, but they may vary from time to time. 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.

Returned Checks or Electronic Payments (Subject to Change). A \$30.00 service fee will be levied on all returned checks or electronic payments (web-check) if the bank is not at fault. Students submitting a payment to TWU that is returned unpaid are subject to being dropped from the University. It is TWU policy to submit all returned checks immediately upon receipt to the Denton County District Attorney for collection.

Transcript Fee. A non-refundable fee of \$10.00 per copy will be charged for all transcripts requested. All holds and past due balances must be rectified before transcripts will be released.

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.

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-quarter payment of tuition and fees in advance of the beginning of a fall or spring semester and three one-quarter payments due at one month intervals during the course of the semester (refer to Academic Calendar for scheduled dates). One-third payment of tuition and fees in advance of the beginning of a long summer term and two one-third payments due at one month intervals during the course of the semester (refer to Academic Calendar for scheduled dates). 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).
3. A Pioneer Portal account is required for enrollment in the Payment Plan. To establish a Portal account, enter the TWU website at www.twu.edu and follow the instructions by clicking on Pioneer Portal.

Enrollment in the plan is the responsibility of the student. Plan enrollment must be done online through the Pioneer Portal by accessing WebAdvisor then choosing “Pay Online” and selecting the appropriate semester plan under “Payment Plans” at the top of the page. Acceptance of the plan agreement will be confirmed by electronic signature at the time of plan enrollment.

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 due dates stated above will be charged a delinquent payment 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. Refunds will not be made for any class dropped after the twelfth class day during the fall and spring semesters or after the second class day during each short term. Full refunds will be given for classes dropped prior to these days provided the student remains enrolled in other credit hours.

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

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

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

Prior to the first class day of the session	100%*
During the first class day of the session	80%
During the second class day of the session	50%
Third 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.

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.

Refund Delivery Method. TWU has contracted with HigherOne to facilitate the delivery of all student refunds for excess financial aid; dropped class refunds; account adjustment credits or withdrawal refunds. Refund checks will not be issued by the University.

A TWUOne/MasterCard dual logo debit card will be sent to students by mail. In order to receive any refund due from the University, the card must be activated online at www.twuone.com and a selection made from one of two methods to receive refund dollars:

- Easy Refund is the most expeditious way to receive any refund. Funds are credited to the One Account the same business day that they are received by HigherOne. The TWUOne Debit card may be used at any merchant or site that accepts MasterCard.
- ACH (electronic transfer) of refund dollars to an existing bank account. This method takes one to three business days.

Financial Aid

TWU maintains an Office of Financial Aid which provides financial assistance to qualified students. Aid may be awarded in the form of work, grants, loans, assistantships, scholarships or some combination of these. In order to assure that a student's financial aid is available at registration, the following application deadlines must be followed:

Academic Scholarships	March 15
Summer Financial Aid	March 15
Fall/Spring Financial Aid	April 15
Spring Financial Aid	September 1

Applications received after the deadlines will be processed; however, the awards may not be ready for payment at the time of registration.

Financial aid recipients must maintain satisfactory progress toward a degree or certification in order to retain their eligibility. Specifically, this means that students receiving financial aid must successfully complete 6 credit hours each semester with a minimum 3.0 grade point average. Grades of 'F', 'I', 'W', and 'WF' will not satisfy this requirement. Failure to meet the minimum grade requirements will result in financial aid probation.

A student on financial aid probation will be permitted to receive aid for one semester. If the student successfully meets the minimum academic standards during the probationary semester, he or she will return to good standing for financial aid purposes. Failure to meet the minimum academic progress standards during the probationary semester will result in the suspension of financial aid eligibility until the standards are met. Students who feel that there were mitigating circumstances beyond their control which impacted their progress may appeal their status to the Director of Financial Aid.

Master's level financial aid applicants may not have registered for, or attempted, more than 54 hours toward a master's degree. Doctoral level financial aid applicants may not have registered for, earned, or attempted more than 90 hours toward a doctoral degree. The maximum hours include all hours at the master's and doctoral level from any institution regardless of whether aid was received. If a graduate student's curriculum requires more course work than the allowable

maximum, a letter from the department chair specifying the total hours required must be submitted to the Office of Financial Aid for re-evaluation of the applicant's maximum eligibility period. For more information, contact the Office of Financial Aid, Texas Woman's University, P.O. Box 425408, Denton, TX 76204-5408, or go to www.twu.edu/finaid/.

Graduate Assistantships

The University provides a limited number of teaching and research assistantships for qualified graduate students. Stipends vary according to assignment and educational level of the applicant.

Applications for assistantships may be secured from the Graduate School website at www.twu.edu/gradschool/applying-for-asst.asp. The application must be filed with the head of the academic component for review and recommendation.

A graduate student on scholastic probation may not hold a graduate assistantship.

A person who holds a full-time position may not hold a graduate teaching assistantship. A person who holds a full-time position may hold a graduate research assistantship.

International students must demonstrate English speaking proficiency through one of the following in order to hold a graduate teaching assistantship:

- score of 26 or higher on the TOEFL iBT speaking section
- score of 50 or higher on the Test of Spoken English (TSE)
- score of 7.5 or higher on the IELTS Speaking Test
- score of 4 or higher on the MELAB Speaking Test.

The maximum course load for a student who holds a graduate assistantship of approximately half time is 12 semester hours. The recommended course load for a graduate assistant with a work load of approximately half time is nine semester hours. The minimum course load for a graduate assistant with a work load of approximately half time is six semester hours. Graduate students who are enrolled for professional paper, thesis, or dissertation will be permitted to register for the number of hours required by their programs so long as clear evidence of progress on the research paper can be demonstrated.

A student who holds a graduate assistantship at the Texas Woman's University may not hold a graduate assistantship at any other college or university concurrently.

A student who holds a graduate assistantship at the Texas Woman's University may not hold a student assistantship at the University concurrently, unless approved by the Dean of the Graduate School.

A graduate teaching assistant who is working toward the master's degree may be assigned to work in undergraduate courses only. A graduate teaching assistant who holds the master's degree and is working toward the doctoral degree may be assigned to work with undergraduate courses. Only under extremely unusual circumstances or in cases of demonstrated expertise or experience may a graduate teaching assistant working toward the doctorate be assigned to work with master's level courses. This arrangement must be reviewed and approved in advance by the Dean of the Graduate School. A graduate teaching assistant may not be assigned to work with doctoral level courses. An exception at the discretion of the Dean of the Graduate School may be made in the case of graduate assistants who have demonstrated unusual expertise or experience.

Scholarships

The University annually awards a large number of scholarships which have been made possible by generous alumni and friends of the University. Applications for financial aid, including scholarships, are available online at www.twu.edu/finaid/. Applicants for scholarships, which indicate a particular academic major, may obtain information and applications from that academic component. Applicants may apply for all other scholarships online at www.twu.edu/finaid/ by the deadline of March 15.

Chancellor's Endowed Scholarship: The most prestigious scholarship awarded by Texas Woman's University to outstanding new full-time students (entering freshmen, undergraduate transfers, and graduate students) on the basis of outstanding academic achievement and leadership/service in school or community activities; awarded by the University Scholarship Committee on the basis of merit without regard to financial need.

Charles Rodney Albert Memorial Scholarship: Awarded annually to an outstanding graduate or undergraduate student majoring in the Department of Sociology and Social Work, this scholarship was established by the family and friends of Dr. Albert, an associate professor of sociology in the Department of Sociology and Social Work from 1974 to 1981. The recipient of the scholarship will be selected by the scholarship committee of the department.

Marguerite Dickson Barber Science Scholarship: Established by Col. Lewis B. Barber in memory of his late wife, Mrs. Marguerite Dickson Barber. This fund provides awards to outstanding students majoring in the sciences.

Robert O. Benfield Endowed Memorial Scholarship: Established by Patrice Benfield Frisby and friends in memory of her late husband, Robert O. Benfield, who was Vice President for Fiscal Affairs at Texas Woman's University. A representative of the Fiscal Affairs division along with the TWU General Scholarship committee is responsible for the selection of the recipients. To apply, contact the Office of Financial Aid.

Beverly Enterprises Scholarship: Established by Beverly Enterprises, a major operator of nursing homes, with the hope that more students will become

aware of the need of trained activity directors in the nursing home field. Awards may be granted to students of any level on the basis of merit.

Donna Jean Billington Endowed Scholarship: Established through the provisions of the last will and testament of Donna Jean Billington for students in the field of Library Science.

Phyllis J. Bridges Scholarship: Established by the Mortar Board organization of Texas Woman's University and friends to provide support for graduate English students within the Department of English, Speech, and Foreign Languages.

Sharon Loretta Bocker Endowed Scholarship: Established by Lewis W. Bocker in memory of his daughter, Sharon Loretta Bocker, to benefit graduate students in the Department of English, Speech, and Foreign Languages.

Nita Parker Brogdon Endowed Scholarship: Established by Betty Carter, daughter of Nita Parker Brogdon, and Mrs. Thomas C. Montgomery, sister of Ms. Brogdon, for students majoring in the area of Library and Information Studies. The scholarship committee in the College of Professional Education reviews applications and selects the recipients.

Doris McCarter Brownell Endowed Scholarship: Established by Herbert Brownell and his family and the Kemper Educational and Charitable Fund, provides awards to undergraduate or graduate students who are specializing in or plan to specialize in the field of nutrition and food sciences. Applications may be obtained from the Department of Nutrition and Food Sciences.

Dr. Helen Bush Endowed Nursing Scholarship: Established by students and friends of Dr. Helen Bush, former Dean of the College of Nursing, to provide support for outstanding graduate students in the College of Nursing. The scholarship committee in the College of Nursing reviews applications and selects the recipients.

Business and Economics Endowed Scholarship: Established by LaVerne Collins Chatfield, an alumna of TWU, for students who are majoring in business. Recipients are selected by a committee appointed by the Director of the School of Management. While financial need is a factor in evaluations, academic excellence is the prime requisite.

Susie G. Carlisle Endowed Scholarship: Established through the provisions of the last will and testament of Susie G. Carlisle for students majoring in Family and Consumer Sciences.

John Winston Carter Endowed Scholarship: Established through the estates of Clare C. Casperson and Ruth Carter Slack in memory of their brother, John Winston Carter, for students majoring in nursing at the TWU Houston Center. Recipients are selected by a committee representing the College of Nursing in Houston.

LaVerne Collins Chatfield Endowed Scholarship: Established by LaVerne Collins Chatfield and her husband, Alfred, to provide scholarships for students majoring in business and economics. The scholarship committee in the School of Management shall review applications and select the recipients.

Johnnie Christian Endowed Scholarship: Established through the will of Dr. Johnnie Christian, a 1926 alum of TWU and former faculty member, to support

scholarships for undergraduate and graduate students; applications may be filed in the Office of Financial Aid by March 15.

Sarah Verna Cox Coffey Endowed Scholarship: Established by Fred A. Coffey, Jr., Penelope C. Farris and Robert M. Coffey in memory of their mother. This fund provides full academic scholarships for full-time undergraduate or graduate students majoring in music, with a preference in piano. The recipient shall be selected by the School of the Arts scholarship committee.

Sarah Lucretia Cowan Endowed Scholarship: Established in memory of Sarah Lucretia Cowan by her sister, Helen Cowan Huggins, to support at least one full academic scholarship annually for students within the area of Family and Consumer Sciences. If no one qualifies within the area of Family and Consumer Sciences, then the scholarship can be awarded to any major at Texas Woman's University.

Nancy Johnson Coyle Endowed Scholarship: Established by Thomas Douglas Coyle, friends and family, in memory of his late wife, TWU student Nancy Coyle. This fund provides tuition for students in the master's program of Women's Studies.

Josephine Henry Cox Scholarship Endowment Fund: Established through the provisions of the last will and testament of Josephine Henry Cox to benefit scholarships. Recipients are selected by the TWU General Scholarship Committee.

Ruth Martin Crary Endowed Scholarship: Established in memory of Ruth Martin Crary by Janet Johnson and Milton L. Martin for undergraduate or graduate students. For more information contact the Office of Financial Aid.

Gabrielle and Joseph Crighton Endowed Scholarship: Established by a very dear friend of Gabrielle and Joseph Crighton for students interested in studying dyslexia or majoring within the area of Early Childhood and Special Education. To apply, contact the Office of Financial Aid.

Curry Endowed Award: Established by Mikel Curry to provide an award based upon financial need for single parents with dependent children enrolled at Texas Woman's University.

Ethelyn Davis Graduate Fellowship in Sociology: Established by Dr. Ethelyn Davis to provide support for a graduate student pursuing full-time studies in the field of sociology. The recipient may not have a teaching assistantship or research assistantship. The recipient will be expected to prepare a research paper for publication or presentation at a regional or national professional meeting. For more information contact the chair of the Sociology and Social Work Program.

Dawson Endowed Scholarships: These full academic scholarships given by Dr. and Mrs. John Dawson, Sr., and Dr. and Mrs. Donald C. Dawson are provided through the Dawson Endowment to help fund the education of students who are single parents and who reside with their children in the single parent housing at TWU.

Professor and Mrs. John L. Dawson, Sr. and Dr. and Mrs. Hubert G. Driggs Endowed Scholarship: Established by Dr. John L. Dawson, Sr., former

TWU professor of History and Government, and the late Dr. Hubert G. Driggs. This fund provides scholarships in the Department of History and Government of Texas Woman's University. The scholarship committee within the Department of History and Government shall select recipients.

Edith and Edgar Deen Endowed Communications Scholarship: The Fort Worth Chapter of the TWU Former Students Association and friends of Mr. and Mrs. Edgar Deen established a permanent fund to support an annual scholarship to be awarded a student who shows promise in creative or expository writing.

P. C. and Josephine Del Barto Endowed Scholarship: Established by the Del Barto-Tramonte Foundation, provides scholarships for students in the fields of nursing, education, health, and kinesiology. Recipients are selected by each area.

Delta Kappa Gamma Scholarship: The state organization of Delta Kappa Gamma has established the Lalla M. Odom Scholarship, the recipient to be named by the society.

D. Genevieve Dixon Library Science Endowed Scholarship Fund: Friends, faculty, and staff of the Texas Woman's University established this scholarship to honor Miss D. Genevieve Dixon. It is to be awarded annually to a student majoring in library science.

Mary Lynn Walker Drews Endowed Scholarship: This endowed memorial scholarship is to be awarded to a graduate student in health studies who shows promise as a potential health educator. This annual endowed scholarship was established by the family and friends of Mary Lynn Walker Drews. The recipient(s) will be determined by a committee composed of two faculty members and one second year graduate student in the area of Health Studies.

Anne Schley Duggan Endowed Scholarship: Established by alumnae, faculty, and students of Texas Woman's University and by family, friends, and colleagues of Dr. Duggan to cite her accomplishments as an educator, professional, leader, author, lecturer, administrator, and friend. Recipients of the award must be full-time students pursuing a degree in health sciences or kinesiology. This award is reserved for those students above the sophomore level.

Betty Igo Duncan and Diane Elizabeth Duncan Endowed Scholarship: Established by Betty Igo Duncan and Diane Elizabeth Duncan to provide scholarships for undergraduate and graduate students specializing in the field of nutrition and food sciences and who are in financial need. The recipient is selected by a committee representing the Department of Nutrition and Food Sciences.

Mary Anne Carter Duke Ebert Endowed Scholarship: Established by Mrs. Mary Anne Ebert, an alumna of TWU. Scholarships are awarded to students who are juniors, seniors or graduate students majoring in nutrition. Recipients will be selected by the Department of Nutrition and Food Sciences upon demonstrating need and outstanding performance.

Rowena Caldwell Elkin Endowed Scholarship: Established in memory of Rowena Caldwell Elkin, an alumna of TWU, by her husband, Dr. P. Bush Elkin, and family to provide support for students whose majors are within the Department of Visual Arts. The scholarship committee in the Department of Visual Arts reviews applications and selects the recipients.

Alumnae Emerson Work Scholarship: Established by Ms. Helen W. Henry in memory of Mr. Frances W. Emerson, a former Dean of Admissions and Registrar. Scholarship recipients are recommended to the Director of Financial Aid by the Director of Alumni Relations.

Maurine Faulkner Endowed Scholarship: Established by the late Maurine Faulkner to support two or more scholarships for junior through graduate status students who are studying Spanish or majoring in Nutrition and Food Sciences or Mathematics.

Dr. Robert Fuerst Endowment: Established by Dr. Mary A Tokoly to provide scholarships for students and faculty in the Department of Biology. The scholarship committee for the Department of Biology reviews applications and selects the recipients.

Lavon B. Fulwiler Endowed Scholarship: Established in honor of Dr. Lavon B. Fulwiler, former Chair of the Department of English, Speech, and Foreign Languages, for students whose majors are within that department. To apply, contact the chair of the department.

Galvan Endowed Scholarship: Established by Juliet Logan, an alumna of TWU, for all majors enrolled at TWU. Applications are filed in the Office of Financial Aid by March 15.

Grace Emanuel Gilkeson Endowed Fellowship: Established by family and friends of Dr. Grace Gilkeson, former Dean of the School of Occupational Therapy, to support student(s) seeking a Ph.D. in Occupational Therapy. To apply, contact the Director of the School of Occupational Therapy.

Mary Beth Glover Endowed Scholarship: Established by Mary Beth Glover-Wilson, alumna class of 1962. This fund provides support of which 50% shall be used for the School of Management with special consideration for accounting, 25% for Visual Arts and 25% for Music and Drama for the music program in the School of the Arts.

Kathleen May Gonzalez Endowed Scholarship: Established by the late Kathleen May Gonzalez, a graduate of the College of Industrial Arts – now Texas Woman's University – for students majoring in any field of study at TWU; applications are filed in the Office of Financial Aid by March 15.

Joyce Elaine Grant Photography Exhibition Endowed Scholarship: Established by the Photographic Artists Coalition at TWU to support scholarships for graduate photography students in Visual Arts.

Margaret Griffin Doctoral Endowed Scholarship in Reading: Established by the faculty of the Reading Program to honor Dr. Margaret Griffin upon her retirement as faculty from Texas Woman's University. The scholarships are for admitted doctoral students who major in Reading.

Ruth Adkisson Hare Endowed Scholarship: Established in memory of Mrs. Ruth Hare, 1941 alumna of TWU, to provide scholarship funds to TWU students majoring in nutrition or textiles or human development who are natural born citizens. Scholarships are to be based upon academic achievement and financial need.

Karen Harrison Memorial Scholarship: Established by the Graduate Library and Information Studies Association in memory of an outstanding student, Karen Harrison; awarded to students who show high academic achievement, financial need, and are beginning a program in library education at the graduate level. Contact the College of Professional Education or the Office of Financial Aid.

Mildred McCauley Hawk Scholarship Endowment in Reading: Established by Linda Loveless Hughes, MD, Mr. Curtis Loveless and Mr. David Boyd to provide scholarships for students in the Reading Program.

Ardella R. Helm Endowed Scholarship: This scholarship was established through the provisions of the last will and testament of Ardella R. Helm for students who are studying Family and Consumer Sciences.

Joan Mansfield Henkhaus Endowed Scholarship: Established by Driscoll A. Henkhaus in memory of his wife Joan Mansfield Henkhaus. This fund provides full academic scholarships covering the total cost of tuition and fees for students majoring in fields within the Department of Family Sciences and the Program in Fashion and Textiles. The scholarship committees within each of the departments will select the recipients.

Irene Bollier Herrington Memorial Scholarship: This annual award is provided by the family of Irene Bollier Herrington, member of the class of 1926, and it is reserved for a student in the graduate program of physical therapy. Recipients are selected by the School of Physical Therapy.

Kate Adele Hill Scholarship Fund: Established through the provisions of the last will and testament of Kate Adele Hill to be used for scholarships. Recipients are selected by the TWU General Scholarship Committee.

Marilyn Hinson Scholarship: Established to provide awards to graduate students pursuing a degree in the fields of health sciences, kinesiology, or dance. Applicants must have a cumulative grade point average of 3.0 or higher and must show evidence of professional promise.

Thelma Van Trease Hook Endowed Scholarship: Established by Mrs. Thelma Van Trease Hook in honor of the TWU class of 1922. The scholarship is to be awarded to TWU students who are children of (or descendants of) members of the 1922 class of TWU. If a sufficient number of applicants are not available in any given year or term, the University may approve other needy applicants.

Sam Houston Memorial Hospital Auxiliary Endowed Scholarship: Established by the Sam Houston Memorial Hospital Auxiliary to provide scholarships for students on the TWU Houston Campus. A limited number of awards are made annually. Interested students should contact the financial aid counselor on the Houston campus.

Houston Center Emergency Nursing Scholarship: Established by the American Association of Occupational Health Nurses, Inc. to provide funds on an emergency basis to needy students. Applicants should contact the financial aid counselor on the Houston Center Campus.

Natha Howell Endowed Scholarship: Established by Ms. Natha Elizabeth Howell to provide funds to be used for the education and preparation of students becoming teachers. Recipients must be enrolled in a program of teacher education.

L. H. Hubbard Graduate Endowed Scholarship: Established by student groups as an evidence of esteem for Dr. L. H. Hubbard during his tenure as President of the University.

Hufford Endowed Scholarships: The will of the late Dr. Mary Ameta Hufford, Dean of Women at Texas Woman's University, provided for the establishment of a fund which is the source annually of scholarships reserved for needy TWU students above the freshman level who have maintained at least a 3.0 average.

Ralph Johnson Endowed Scholarship in Library Science: This scholarship, reserved for a graduate student in library science and awarded periodically, is provided by a fund established at the University by Mrs. Elizabeth Shepherd Johnson in memory of her husband, Ralph Johnson.

Dr. Leslie R. Kreps Endowed Scholarship: Established by Betty Kreps in memory of her husband, Dr. Leslie Kreps, to provide financial assistance to graduate students who are English majors and have been admitted to the Master of Arts degree program or the Doctor of Philosophy degree program. Preference will be given to applicants who display superior ability and strong interest in rhetoric.

Ray and Bertha Lakey Endowed Scholarships: Established by the will of the late Mrs. Bertha Lakey to provide for the establishment of a fund which annually provides a number of scholarships for worthy women seeking a college education.

Bertha and Morris Levy Scholarship: Established by Mrs. Orien Levy Woolf of Dallas, TX, an alumna who graduated with a major in sociology. It is awarded annually to an advanced or graduate student majoring in sociology.

Library Science Graduate Endowed Scholarship: The Ex-Student Library Science Chapter of Texas Woman's University has established a permanent fund to provide an annual scholarship to a graduate student in Library and Information Studies.

Aileene S. Lockhart Endowed Scholarship: Established by Dr. Aileene S. Lockhart, former Dean of the College of Health, Physical Education, Recreation, and Dance, for graduate students majoring in dance; if no graduate students qualify, then undergraduate students are selected by a scholarship committee within the Department of Dance.

Dr. Helen A. Ludeman Endowed Scholarship: Established by Alice Spencer, Dr. Ludeman's sister, and her husband, Don Spencer, for students majoring in chemistry. To apply, contact the chair of the Department of Chemistry and Biochemistry.

Nora Edna Manning Scholarship Endowment: Established by Dr. Mary Evelyn Blagg Huey to support scholarships within the School of Arts, with an emphasis on music and/or art majors. Selection of the recipient(s) shall be made through the discretion of the Scholarship Committee within the School of the Arts.

Ann Talbot McLemore Endowed Scholarship: Established by Dr. Alma McGee in honor of her mother, Ann Talbot McLemore. Recipients must have a grade point average of 3.0 or above and show financial need. Both undergraduate and graduate students may receive this scholarship. Priority will be given first to students in Fashion and Textiles and secondly to those studying a related area.

Mary Cartwright Brown Merrick and Helen Baldwin Bauer Smith Endowment Fund: Established by Mr. Jack R. Merrick to provide scholarships annually for students majoring in sociology, history or the fine arts.

Mary Alice Harris Metcalf Endowed Scholarship: Established by the Fidelis Sunday School Class of Westbury United Methodist Church in Houston, TX, for students enrolled in the College of Nursing at the TWU Houston Center.

Harlan C. Miller Endowed Memorial Scholarship: Established in memory of Dr. Harlan C. Miller. It provides awards to students who are majoring either in mathematics or physics and have a minimum grade point average of 3.0 in their major field and overall. Recipients are selected by the Department of Mathematics and Computer Science.

Roy A. Miller Scholarship: Established by Maria Gabriella Miller and Lucile Miller in memory of their husband and son, respectively, for graduate students whose majors are within the Department of Sociology and Social Work. To apply, contact the chair of the Department of Sociology and Social Work.

Jacquelin Niehuss Scholarship for Physical Therapy: This scholarship was established by the Jacquelin E. Niehuss Foundation, a charitable foundation which serves to provide financial assistance to students in the field of physical therapy. Miss Niehuss, a graduate of Duke University, had been a practicing physical therapist as well as a successful businesswoman in real estate and in the nursing home industry. Recipients are selected by the School of Physical Therapy.

Nursing Scholarship for Graduate Students: Awarded to a doctoral nursing student. The recipient of this scholarship, which is paid in monthly stipends, is chosen by the Dean of the College of Nursing.

Pacesetters of Greater Lewisville Endowed Scholarship: Established by Pacesetters Business Women's Association of Denton County, Texas, this fund supports female residents of Lewisville, Flower Mound, and Highland Village, in Denton County, Texas, who are at least twenty-one (21) years of age.

Maude Hemperley Pettit Endowed Scholarship: Established by Jean Pettit Smith in honor of her mother, Maude Hemperley Pettit, for students majoring in business. The selection of recipients is handled by the scholarship committee in the School of Management.

Physical Therapy Scholarship: Established by the School of Physical Therapy. Recipients must have a cumulative grade point average of 3.0 or better and a grade of 'C' or better in all prerequisite course work with no repeat course work. Financial need will also be considered. Applicants must submit a copy of their academic transcript and a statement outlining their educational expenses to the Director of the School of Physical Therapy.

Rosabelle Ragin Pridmore Endowed Memorial Scholarship: Established by James A. Pridmore in memory of Rosabelle Ragin Pridmore, a former TWU student, provides awards to deserving undergraduate and graduate students. Preference is given to students studying music. Recipients are selected by the scholarship committee of the Department of Music and Drama.

Gerry F. Pullium Endowed Scholarship: Established by H. H. Pullium, in memory of his wife, Gerry F. Pullium, a TWU alumna, for students majoring in

occupational therapy. Recipients are selected by the scholarship committee in the School of Occupational Therapy.

Flora Nell Roebuck Endowment: Established through the last will and testament of Flora Nell Roebuck to benefit students based on academic excellence, financial need and high quality of interpersonal and social skills and who's dedicated to the education of the "whole child".

Ila Bost Roebuck Endowment Fund: Established through the provisions of the last will and testament of Flora Nell Roebuck to benefit students dedicated to English grammar teaching in public secondary schools.

M. Don Ryan Endowed Scholarship for Speech Pathology and Education of the Deaf: The recipient of this scholarship shall be selected by the faculty of the Department of Communication Sciences and Disorders, and be awarded this honor because of financial need, high level of performance, professional ethics and expertise in the chosen field. Scholarships are awarded on an alternating basis to students majoring in Speech-Language Pathology and Education of the Deaf.

Sammons Endowed Fellowships for the School of Occupational Therapy: Established by Frederic W. Sammons to support endowed fellowships for graduate education of outstanding occupational therapy students. To apply, contact the Director of the School of Occupational Therapy.

Mabel Pearson and Charles H. Saunders Endowed Scholarship: Established by Mabel Pearson and Charles H. Saunders to support scholarships for women who major in business and/or economics. Applicants must demonstrate academic potential and the need for financial support. The scholarship committee in the School of Management reviews applications and selects the recipients.

Ivalene and Robert Sherrill Physical Education Scholarship: Established by Dr. Claudine Sherrill in honor of her parents. This competitive scholarship is awarded annually to a student commencing graduate work in Adapted and Developmental Physical Education with an outstanding record of service for disabled persons. The recipient is selected by the Department of Kinesiology.

The Alvin A. Smith, Dora Mae Smith, and Bettie Smith Mischen Dunbar Memorial Education Scholarship Endowment: Established by Mr. David H. Dunbar to provide scholarships to assist worthy students in the pursuit of an Education degree majoring in administration, math, elementary education or English.

Clara Belle Michael Smith Drama Scholarship Fund: The Department of Music and Drama designates the recipient of this scholarship which will be awarded annually to juniors, seniors or graduate students of proven ability in the dramatic arts. This fund is provided by Mr. James Stephen Smith in memory of his mother, a 1942 graduate of the Texas State College for Women.

Rose Marie Smith Endowed Scholarship for Student Teachers in Mathematics and/or Computer Science: Established by the North Texas Council of Teachers of Mathematics in honor of Dr. Rose Marie Smith, former chair of the Department of Mathematics and Computer Science at TWU. This endowment provides for two annual scholarships for students during their student teaching experience in mathematics and computer science. The scholarship committee in

the Department of Mathematics and Computer Science reviews applications and selects recipients.

Hazle Ruth Snodgrass Endowed Scholarship Endowment: Established by Lawrence and JoSusan Gekiere and Roger Gekiere in memory of JoSusan's mother, Hazle Ruth Snodgrass, for students majoring in art.

Marion E. Jones Snowden Endowed Memorial Scholarship: Established in memory of Marion Elizabeth Jones Snowden, a former student of TWU. Recipients must show financial need and be majoring in the field of music. Recipients are selected by the Scholarship Committee for the School of the Arts.

Mary Ethel Sowers Endowed Nursing Scholarship: Established by Mary Ethel Sowers to provide scholarships to students in the College of Nursing.

Patricia George Sparks Endowment: Established by Mr. Albert K. Sparks to provide support to general scholarships with preference given to students majoring in chemistry.

Coreen Mary Spellman Delta Phi Delta Scholarship in Art: Established by the Delta Phi Delta Art Fraternity in honor of Miss Coreen Mary Spellman, a long time TWU faculty member who initiated and sponsored the Delta Phi Delta Fraternity from 1940 to 1974. An annual scholarship is to be awarded to the member of the fraternity who has achieved the highest academic rank.

Jacque E. Ramsey Scholarship Endowment Fund: Established by Steven Ramsey in memory of his wife. This fund provides scholarships for students whose majors are within the Department of Family Sciences. The scholarship committee within the Department of Family Sciences shall select recipients annually.

Lillian Rizzo Spicola Scholarship: Established to provide scholarships for undergraduate or graduate students majoring in reading in the TWU College of Professional Education. Recipients must demonstrate financial need, high scholastic ability, and a personal commitment to teaching. Students wishing to apply should send two letters of recommendation, a handwritten statement of the importance of teaching reading, and evidence of monetary need to the Department of Reading.

Alleen Yearly Standifer Endowed Scholarship: Mrs. Hewitt B. Fox (Margaret Standifer) established this annual scholarship in memory of her mother, Alleen Yearly Standifer, who graduated from TWU in 1911 with a degree in Home Economics. The scholarship is awarded to an outstanding graduate student in the Department of Nutrition and Food Sciences.

Spencer L. Stoker Graduate Endowed Scholarship: Established by the estate of Dr. Spencer L. Stoker, provides awards to graduate students in education. Dr. Stoker served the University as Chairman of the Education Department for many years. He is remembered as a dedicated and caring teacher and a fine administrator. Recipients are selected by the College of Professional Education.

Bonnie Strauss Scholarship for Occupational Therapy: Established to provide scholarships for students majoring in the field of occupational therapy; selection of recipients is handled by the scholarship committee in the School of Occupational Therapy.

Ann Stuart, Ph.D. and Ray R. Poliakoff Scholarship Endowment Fund: Established to provide scholarships for students who demonstrate significant finan-

cial need, must score 1050 or more on the SAT or equivalent score on the ACT.

E. Anne Sugars Endowed Scholarship: Established by Eileen Kopp, an alumna of TWU. This fund provides scholarships for students whose studies are within the area of adapted physical education.

Margaret Swinburne Endowed Memorial Scholarship: Established by the family and friends of Margaret Swinburne, provides scholarships to graduate nursing students. Recipients are selected by the College of Nursing.

Rebecca S. Switzer Graduate Endowed Scholarship in Spanish: This scholarship, established in honor of Rebecca S. Switzer, is reserved for graduate students studying Spanish. Recipients are selected by the chair of the Department of English, Speech, and Foreign Languages.

Texas Woman's University General Scholarships: These scholarships in varying amounts are awarded annually to deserving students with outstanding high school or college records.

Texas Woman's University Foundation Scholarships and Fellowships: From funds of the Texas Woman's University Foundation, a substantial number of scholarships and fellowships are awarded annually to deserving applicants of exceptional promise who need financial assistance in order to attend the Texas Woman's University.

Joyce Thompson Endowed Memorial Scholarship: Established by the Department of English, Speech, and Foreign Languages to be awarded to undergraduate/graduate students majoring in English.

Clarice Mixson Turner Endowed Scholarship: Established by F. Earl Turner in memory of his wife and a TWU alumna, Clarice Mixson Turner, for students with majors within the College of Arts and Sciences; first preference is to be given to those students majoring in English. Recipients are selected by a scholarship committee in the Department of English, Speech and Foreign Languages.

Dr. G. Ann Uhlir Endowed Fellowship for Higher Education Administration Fund: Established by G. Ann Uhlir. This fund provides annual support for a fellowship in higher education administration to a TWU academic administrator, faculty member or student.

Reba M. Wadel Scholarship: Established by the Greater Dallas Section of the National Council of Jewish Women for graduate students in the Department of Family Sciences.

Peggy and L. M. Waddell Endowed Scholarship: Established by Dianne W. Sawyer, M.D., an alumna of TWU, in honor of her parents for students who are pre-med or science majors with need. To apply, contact the Director of Financial Aid.

Autrey Nell Wiley Endowed Memorial Scholarship: Established by Dr. Lucyle Hook in memory of Autrey Nell Wiley to be awarded to undergraduate/graduate students majoring in English.

Claudia G. Williams Endowed Scholarship: Established by friends of Claudia G. Williams, provides scholarships for graduate students eligible for admission to any graduate program in nutrition and food sciences, or human development.

Kathryn and Alex Williams Endowed Scholarship: Established by Kay Williams Goodman, former member of the TWU Board of Regents and an alumna, and her husband Robert Goodman, in memory of her parents, Kathryn and Alex Williams, for students whose majors are within the Department of Teacher Education. The scholarship committee within the department reviews all applications and selects the recipients.

H. W. Wilson Library Science Scholarship: Established by the H. W. Wilson Foundation. Recipients are selected by the School of Library and Information Studies.

George and Fay Young Endowed Scholarship: Established to provide support to general scholarships. Recipients are selected by the TWU General Scholarship Fund.

Dallas Woman's Club: The Dallas Woman's Club has several scholarships available to students with financial need who show academic excellence. All applicants are required to be Texas residents.

The Texas Society for Crippled Children and Adults Scholarship-Loan: Two scholarships are offered annually to seniors or graduate students who are full-time residents of Texas, have a good scholastic standing and plan to enter the profession of physical therapy for at least one year. The scholarship becomes a loan to be repaid if the student recipient does not complete the physical therapy program and practice such profession in Texas for at least one year following the completion of the course of study.

Grants

Texas Public Education Grant: This grant is awarded on the basis of financial need. Awards range from \$100 to \$1,600 depending upon the student's eligibility.

Graduate Board Authorized Tuition Grant (GBAT): GBAT is a Texas Grant that is awarded to graduate Texas residents based upon financial need. Recipients must be enrolled at least half-time (6 hours/semester) in a degree or certification program, unless all regular coursework has been completed and less than half-time enrollment is in professional paper, thesis or dissertation. The average award is \$1,600 annually. Recipients receive funds by credit to their university account.

TEACH Grant: This grant is available to students who are enrolled in coursework necessary to begin a career in teaching. Applicants must have a cumulative 3.25 GPA, or higher, each semester and have a score above the 75th percentile on an admissions test such as the SAT, ACT or GRE. Recipients must agree to teach for at least four years in a specified subject area (mathematics, science, foreign language, bilingual education, special education, as a reading specialist or other "high need" fields.) **If service is not met, the grant must be repaid as an Unsubsidized Direct Stafford Loan, with interest from the date(s) of original disbursement. A Free Application for Federal Student Aid (FAFSA) is required.**

Student Loans

The University administers loan programs whereby graduate students can borrow a substantial part of the expenses of pursuing graduate study. Repayment of loans begins six months after the recipient has ceased enrollment as at least a half-time student (6 credit hours per semester).

Hinson-Hazlewood College Student Loan Program: The University participates in the state loan program (HHCSLP) which was authorized by an amendment to the state constitution on November 2, 1965. Students who are legal residents of Texas and those eligible to pay Texas resident tuition rates may apply for this type of loan. For information and application forms, go online to www.twu.edu/finaid/.

Perkins Loan: The University participates in the Perkins Loan Program authorized by the National Education Act of 1958 (Public Law 85-864) as amended by the Education Amendments of 1976 (Public Law 94-482). For information, go to the Financial Aid website, www.twu.edu/finaid/.

Nursing Student Loan Program: The University participates in the Nursing Student Loan Program which was established by the Nursing Training Act of 1964. Nursing students only are eligible for this type of loan. For information, go to the Financial Aid website, www.twu.edu/finaid/.

The Ella Kate and Wallace Ralston Medical and Nursing Student's Loan Fund: The Ella Kate and Wallace Ralston Medical and Nursing Student's Loan Fund was established under the will of the late Ella Kate Ralston of Houston, TX. Mrs. Ralston was the widow of Dr. Wallace Ralston, a prominent Houston physician who specialized in diseases of the eye until his death in 1951. To the extent funds are available, this fund provides loans to full-time medical or nursing students who are Texas Residents and citizens of the United States. Loans up to \$5,000 annually for medical students and up to \$2,000 annually for nursing students are awarded on the basis of financial need. Preference will be given to junior and senior students, but loans may be granted to sophomores if funds are available.

Unsubsidized Federal Direct Stafford Loan: This loan is available to independent undergraduate students or graduate/professional students. Interest accrues from the date of disbursement at a variable rate not to exceed 9% annually. The federal government sets the rate each year. Students may borrow up to \$20,500 annually with an aggregate maximum of \$138,500.

Federal Direct Graduate PLUS Loan: This loan is available to degree or certification seeking students, enrolled half-time or more, who have exhausted their annual eligibility for and the Federal Unsubsidized Stafford Loan. A credit check is required and a FAFSA must be completed. Students may borrow up to the cost of attendance minus other aid received. Repayment begins 60 days after the final disbursement of the loan, but may be deferred during continued half-time enrollment. Interest payments not made during periods of enrollment or deferment will be capitalized.

Emergency Loan Fund

To be eligible for a loan, a student must be enrolled or accepted for enrollment at the University. These loans are restricted to the payment of University charges for tuition, fees, room and board. These loans are of a short-term emergency nature and must be repaid within 60 days. The rate of interest is three to five per cent depending upon the source of funds.

Information and online applications are available through the TWU Pioneer Portal.

Financial Aid Refunds and Repayments

Financial aid recipients who enroll and receive aid for a particular semester, then fail to complete more than 60% of that semester, will have 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 a semester.

Examples of refund and overpayment calculations for financial aid recipients may be obtained from the Office of Financial Aid.

Financial Aid Overawards

In accordance with federal law, financial aid awards will be revised if the recipient receives awards in excess of documented financial need.

Services Available to Students

University Housing

The residence halls at Texas Woman's University provide a wide range of choices in student living styles, including traditional residence hall rooms with private bathrooms, single and double occupancy studio suites, and two and three bedroom apartments. They offer a variety of facilities for residents including living rooms, TV and study lounges, pianos, local telephone service, vending machines, refrigerators in student rooms, computer facilities, and laundry rooms. Connection to the University computer system and the internet is available from all student rooms and apartments.

Family Housing

Family Housing at Texas Woman's University provides living options for married students and for single parents and their children. Married couples and single parents with a maximum of three children may reside in the Lowry Woods Community apartments. Married students without children may reside in a traditional room or a studio suite in Guinn Hall.

The Clubhouse – After School and Summer Children's Recreation Program

An after-school and summer recreation program (The Clubhouse) is available for elementary school-age children (5-12) of TWU students residing in family housing or off campus. The program provides supervised and structured recreation experiences for children from 3 to 6 p.m. Monday through Friday for the fall and spring semesters. During the summer, The Clubhouse operates from 7:30 a.m. to 5:30 p.m. Monday through Friday. A registration fee is charged per semester or summer term for this program.

Guest Housing

Guest and conference housing is provided on a space-available basis in Guinn Hall. Commuter students are limited to a maximum of three consecutive nights per stay. Students, parents, and staff are invited to take advantage of this service.

Room and Single Student Apartment Assignments and Contract

Students may elect to contract a residence hall space on an academic year basis. Students who are graduating may apply for a one semester agreement. Assignments to residence halls are made on a space-available, first-come, first-served priority based on the date that the application, a \$25 nonrefundable application fee, and a \$100 room deposit are received at the Department of University Housing.

Family Housing Apartment Assignments and Contract

Family Housing Apartment contracts run from one semester to twelve months and are renewable. Assignments are made from the apartment waiting list on a date-order basis. The apartment application, along with the \$25 non-refundable application fee and \$100 deposit, must be received before a student can be considered for an apartment.

Budget Facts

Texas Woman's University keeps student costs at a minimum. Rates are available through the Department of University Housing for the regular fall and spring semesters and the summer terms. A four-payment installment plan is available for housing and food service charges for the fall and spring semesters.

Food Services

Dining services on the Denton campus are available in the Garden Room, Chick-Fil-A, The Underground and the Baker's Dozen of the Student Union, the C-Store at the Guinn-Stark Commons, and the kiosks in CFO and MCL academic buildings. Food service is also available at the Houston and Dallas campuses. Denton campus students who are under the residency requirement are required to purchase a meal plan. Meal plans are also available for commuter students. For further information on meal plan options, contact the Food Services Director, Texas Woman's University, P.O. Box 425380, Denton, TX 76204, 940-898-3565.

ID Card/Pioneer Card

The TWU student identification card is issued upon payment of fees for the first semester a student is enrolled. All students are required to carry a TWU student ID card and to make it available upon request to academic and administrative officials. The TWU ID Card is non-transferable. There is a \$10.00 replacement fee for lost, stolen, or discarded IDs. If you have a video image photo ID card from a previous semester, activation is updated automatically based on enrollment.

Student IDs at the Denton campus are distributed at the ID Card Office in the Department of University Housing, 3rd floor Jones Hall, 940-898-3565. Dallas campus IDs are available at the Student Life Office, 3rd floor, 214-689-6690. Houston campus IDs are distributed at the Student Life Office, 2nd floor, 713-794-2157.

Mary Eleanor Brackenridge Student Union

The Student Union is named for Mary Eleanor Brackenridge, a strong advocate of the advancement of women. She was appointed to the first Board of Regents, and she was president of the Texas Woman Suffrage Association from 1913 to 1914.

The Student Union at TWU provides facilities and services intended to meet the needs of a diverse University community. The Student Union provides students an opportunity to develop leadership skills that provide a foundation for service within and beyond their academic experience.

The following offices are located in the Student Union on the Denton campus: the Center for Student Development, and the offices of the Vice President and the Associate Vice President for Student Life. A notary public service for students, faculty, and staff is available in Room 206 in the building. Legal services for students are available on a part-time basis. Contact the Student Life Office at 940-898-3601 for details. Contact the Student Union office at 940-898-3641 to reserve meeting room space.

The Student Government Association, the Campus Activities Board, and the Student Union Board are also located in the building. Student Union space is also provided on the T. Boone Pickens Institute of Health Sciences Campus and in the Houston Center. Please call the Pickens Institute at 214-689-6503 and the Houston Center at 713-794-2331 for further information about their Student Centers.

Other services in the Student Union on the Denton campus include four dining locations, the TWU Bookstore, ATM machines, computer lab, cyber cafe, a game room, meeting and lounge space, and locker rentals.

Student Government

The Student Government Association (SGA) has a long history of student participation and service to the University. SGA meetings are held on each campus (Denton, Dallas and Houston) on a regular basis, and all students are welcome and encouraged to attend the meetings. Active participation in SGA committees provides students with an opportunity to play a major role in the decision making on their campus. Students interested in holding a leadership position in SGA must qualify for office according to the standards stated in the Constitution and Bylaws. Elections are held in the fall semester on the Houston campus. Elections are held in the spring semester on the Denton and Dallas campuses. Students should contact the Center for Student Development for specific dates regarding the Denton campus elections. For Houston and Dallas dates, please contact the Student Life Coordinator on the appropriate campus.

Center for Student Development

The Center for Student Development provides leadership development opportunities and promotes student involvement. In addition, the office provides service leadership through outreach programs utilizing a volunteer network that promotes student involvement. Students who are interested in information about volunteer services, campus programs, leadership development or campus organizations should contact the Center for Student Development at 940-898-3626, visit the web at (www.twu.edu/student-development), or come by the office located on the first floor of the Student Union.

Campus Activities Board

The Campus Activities Board (CAB), a branch of the Student Government Association, is a student-run organization responsible for providing activities and programs for the student body and the university community. CAB also provides valuable experiences and opportunities for students to develop personal and professional skills in leadership, time/stress management, and group dynamics. Chair positions and committee memberships are open to all students. Additional information is available in the CAB office in the Student Union, room 116, 940-898-3609.

Leadership Development

Students at TWU are encouraged to take advantage of both the formal leadership development programs and the informal opportunities to develop their personal and professional skills. This approach to leadership ensures that students can tailor their own program to promote their individual needs. Leadership programs, workshops and retreats provide a strong basis for transitions from TWU to the work force after graduation. Participation in the leadership development program is an integral part of a student's college experience.

Graduate Student Orientation

The Center for Student Development offers an annual orientation for new graduate students. For more information, contact the Center for Student Development at 940-898-3626, the graduate orientation website at (www.twu.edu/graduate-orientation), or email at (orientation@twu.edu).

Student Organizations

Involvement in university student organizations allows students to acquire skills such as leadership, communication, and team building. Participating in student organizations is beneficial during a student's collegiate experience and in their role as a citizen within the community. Organizations such as the Student Government Association, honorary societies, sororities, professional organizations, sports clubs, and various special interest groups are vital components in the educational experience at TWU. Participation in student organizations is important to a student's intellectual and professional development. A current listing of the chartered organizations may be obtained from the Center for Student Development. Although student organizations do not receive any university funding, they are afforded the opportunity to apply for student leadership funds through the SGA House of Representatives.

Student Organization Policies and Qualifications

All student organizations must register and update their charters in the Center for Student Development each semester in order to use University facilities and services. An organization will have to go through the New Student Organization Charter process unless it has had chartered status in any of the three prior long semesters. Representatives and advisors from all student organizations are required to attend a meeting at the beginning of the fall semester to obtain important information related to student groups. The *Student Organization Manual*, a complete guide of all student organization policies and procedures, may be obtained through the Center for Student Development. Chartered organizations enjoy the following privileges:

- Access to a student organization mailbox located on the first floor of the Student Union.
- Access to meeting rooms on campus free of charge with the provision that outside groups may not use rooms under a chartered student organization's name.
- Access to information and support through the professional staff members within the Division of Student Life.
- Ability to elect a member of the organization to serve as a representative within the SGA House of Representatives.
- Ability to create a student organization webpage.

Student Events/Programs

Students who wish to have events or programs with attendance of 100 persons or more must adhere to policies stated in the Large Event Policy. Organizations are requested to submit a calendar of events to the Center for Student Development at the beginning of each semester. These activities will be included on a master calendar made available to student groups for planning purposes.

In support of the mission of Texas Woman's University, the Division of Student Life does not allow for planning co-curricular activities during the week prior and the week of final exams. Creating or implementing meetings, programs or activities during this time period may jeopardize students' ability to perform to their highest potential academically.

In addition, the University prohibits the solicitation of funds by student organizations except under conditions defined and approved by the Center for Student Development and the Office of Institutional Development; however, the group may engage in fund-raising activities.

Establishing New Student Organizations

In order to become a chartered organization at TWU, an organization must complete an interest form from the Center for Student Development which is submitted to the SGA House of Representatives for review. An organization, once approved, must adhere to the following policies:

- Shall be open to all TWU students regardless of race, sex, creed, disability, sexual orientation, age and/or sex (National sororities NPC and NPHC groups are exempt from gender discrimination by the Title IX Education Code);
- Shall be led by TWU student officers elected or appointed by the organization;
- Shall have one TWU faculty and/or staff advisers who must be a full-time employee;
- Shall meet a genuine, demonstrated student interest of at least five students; however, CSD recommends ten signatures to show the External Affairs Committee there is true interest in the Student organization.
- Shall uphold all University rules and regulations in addition to all state and federal laws;
- Shall update their organization charter each fall semester and provide the Center for Student Development with a list of new officers in the spring semester (if applicable);
- Shall not be an unsolicited auxiliary of a national organization;
- Shall not use the "Texas Woman's University" or "TWU" name in its title;
- Shall submit an updated local constitution and by-laws on an annual basis. If a group does have a relationship with a national affiliate, a national constitution and by-laws must be submitted on an annual basis. National organizations will need to verify their national affiliation on an annual basis.
- Shall not use TWU's tax ID Number.

Requirements for Elected and Appointed Officers of Student Organizations

Academic and social standards for membership and service as officers of student organizations are stipulated in the respective constitutions and bylaws of each organization. In some cases, such requirements may be above the general University requirements. In order to qualify for elected or appointed posts, a student must be in good standing with the University and must have a cumulative grade-point average of 2.0. In addition, a student must be enrolled for 9 hours as an undergraduate or 6 hours as a graduate student.

Volunteer Services

TWU Volunteer Services seeks to engage students in experiences that address human and community needs. They strive to promote student learning and development through their programmatic endeavors and commitment to a culture of active citizenship.

TWU students, faculty and staff can participate in programs and events sponsored by the office such as: Find Your Fit Volunteer Fair, Lunch & Learn Brown Bag Workshop Series, Fall for Fall Service Day, and Philanthropy Spotlight events. Additionally, Volunteer Services sponsors service-learning opportunities through the Alternative Breaks Program.

For members of the TWU community that are not sure of how to get started in their service, Volunteer Services also does individual consultations to help narrow your search. There are also opportunities for interested parties to apply for a Grass Roots grant to start an on-campus service initiative and/or become a Pioneer Partner and join forces with Volunteer Services on their programs and events. For more information on how you can get involved, please visit www.twu.edu/volunteer-services/ or contact the Volunteer Services Coordinator at 940-898-3593.

Intercollegiate Athletics

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

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

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

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

Intercultural Services

The Office of Intercultural Services (OIS) provides the TWU community with diversity education programs and activities designed to enhance the appreciation for diversity among university students, staff, and faculty. Services include the Cultural Connections Leadership Conference, which is designed to enhance leadership skills and cultural appreciation across all cultures, mentor programs for freshmen and sophomores students, cultural awareness workshops, cultural celebrations and activities, and support for multicultural student organizations. Other resources include the G-Force Mentorship Program, GO Centers, and the TWU Mobile GO Center. OIS is located in Jones Hall, room 200. For more information you may contact us at 940-898-3679, e-mail us at intercultural@twu.edu, or visit our website at www.twu.edu/intercultural-services/.

Student Handbook

The *Student Handbook* identifies policies and procedures governing student rights and responsibilities and provides a variety of information and resources. The *Handbook* is distributed beginning in the fall semester. Students in Dallas and Houston may also pick up *Handbooks* in the Administration office or from the Student Life Coordinators. Copies are available to students in Denton in Room 206 and Room 209 in the Student Union. The *Student Handbook* is also available on-line at www.twu.edu/student-life-office/student-handbook.asp.

University Counseling Services

With offices on the Denton, Dallas, and Houston campuses, the Counseling Center assists students with personal, relationship, and vocational concerns. Professional psychologists provide individual, couples, crisis and group counseling; psychological testing; workshops and presentations; and other special programs designed to meet students' needs. Psychiatric consultation is available as a part of the counseling services when deemed appropriate.

All counseling services are free and confidential to currently enrolled students. A student may request help directly or be referred by faculty or other interested persons. In most cases adequate time will be provided to assist students with their concerns, although the University cannot provide long-term individual counseling. Referral assistance is provided for those individuals needing more extensive counseling than the Counseling Center is able to provide. In Denton, students may visit the Counseling Center in West Jones Hall or call 940-898-3801. In Dallas, students should call 214-689-6655 for an appointment. In Houston, stu-

dents may visit the Counseling Center on the second floor or call 713-794-2059.

The Counseling Center also maintains a number of internet-based resources on its web site. These include on-line workshops students may access at any time, self-help handouts, links to other resources, and more information about Counseling Center services. The Counseling Center web site is: www.twu.edu/counseling/.

Disability Support Services

The office of Disability Support Services (DSS), located in CFO 106 on the Denton campus, provides services for qualified students with disabilities who need assistance in being able to access academic or other programs on each of the TWU campuses. Students are encouraged to contact the DSS office at 940-898-3835 or dss@twu.edu as soon as possible in order to arrange for accommodations to be in place before they begin their program. Students are required to submit an application for services, a class schedule, and documentation that verifies the existence of a disability. The staff in the DSS office will then contact the student to arrange for an intake interview so that together they can determine eligibility for appropriate accommodations. Students who are qualified to receive services will be given an Academic Adjustment letter that they will share with their professors and which outlines the authorized accommodations.

Students needing housing accommodations should contact the Housing Department for any modification requests.

All TWU students who park on campus are required to purchase a TWU parking permit. Those students who have state-issued disability licenses or placards may park in any of the designated accessible parking spaces on campus.

Students at the Dallas and Houston centers may receive assistance with accommodations from the Denton office. Persons needing disability-related assistance from the Texas Department of Assistive and Rehabilitative Services should contact them by calling 940-383-1521 or by writing 1213 N. Locust, Denton, TX 76201, at least three months prior to enrollment.

Student Health Services

The Texas Woman's University Student Health Services (SHS) is centrally located in the heart of the TWU campus in the lower level of Hubbard Hall at 303 Administration Drive. SHS is dedicated to providing quality basic healthcare and preventative services to the students of our University. By providing these services, SHS intends to assist each student in maintaining maximum physical health, so that students may realize, to their fullest, the educational opportunities afforded by the University.

Fees are assessed for office visits, lab services, medication, and medical equipment/supplies. All x-rays are referred to an off-campus facility, and students are responsible for all charges. Student Health Services offers pharmacy services through Drug Emporium in Denton. Prescriptions are delivered to the clinic twice daily for pick-up or mailed to students for a small fee. Students wishing to use the

pharmacy service to fill prescriptions written by personal physicians must complete required pharmacy forms and prescriptions must be brought or faxed to Student Health Services.

For more information regarding healthcare for TWU students, please visit www.twu.edu/student-health-services/.

Health Care – Houston

Students may access medical care in Houston through the University of Texas Health Science Center Student/Employee Health Services. For information on location and hours of operation, contact the UT clinic at 713-500-3267 or the Student Life Coordinator at 713-794-2158.

Health Care – Dallas

Students may access medical care at the Dallas campus through the Concentra Medical Clinic. For information on location and hours of operation, contact Concentra at 214-630-2331 or the Student Life Coordinator in Dallas at 214-689-6696.

Transportation to Student Health Services

Officers from the Department of Public Safety will, on occasion, escort sick or injured students to the Student Health Services. Individuals who are sick or who have minor injuries and can walk with some assistance should be escorted to a vehicle and transported to the Student Health Services. An ambulance is not available to transport students to the clinic, but available if transportation to a local emergency room is necessary. Students with serious injuries, such as broken bones, severe bleeding, prolonged unconsciousness, or spinal injury, should be transported to a local hospital via ambulance.

Health Insurance

An optional health insurance plan is available to TWU students currently enrolled in traditional, face-to-face classes. The health insurance plan is available to enrolled undergraduates taking at least 6 credit hours and graduate students taking at least 3 credit hours; courses may be on-line or traditional classroom setting. Student Health Services is equipped to handle routine medical problems when a student is on campus. Major illness or accidents may require special medical attention or hospitalization that is not available at the University. The University sponsored insurance program covers service on or off-campus for a semester or for a twelve-month period. Students and their parents are encouraged to consider the insurance program, and more information can be obtained by contacting Student Health Services.

F1 and J1 status international students are required to enroll in the university insurance plan as a condition of admission. Other departments in the Health Sciences are considering adding this requirement; students are encouraged to check with their departments.

Health Insurance and Tuberculosis Screening for International Students

As a condition of admission, Texas Woman's University requires all international students to maintain medical and hospitalization insurance for the entire period of their enrollment at TWU. Effective Fall 2006, international students with an F1 or J1 visa status are required to obtain insurance coverage through the University-sponsored Plan. International students will be automatically enrolled in the insurance plan and premiums will be placed onto the student's tuition and fees bill each semester.

International students may request an exception from the University sponsored plan only in the following situations:

- Employed by TWU and covered by employee health insurance;
- Covered by group health insurance through another U.S. employer;
- Sponsored student covered by insurance through their Embassy.

If an exception is granted, a charge for repatriation and evacuation may remain on the student's account, if the alternate health insurance does not include these required benefits.

In order to request an exception, a student must complete the *Foreign Student Insurance (FSI) Request for Exception* form and submit to Student Health Services with a copy of their current insurance coverage. **All Request For Exception forms must be submitted by the 12th class day for the Fall and Spring semesters, and the 4th class day for the summer semesters. Late requests will not be accepted. The Request process must be repeated each semester, and it is the student's responsibility to submit requests in a timely fashion.**

If a student will be out of the U.S. for the entire summer semester and wishes to waive the health insurance for summer a *Special Circumstances – Request for Exception – Out of the United States* form must be submitted to Student Health Services by the 12th class day of the previous spring semester. Late requests will not be accepted.

All new international students are required to be screened for tuberculosis. This TB Blood test may be performed at the TWU Student Health Services or one of its subcontracting health clinics in Dallas or Houston. Alternately, the student may download and print the *Statement of Tuberculosis Clearance – International Students* form from the Student Health Service web site and have their personal physician complete and sign the form prior to traveling to TWU. The student being screened for Tuberculosis will have the additional responsibility of providing a copy of the TB chest clearance form to the TWU International Education Office. For additional information regarding this policy, please contact the Office of International Education.

Meningitis Vaccine

Effective January 1, 2012, Texas law requires that all new entering and transfer college students must receive a vaccination or booster against bacterial meningitis. An entering student also includes a student who has had a break of enrollment of one or more fall or spring semesters. For more information, please visit www.twu.edu/student-health-services/bacterial-meningitis.asp.

Career Services

Career Services Department provides a number of programs and services to educate, develop and assist TWU students in successfully meeting the challenges of an ever-changing world of work. The Department provides career guidance and counseling as well as a wide range of resources including job search guides; workshops and seminars concerning resume writing, interviewing skills and job search techniques; a comprehensive reference area; and access to jobs and cooperative education through on campus recruitment activities and career fairs. Please visit the Career Services website at www.twu.edu/career-services or call 940-898-2950 for additional information or to schedule an appointment.

Career Counseling

Career Counseling is available to assist students with career planning and decision-making. Individual Career Counseling and testing is provided to assist students with conducting an assessment of personality, interest and values and with determining career options to explore. Professional staff conduct regularly scheduled seminars on career planning and decision making.

A Career Resource Library is available to provide students with occupational information. Career exploration materials available to students include career references, directories, books, pamphlets, videotapes, and job search and employer reference materials. Some materials may be checked out from the library.

Job Search/Employment Assistance

Job search and employment assistance is available to assist students and alumni with the job search process and obtaining full-time employment. Students and alumni can meet with professional staff for a resume critique and mock interview. Professional staff also conduct regularly scheduled seminars on developing a resume, interviewing, and preparing for the job search.

Full-time employment opportunities are posted on the Career Services Student Employment website at www.twu.edu/career-services. Career day events are held several times a year in Denton, Dallas, and Houston. The schedule of Career Days is posted on the Career Services homepage – www.twu.edu/career-services.

Student Part-Time Employment

Student Employment at Texas Woman's University is a centralized information center for part-time positions on campus as well as off-campus opportunities. Job announcements for on-campus positions are posted outside Career Services, HDB 2nd floor and on the Career Services website at www.twu.edu/career-services.

Students who are interested in employment on campus are referred to departments by Student Employment and, when hired, must complete a student employment permit and payroll authorization form to be processed for payroll. Students at the Denton Campus may obtain these forms in HDB 200; students at the Dallas Center may obtain their forms in FPH 101; and students at the Houston Center may obtain their forms in IHSB 1300C.

Off-campus positions are posted on the Career Services Student Employment website at www.twu.edu/career-services. There are a wide variety of opportunities available to students. Most positions are in the Denton, Dallas/Fort Worth metroplex areas. The position listings change continuously and students are encouraged to review the website for updated information.

Cooperative Education Program (Internships)

Many academic programs at TWU provide students the opportunity to participate in cooperative education, a program which combines classroom study with practical work experience in an academically related field. More information is available in the General Information section of this catalog or at www.twu.edu/career-services.

TWU Fitness and Recreation

The new Student Recreation Center, which opened in Denton in August 2011, provides a full-service fitness center and recreational programming to the University. Facilities that students may access with their ID cards include three group exercise studios, men's and women's locker rooms, a full size gymnasium with basketball, volleyball, and badminton courts, a 30-foot climbing wall, a lounge with gaming equipment and a large screen TV, an outdoor sand volleyball court, a full-service fitness area with strength training equipment and cardio machines, an outdoor swimming pool, and an outdoor adventure rental center. In addition, the following services and programs are offered for a nominal fee to students: specialized group exercise classes (such as boot camp), intramurals, a golf course, personal training, and outdoor adventure trips. For more information, visit the new Student Recreation Center or the department website at www.twufitnessandrec.com.

Students, faculty, and staff may also use exercise facilities at the Dallas Parkland and Houston campuses including treadmills, elliptical cross-trainers, steppers, stationary bicycles, assorted strength training machines, free weights and group

exercise classes. For more information contact Student Life at Dallas 214-689-6697 or Student Life at Houston 713-794-2157.

Dental Hygiene Clinic

Services of TWU's Dental Hygiene Clinic are available to faculty, staff, students, and the Denton community. For a nominal charge, the Clinic provides the following services: cleaning, periodontal therapy, x-rays, fluoride treatments, sealants, examinations, and oral disease control sessions. The Clinic serves as a laboratory for dental hygiene students and is located on the first floor of the MCL building on the Denton campus.

For more information contact the Dental Hygiene Clinic, P.O. Box 425796, Texas Woman's University, Denton, TX 76204-3796, or call 940-898-2888.

Speech-Language-Hearing Clinic

The Speech-Language-Hearing Clinic located on TWU's Denton Campus provides assessment and therapeutic services to the University and Denton communities. Master's level graduate students under the direct supervision of licensed, certified speech-language pathologists and audiologists provide assessments and individual therapy for language, articulation, voice, stuttering, hearing loss, and feeding for children and adults. During the summer, camps are offered for sensory-based feeding disorders, language and literacy groups, and preschool articulation and phonology groups.

For applications or further information about the Clinic, write TWU Speech-Language-Hearing Clinic at P.O. Box 425737, Denton, TX 76204-5737, call 940-898-2285, or visit the clinic's website at www.twu.edu/communication-sciences/clinics.asp. The clinic is located in MCL 601 on the Denton campus.

Counseling and Family Therapy Clinic

The Counseling and Family Therapy Clinic, housed within the Department of Family Sciences, is open to the public and provides counseling for families, couples, groups, and individuals, both adults and children. Clinical services are provided by doctoral and master's level family therapists and counselors within the department. All therapists and counselors are supervised by clinical faculty who have earned doctoral degrees, are licensed by the state of Texas, and have more than 100 years of combined experience helping people overcome problems.

The Clinic provides an atmosphere of respect and dignity where each individual and family can be effectively served. Fees are assessed on a sliding scale in order that counseling, education, and preventive services are affordable for every family, couple, and individual. For an appointment or more information, call the Counseling and Family Therapy Clinic at 940-898-2600. The Clinic is located in HDB 114 on the Denton campus.

Consumer Information

Information concerning the graduation rate of full-time graduate degree seeking students may be obtained by contacting the Office of Institutional Research and Data Management, P.O. Box 425765, Denton, TX 76204-5765; or online: www.twu.edu/institutional-research/fact-book.asp.

Statistics on the occurrence of on-campus crime and the number of arrests may be obtained by contacting the Department of Public Safety, P.O. Box 425767, Denton, TX 76204-5767, or online: <http://www.twu.edu/dps/statistics.asp>.

Statistics on athletic aid recipients including race, gender, sport, and graduation rates may be obtained by contacting the Vice President for Student Life, P.O. Box 425379, Denton, TX 76204-5379, or online: www.twu.edu/student-life/.

Policies regarding the possession, use, and sale of illegal drugs and the enforcement of federal and state drug laws are outlined in the *Student Handbook*, which may be obtained by contacting the Vice President for Student Life, P.O. Box 425379, Denton, TX 76204-5379, or online: www.twu.edu/student-life/.

Policies regarding sexual assault, programs to prevent sex offenses, and procedures to follow when a sex offense occurs are outlined in the *Student Handbook*, which may be obtained by contacting the Vice President for Student Life, P.O. Box 425379, Denton, TX 76204-5379, or online: www.twu.edu/student-life/.

Eighteen Doctoral Characteristics

Statistics required to be posted by the Texas Higher Education coordinating Board, *18 Characteristics of Texas Public Doctoral Programs*, are published annually on the TWU website. They can be accessed at www.twu.edu/gradschool/doctoral-characteristics.asp.

Gainful Employment Reporting

As required by the U.S. Department of Education, information on completion of graduate certificate programs, median debt of students who completed the program, and other information is found on the TWU website at each individual certificate program site.

Graduate School

Jennifer L. Martin, Ph.D.
Dean of the Graduate School

Ruth A. Johnson, Ph.D.
Associate Dean of the Graduate School

Location: ACT 2

Phone: 940-898-3415

Fax: 940-898-3412

E-mail: gradschool@twu.edu

Website: www.twu.edu/gradschool/

Graduate instruction has been offered by the Texas Woman's University since 1930, when the increased demand for advanced studies resulted in development of a graduate program and establishment of the Graduate School. Since 1952 the Graduate School has operated as a unit under its own Dean and Graduate Council. Under provisions of Title IX of the Education Amendments in 1972, qualified men became eligible for admission to all programs offered at the graduate level on the same basis as qualified women.

The purposes of the Graduate School are to provide instruction and facilities for advanced study and research in the schools and colleges, and to offer the graduate degrees listed on the following page.

College or School	Graduate Degrees Offered
College of Arts and Sciences	Doctor of Philosophy Specialist in School Psychology Master of Arts Master of Business Administration Master of Fine Arts Master of Health Systems Management Master of Science
College of Professional Education	Doctor of Education Doctor of Philosophy Master of Arts Master of Arts in Teaching Master of Education Master of Library Science Master of Science
<i>INSTITUTE OF HEALTH SCIENCES</i>	
College of Health Sciences	Doctor of Education Doctor of Philosophy Doctor of Physical Therapy Master of Arts Master of Healthcare Administration Master of Occupational Therapy Master of Science
College of Nursing	Doctor of Philosophy Doctor of Nursing Practice Master of Science

Administration of the Graduate School

The Graduate School of the Texas Woman's University is administered by the Dean of the Graduate School in accordance with policies established by the Graduate Council, as authorized by the Board of Regents.

Admission to the Graduate School

Approval for admission to the Graduate School is required of all graduate students.

Graduate School admission does not imply admission to candidacy for an advanced degree. Candidacy will be granted only after a period of successful graduate work and after compliance with the conditions and course of study established by the University and its departments, schools, and colleges.

The total enrollment of graduate students is limited. All applications to the Graduate School are subject to whatever provisions may limit the enrollment of graduate students. Admission is granted for not more than one academic year. Students who do not attend the University during the period of their admission must reapply.

Graduate students, whether living on or off campus, are subject to the general rules and regulations of the University and are expected to maintain the high standard of social and academic life of the University as well as the professional standards of their chosen field of study. Thus, graduate students are subject to all rules and regulations set forth in the *Student Handbook*, the *Graduate Catalog*, and the policy statements of the Graduate School and the academic components. All graduate students of Texas Woman's University are expected to know and adhere to high standards of personal conduct and of academic integrity and scholarship. Any falsification, misrepresentation, or misapplication of information or research; any violation of professional or ethical standards; or any violation of the rules and regulations of the University may result in dismissal.

General Requirements for Admission to the Graduate School

The Graduate School establishes the minimum requirements for admission to all graduate degree and certification programs at Texas Woman's University. Applicants should consult with academic components regarding specific program criteria for admission. All applicants are expected to meet the following criteria:

1. Hold an earned bachelor's degree or equivalent from a U.S. college or university accredited by a regional (general) accrediting agency, or an equivalent degree from a foreign college or university. The bachelor's degree must be substantially equivalent to a bachelor's degree granted by TWU.
2. Have a minimum 3.0 GPA for the last 60 hours of undergraduate study and a minimum 3.0 GPA for all prior graduate work. Academic components may choose to consider files of applicants with lower GPAs, on a provisional basis.

3. Satisfy any additional requirements of an individual academic component for admission to a specific graduate program offered by that component. Consult the appropriate catalog section for component requirements. A summary of component requirements is also available at www.twu.edu/gradschool/admission-requirements.asp.

Examples include the following:

- Preferred scores recommended for standardized exams that are required by academic components.
 - Review of completed undergraduate and graduate coursework.
 - Reference letters, essays, interviews, and evidence of scholarly activity such as publication in refereed journals, professional presentations, grant acquisition, portfolios, and professional leadership.
4. Applicants who have earned an undergraduate degree from a foreign college or university must submit one of the following to show English proficiency.
 - Test of English as a Foreign Language (TOEFL) score of at least 550 (paper-based), 213 (computer-based), or 79 (iBT)
 - Michigan English Language Assessment Battery (MELAB) score of 80 or higher
 - International English Language Testing System (IELTS) score of 6.5 or higher
 - GRE verbal score of 500 (153, Revised GRE) or higher.

See “International Students” in this chapter for further information about English proficiency requirements.

Application for Admission

For admission into degree and certificate programs of the TWU Graduate School, all applicants must submit the following documents:

1. An application form and processing fee.
2. Official transcripts for all undergraduate and graduate study. An official transcript from each college or university attended is required.
3. Official scores for any standardized exams that are required by the academic component offering the program of interest. If a standardized exam is not required by the component, the applicant has the option of submitting scores voluntarily.
4. An official score on an English proficiency examination accepted by TWU, if the applicant earned an undergraduate degree from a foreign college or university or if the applicant is a permanent resident. An English proficiency examination is not required of international applicants:
 - from countries where English is the primary language of instruction and of the indigenous population; or

- who have earned a bachelor's or graduate degree from a regionally accredited U. S. college or university. In this case, students who are admitted may be required to take English language instruction if the component determines that supplemental instruction is needed.

See "International Students" in this chapter for further information about English proficiency requirements.

Applicants should submit the above information to Student Records Processing (P. O. Box 425649, Denton, TX 76204) no fewer than ninety days before the session to which admission is sought. Selected programs may have earlier deadlines. Applicants should submit to the individual academic component any additional documents required for admission to a specific graduate program offered by that component.

An applicant's academic record must reflect the ability to pursue advanced study and research. The applicant shall present an official transcript which, for unconditional admission, shows sufficient and satisfactory undergraduate preparation in the major field. Specific prerequisites vary among components of the University and are indicated in the appropriate sections of this catalog. Ordinarily, an undergraduate major (or credit for a minimum of twenty-four semester hours, twelve of which are advanced) in the same field is prerequisite to a graduate major; prerequisites for a graduate minor are usually based on the requirements of an undergraduate minor (or credit for eighteen semester hours, six of which are advanced) in the same field. However, a college, school, or department may require a candidate to take additional preparatory courses on either the graduate or undergraduate level which will not be counted as degree credit. Such additional preparation may require hours beyond the minimum needed for the degree.

Departmental graduate admission committees make recommendations to the Dean of the Graduate School regarding the admission status of applicants. Upon approval of the application for admission, the applicant is sent a statement from the Dean of the Graduate School specifying either unconditional or provisional admission. All conditions or prerequisites that must be met in addition to the graduate program requirements are stated in detail. Upon notification of admission, the applicant should confer with the appropriate advisor in the proposed major department in order to become acquainted with specific departmental requirements. Graduate students who do not attend the University for a period of two years at any time after their initial enrollment must reapply for admission.

Residency

Rules and regulations for determining residence status in the State of Texas are specified under Title 3 of the Texas Education Code. Persons classified as nonresident students upon first enrollment in an institution of higher education are generally presumed to be nonresidents for the period during which they continue as students.

To petition a change in residency classification, the student must complete the Core Residency Questions and submit them to the Office of the Registrar with appropriate documentation prior to the beginning of the semester. The Core Questions are available online: www.twu.edu/registrar/texas-residency.asp.

International Students

Applicants who are not U.S. citizens or permanent resident aliens will be issued the appropriate immigration form required to obtain a visa after all official papers pertaining to admission and registration have been received and evaluated as satisfactory in the Office of International Education and after an acceptance letter has been issued by the Graduate School.

Before the SEVIS I-20 or DS-2019 will be issued, applicants holding nonimmigrant student visas must submit financial statements certifying responsibility for all expenses while attending the University. They must comply with the Bureau of Citizenship and Immigration Service (BCIS) regulations by maintaining full-time student status at all times during the school year (nine or more graduate hours each semester).

In addition to application forms and official transcripts, all international students, including transfers and permanent resident aliens, must present an acceptable Test of English as a Foreign Language score of 79 (iBT), 550 (paper-based), 213 (computer-based), or above; a Michigan English Language Assessment Battery (MELAB) score of 80 or higher; an International English Language Testing System (IELTS) score of 6.5 or higher; a verbal score of 500 (153, Revised GRE) or above on the Graduate Record Examination (GRE); or a GMAT equivalent to 50th percentile. These scores must be presented by the official deadlines published. (An acceptable English speaking proficiency test is required of international students applying for graduate teaching assistantships. Certain academic programs may also require an English speaking proficiency test of all applicants.) The following exceptions apply to the English proficiency requirement:

1. Students from countries where English is the primary language of instruction and is the language spoken at home and by the indigenous population.
2. Students who have earned a bachelor's or graduate degree from an accredited United States college or university.

For more information concerning the Test of English as a Foreign Language, visit the website at www.ets.org or write to: TOEFL, Box 899, Princeton, NJ 08540, U.S.A.

Application deadlines for all international students on nonimmigrant visas are March 1 for the fall semester; July 1 for the spring semester; and February 1 for any summer session.

To determine status for tuition purposes, immigrants and permanent residents must submit proof of status by completing the Residency Questionnaire. (See Residency.)

All international students are required to have medical and hospital insurance. (See Student Health Services.)

Types of Admission

A student may be admitted to the Graduate School for one of several types of study as indicated below. The acceptance letter sent by the Dean of the Graduate School will specify the type of admission granted. International students may be admitted only as degree-seeking.

1. *Degree study*: This status identifies students seeking either a master's or doctoral degree. Students should apply for admission at the appropriate level. Admission to master's study is valid only for the master's degree; a separate application for doctoral study is required. Students are admitted to degree study in a particular academic discipline, and any change of field of study requires a new application for admission.
2. *Certification study*: This status identifies students holding the bachelor's degree who seek certification rather than a graduate degree. A maximum of 12 graduate credit hours earned for certification will subsequently apply toward a graduate degree only if the Dean of the Graduate School, upon recommendation of the student's advisory committee, determines it is appropriate to the degree program.
3. *Postdoctoral study*: This status identifies students holding doctoral degrees who do not wish to pursue another graduate degree but who wish for personal or professional purposes to take additional course work.

NOTE: Postbaccalaureate status qualifies students to take undergraduate-level courses only, and under no circumstances will postbaccalaureate work be counted as graduate work.

Nature of Admission

Each application which meets the minimum requirements of the Graduate School will be evaluated by members of the appropriate department and by the Dean of the Graduate School; it will be accepted or rejected on the basis of the following criteria.

1. *Unconditional Admission*: No prerequisites are necessary, and no special qualifications must be met during or prior to graduate study.
2. *Provisional Admission*: Graduate degree study is permitted with the imposition of certain conditions which must be met for the student's continuation in the degree program. These conditions may require the completion of prerequisites, satisfactory performance in initial course work, satisfactory completion of a degree in progress, or the completion of other conditions which indicate the student should continue graduate study. A student admitted with less than a 'B' average is given Provisional Admission, conditioned upon maintenance of a 'B' average during the first twelve hours of graduate study or upon other requirements specified. Once the conditions for full admission have been met,

the student should petition the Graduate School through the department for advancement to Unconditional Admission. Failure to meet conditions of admission results in the student's removal from a degree program.

3. *Denial of Admission:* Admission is denied if the applicant fails to meet the minimum requirements established by the Graduate Council, the program has reached the limits of its enrollment, or the applicant does not meet departmental requirements.

Election of Graduate Work by Seniors of This University

A student who at the beginning of the second semester of the senior year lacks not more than twelve semester hours for a bachelor's degree is permitted to register for courses which may be applied toward meeting the master's degree requirements provided that the total registration does not exceed sixteen semester hours and proper application has been made to the major department and the Graduate School before registering for such courses.

No work which is 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 specific courses to be applied toward a graduate program approved by their major department and by the Dean of the Graduate School.

Election of Graduate Work by Students Who Are Not Seeking Degrees

Students who do not plan to work toward a graduate degree but who wish to enroll in occasional courses for such purposes as personal enrichment, professional development, and meeting special interests may, with the permission of the department, register as "non-degree students." Admission to the Graduate School is not required; however, a completed application form, \$50 processing fee, and an official transcript showing the bachelor's degree or highest degree held must be filed with the Office of Student Records. International students must submit a \$75 processing fee and a satisfactory English proficiency scores (see "International Students").

A maximum of 12 graduate credit hours earned by a "non-degree student" may subsequently apply toward a graduate degree only if the Dean of the Graduate School, upon recommendation of the student's advisory committee, determines it is appropriate to the degree program.

All students who enroll in graduate courses, whether or not they are seeking degrees, are required to maintain a 3.0 GPA on all graduate-level courses taken at TWU. Students who fail to maintain this average will not be permitted to continue registering for graduate courses.

Grades and Gradepoints

The number of gradepoints given for each grade earned by a student is determined as follows:

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

Grades are interpreted as: A, Excellent; B, Good; C, Average; D, Inferior; F, Failure; CR, Credit; PR, In progress (normally used for thesis, professional paper, or dissertation); I, Incomplete; W, Withdrew from the course without penalty; WF, Withdrew from the course while failing; X, no credit due to tuition deficiency; and NG, no grade awarded. The letters “REP” following the grade indicate repeated course work. The last grade is counted for repeated coursework.

Master’s students should consult the section of the catalog related to their specific degree to determine whether grades of ‘C’ may be included in a degree plan. In no case may a grade below ‘C’ be included on a master’s degree plan. Doctoral students may include no grade below ‘B’ on a degree plan.

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

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

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

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

the department or program must certify that the student can successfully complete such work by the assigned completion date.

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.

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. The maximum time allowed to finish the course work is one calendar year.

Incomplete work cannot be finished by retaking 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 last 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.

After the first six weeks of an academic term, a student who wishes to drop and to receive a grade other than 'WF' must secure a drop form from the student's advisor, secure the signatures required on the form, and file the form in the Office of the Registrar. The instructor will recommend either a grade of 'W' or a grade of 'WF' on the drop form. Failure to process the drop form 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.

Student Responsibility

The act of registering denotes an implicit declaration of the student's acceptance of University regulations as outlined in the most recent issues of the catalog and student handbook. Failure to abide by university regulations will subject the student to appropriate disciplinary action as outlined in the *Student Handbook*.

The University also expects the student to obey the law, to show respect for properly constituted authority, to perform contractual obligations, to maintain absolute integrity and a high standard of individual honor in scholastic work, and to maintain conduct appropriate for a community of scholars.

Health Requirements: Students in Health-related Majors

Students who are admitted to health-related programs which involve contact with patients are required to be immunized against measles, mumps, rubella, tetanus/diphtheria, hepatitis B, and varicella. Proof of these immunizations will be required at the time a student begins clinical coursework. Screening for tuberculosis is also required of these students.

Some clinical facilities with which the University affiliates require that students be tested for drugs and have a criminal background check done. When this

is required by an agency, all students assigned to that agency will have this screening performed at their own expense. Failure to meet the screening standards may interfere with the student's progression in 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.

Withdrawal from the University

A 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 campuses. The effective date of withdrawal is the day upon which the student submits the completed Request for Withdrawal Form, and it is approved in the appropriate office. Withdrawals are not permitted after the Thursday of the fifth week preceding the first day of final examinations for a long semester or during the week preceding the first day of final examinations for a summer term. See the Academic Calendar for exact date.

A student who withdraws on or up to the 12th class day or the 4th day of summer session will have no record of coursework on the transcript. A student who withdraws after the 12th class day or the 4th day of summer session and before the last day to drop without penalty will receive a grade of 'W.' After the last date to withdraw without penalty, the grade of 'WF' is assigned, unless a 'W' is recommended by the instructor.

A student whose medical or psychological health condition precludes class attendance may be withdrawn from Texas Woman's University effective on the date and under the conditions specified at the time of the withdrawal. A student who requests medical withdrawal must submit adequate written documentation from the treating physician along with an official TWU Withdrawal Form to the Vice President for Student Life. If a medical drop is initiated after the last day to drop without academic penalty, the faculty member will assign the grade.

Review of Complaints and Appeals

Texas Woman's University is committed to the fair treatment of all students who have academic/administrative complaints and appeals. The University has traditionally guaranteed students every opportunity for a fair, prompt, and thorough review of complaints and appeals.

The specific review procedures for each type of complaint or appeal are outlined on the Academic Affairs website.

A *complaint* is a dispute concerning some aspect of the student's academic status arising from an administrative or faculty decision that the student regards as incorrect or unjust.

An *appeal* is a request to a person or authority for a decision to resolve a complaint.

Complaints or appeals at each level must be made in writing no later than ten class days after the date of the decision at the previous level unless otherwise stipulated in state or federal law. The ten days for appeals at each level do not include weekends, holidays, or days between academic sessions. The faculty member or administrator receiving the complaint or appeal will respond within ten class days not including weekends, holidays, or days between academic sessions. Review and decision may require a longer period of time. For appeals reaching the Graduate School, the Dean of the Graduate School may appoint an *ad hoc* committee to hear the appeal of the student and submit a report to her/him. If an *ad hoc* committee is formed, the student receives timely written notice of the appeal hearing and has the opportunity to appear before the committee and to make a statement.

It is the intention of the University to provide students who have complaints and appeals with adequate internal review and to begin resolving them promptly at the level at which the complaint or appeal originated. Students should follow university procedures and deadlines to advance a complaint or appeal as needed. The University expects students to initiate complaint or appeal procedures with the appropriate individual or office and follow university procedures to completion before seeking external consideration. Procedures designate the office which makes the final decision on each type of academic complaint or appeal.

Auditing

Permission to audit a course, undergraduate or graduate, must be obtained from both the instructor of the course and the chair of the department which offers the course, the dean of the college, and the Registrar. 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. The Audit forms are available in the Office of the Registrar.

Any person 65 years of age or older may audit classes without a tuition charge providing there is space available. Fees are still applicable. Information may be secured in the Office of the Registrar.

Enrollment Certification

Enrollment verification and loan deferments are completed in the Registrar's Office and are based upon a student's having registered and paid tuition and fees according to the following criteria:

Graduate Level

Fall & Spring:

Full-time:	9 hours
Half-time:	6-8 hours

Summer 1 (3-week term):

Full-time:	3 hours
Half-time:	2 hours

Summer 2/3 (5-week term):

Full-time:	6 hours
Half-time:	3-5 hours

Summer (10-week term):

Full-time:	9 hours
Half-time:	6-8 hours

Student teaching, thesis, and dissertation hours will be certified as full-time. Internships will be certified as full-time if enrolled in 6 or more hours, and half-time if enrolled in 3-5 hours.

Graduate Study by Faculty and Staff of Texas Woman's University

Texas Woman's University encourages the continual growth and development of faculty and staff. A full-time employee of the University may enroll for a maximum of three semester hours per semester or summer term during the workday. However, no member of the faculty may be admitted to the Graduate School of the Texas Woman's University for the purpose of pursuing a degree in the department or discipline in which he or she teaches.

Information for Graduating Students

Students must be enrolled in the term in which they are graduating. A student who is graduating must apply for graduation online no later than:

- the 12th class day of Fall for December graduation
- the 12th class day of Spring for May graduation
- the 12th class day of Summer for August graduation. (Note: August master's graduates may choose to participate in May or December commencement. If participating in the May commencement, students must apply by the May graduation deadline. August doctoral graduates may participate in December commencement.)

A student cannot apply for graduation when on probation. Late applications for graduation are not accepted.

Students must be enrolled in the term in which they are graduating. Students who have completed all requirements for graduation may have the enrollment requirement waived provided all materials have been submitted and approved by the Graduate School on or before the Friday prior to the start date of the new term.

The "Calendar of Deadlines" for graduating students is issued by the Graduate School each semester. It is available on the Graduate School website (www.twu.edu/gradschool/).

General Requirements and Regulations for Master's Degrees

Texas Woman's University confers three types of master's degrees: the Master of Arts, the Master of Science, and various professional master's degrees, such as the Master of Education and the Master of Occupational Therapy. TWU also offers the Specialist in School Psychology degree, which is considered as a master's level degree for the purposes of Graduate School requirements. The minimum requirements for these degrees are outlined below.

Residence

While no specific residence requirement exists for the master's degree, the student should plan to pursue as much full-time resident study as is possible in the degree program.

Time Limits

No absolute time period exists within which a master's degree must be completed, but credit hours older than six years cannot apply toward any master's degree. Under extraordinary circumstances, credit hours older than six years may be reinstated with the permission of the Dean of the Graduate School, upon recommendation of a student's advisory committee, chair of the department, and dean of the college.

Limit on Course Load

The nature of graduate study is such that the graduate student load should be lower than a normal undergraduate load. A graduate student is considered full-time if enrolled in nine or more semester hours. Enrollment in fewer than nine hours is considered part-time enrollment. Graduate students are encouraged to consider twelve semester hours a maximum load and, if employed, to enroll for proportionately fewer hours.

Grade Requirements

Grades in courses offered for the master's degree must average 'B' or above in both the major and minor fields. (Some departments of the University accept no grade lower than 'B' for degree work; please see the appropriate departmental sections in this catalog.) In no case may a course with a grade below 'C' apply to the degree.

Graduate students are expected to maintain a 'B' average on all graduate work. Consistent failure to do so results in dismissal from the Graduate School. When a student's cumulative grade average on graduate-level work falls below 'B' or when a student receives a grade of 'D', 'F', or 'WF' during any one semester or full summer

session of twelve weeks, the student is automatically on academic probation and notified of this status. Earning a grade of 'D', 'F', or 'WF' or failure to restore the cumulative average to 'B' or above during the next enrollment results in dismissal from the Graduate School. It is not possible to improve the grade record at Texas Woman's University by attendance at another university. Students who have been suspended may reapply to the TWU Graduate School when 6 years have elapsed after the suspension.

Major and Minor Subject

At least one-half of the credits offered for the degree shall be in a single field of concentration. It is incumbent upon the student to elect courses with at least three instructors, two of whom represent the field of the graduate major. In addition, the student may select a minor closely allied to the major, to the thesis subject, or to the interests of the student. When a minor is listed as suitable by the major department, no special permission is necessary, but at least one-half of the minor must be completed in residence at TWU and in a field offering a graduate degree program.

Administration of Program

Each student must meet the special requirements of the major department. Each student must comply with all policies and legislation concerning curricula or work leading to graduate degrees as formulated by the Graduate Council and administered by the Dean of the Graduate School as authorized by the Board of Regents and the Chancellor and President of the University.

When a master's student is accepted into a program, the dean, director, or department chair will appoint an academic advisor who is responsible for the student's program until an advisory committee is appointed. The name of the student's advisor will be included in the official letter of acceptance sent to the student by the Graduate School. The student will develop a degree plan with the advisor upon completion of twelve credit hours, subject to final approval by the advisory committee, department chair, academic dean (as required), and Dean of the Graduate School.

Degree Plan

The graduate student and the advisor share the responsibility to file with the Graduate School, on the form provided for that purpose, the complete plan of graduate study leading to the degree. (When the student presents a minor, a faculty member from the minor department must approve the proposed program through signature on the degree plan.) The student should file the approved and signed degree plan upon completion of twelve semester hours.

Thesis or Professional Paper Committee

It is the graduate student's responsibility to recommend the membership of the Research Committee. The Research Committee consists of not fewer than two voting members of the graduate faculty, at least one of whom represents the major component. If the student has a minor, one member of the committee should normally be a faculty member from the minor area. This committee shall have authority with respect to the student's thesis or professional paper; and the committee chair administers this authority. This committee also serves as the candidate's committee to examine the student over the thesis or professional paper. A person selected to serve on a master's committee must hold a master's degree or higher. The Chair of a thesis committee must possess full Graduate Faculty status. The second member must have at least Associate Graduate Faculty status. Exceptions to committee membership may be made at the discretion of the Dean of the Graduate School.

Admission to Candidacy

When the degree plan has been approved in the Graduate School, all admission or other conditions have been met, and at least twelve hours of course work have been successfully completed, the student is admitted to candidacy for the master's degree.

Program Requirements

All master's degree programs require either the writing of a thesis or professional paper or the fulfillment of a special project or other requirements.

Each master's program which includes the writing of a thesis requires the completion of a minimum of twenty-four semester hours of approved courses plus a maximum of six hours for the thesis.

Each master's program which includes the writing of a professional paper or the fulfillment of a special project requires a minimum of thirty-six semester hours, of which a maximum of six hours may be included for professional paper or special project.

All courses in the program must be graduate-level (numbered 5000 or higher), and in no case may undergraduate credit be accepted toward a master's degree.

Graduate students are not permitted to apply toward the master's degree more than twelve semester hours earned in workshops, in seminars, or in any combination of these. Such courses must form part of the logical, related sequence of work leading to the degree.

Thesis and Professional Paper

A thesis, required in many master's degree programs, is the culmination of the student's independent scholarship or creative achievement in some branch of learning or the arts. The professional paper or project may be prepared in conjunction with a research class or seminar or with certain off-campus activities approved by the committee and terminating in a written presentation which demonstrates the

student's ability to prepare a bibliography, gather data, use original source material, draw conclusions, and present the material in a form which shows adequate command of the English language.

Before the student begins research for a thesis, the prospectus is required to be approved by the Research Committee and the Dean of the Graduate School. However, the prospectus for a professional paper, if prepared, need not be filed in the Graduate School.

The appropriate number of copies of the approved thesis must be delivered to the Graduate School no later than the filing date listed in the Graduate School "Calendar of Deadlines." Bound at the expense of the student, one copy is placed in the University Library and the second in the files of the college of the major. These copies become the property of the University. Under certain conditions, usually related to special research fellowships or programs or to continuing university, college, foundation, or industrial research programs, it may be necessary for the student to pay for and submit more than two copies.

All theses are microfilmed by University Microfilms. The student pays for this microfilming at the time of filing the thesis in the Graduate School. Copyrighting, which remains optional, may be secured through University Microfilms for an additional fee. Details concerning the abstracts, microfilming, copyrighting, and their fees are available in the Graduate School.

To secure credit for work done on the thesis or professional paper, the student must register for the appropriate course. When "Thesis" appears on the schedule, it will be counted as three semester hours in determining both load and tuition and fees. Although no more than six hours' credit can be earned for the writing of the thesis, the candidate must re-enroll in the thesis course until the writing is completed.

Graduate students may use the computer and research consultant services of the Department of Mathematics and Computer Science in the preparation of professional papers, theses, and dissertations. To use these services, students must enroll in CSCI 5921 (Research Consultation Laboratory). The course may be repeated for additional credit as needed.

The grade of 'PR' is assigned to indicate a professional paper or thesis is in progress. A student writing a thesis for six hours' credit is given 'CR' (Credit) for the first enrollment and 'PR' (In Progress) for all subsequent enrollments until the last enrollment. At that time 'CR' is given again. A student writing a professional paper for three hours' credit is assigned the grade of 'PR' for all enrollments except the last one and is assigned the grade of 'CR' for the final enrollment.

Only an officially registered student may hold conferences with faculty members concerning the preparation of a thesis or professional paper. This rule applies both when the student is in actual residence and when the student is not in residence but receiving aid or criticism through conferences or correspondence. This rule does not apply to those preliminary conferences held before the thesis subject has been selected. Registration for thesis or professional paper in one term is good for that term only and does not extend to the next term.

The Graduate School publication *Guide to the Preparation and Processing of Dissertations, Theses, and Professional Papers* (available at www.twu.edu/grad-school/degree-completion.asp) and *Formatting Navigator* should be consulted for additional information concerning the thesis or professional paper. (See Policies and Guidelines for Graduate Committees on Dissertations, Theses, and Professional Papers on page 86.)

Final Examination

A candidate for a master's degree must take a final examination. This examination may be oral, written, or both, at the option of the examining committee, and covers the candidate's thesis, professional paper, or project. It may also cover major and minor fields. The examining committee consists of at least two members, approved by the Dean of the Graduate School.

Formal notice of satisfactory completion of the final examination must be filed in the Graduate School by the date specified for each session in the Graduate School "Calendar of Deadlines."

Credit by Transfer

There is no automatic transfer of graduate credit. However, a student's advisor or committee may recommend and the Dean of the Graduate School may approve specific courses for transfer credit as a part of the student's master's degree plan. Programs will use the following scale in determining the maximum possible number of credits that may be transferred:

- up to 6 semester hours in a program of 30-38 credit hours.
- up to 9 semester hours in a program of 39-44 credit hours.
- up to 12 semester hours in a program of 45 or more credit hours.

Only graduate courses in which the grade of 'B' or better has been earned from a regionally accredited school may be considered for transfer credit. Transferred work is not accepted until the student has demonstrated ability to do satisfactory work at the Texas Woman's University. No credit toward a graduate degree may be obtained by correspondence, nor may credit toward a graduate degree be obtained by extension work from another institution. All transfer credits must have been earned in residence at a university of recognized excellence and approved at TWU by the appropriate dean or chair and by the Dean of the Graduate School. The rule governing the time limit for master's degree credit applies to transfer credit.

Transfer of Credit Hours from a Completed TWU Master's Degree to a New TWU Master's Degree

There is no automatic transfer of graduate credit from a previous master's degree earned at Texas Woman's University to a new master's degree in progress

at Texas Woman's University. The completion of a number of hours is not in itself sufficient; the nature and quality of work are the major considerations. The graduate student's Advisory Committee for the new degree has the prerogative, with approval of the department, to recommend to the Dean of the Graduate School the acceptance of any transferable credits from a previous master's degree. Any hours selected for transfer are still governed by the time limit for master's work; that is, at the time when the new master's degree is completed, the transferred credits must not be more than six years old.

Programs will use the following guidelines in determining the maximum possible number of credits from a previous master's degree earned at TWU that may be applied to a new master's degree at TWU:

- up to 12 semester hours in a new program of 30-44 credit hours.
- up to 18 semester hours in a new program of 45-59 credit hours.
- up to 24 semester hours in a new program of 60 or more credit hours.

Only graduate courses in which the grade of 'B' or better has been earned may be considered for such transfer credit.

General Requirements and Regulations for Doctoral Degrees

Admission to the Graduate School of prospective doctoral candidates is the joint responsibility of the Dean of the Graduate School and the head of the program to which the student applies. Students must show sufficient and satisfactory undergraduate preparation in the field or fields in which the doctoral work is to be done. Students must also demonstrate superior ability to do advanced work at the doctoral level.

Candidates for doctoral degrees are subject to all applicable academic and other University regulations which govern candidates for the master's degrees unless otherwise indicated.

Advisory Committee and Degree Program

When a doctoral student is accepted into a program, the program's dean, director, or department chair appoints an academic advisor who is responsible for the student's program until an advisory committee is appointed. The name of the student's advisor will be included in the official letter of acceptance sent to the student by the Graduate School. The student will develop a degree plan with the advisor. The degree plan will be reviewed by a department committee which shall consist of not fewer than three members of the graduate faculty, with two being from the major department. This committee shall have authority to review the student's course work and to evaluate it through written and/or oral examinations with respect to the student's program. The student's advisor chairs the advisory committee and administers this authority. When a student presents a minor, a faculty member from the minor department must approve the proposed program through signature on the degree plan. It is the student's responsibility to work with his/her advisor to develop the degree plan, which must be forwarded through the department chair to the Dean of the Graduate School before completion of eighteen semester hours at TWU.

Course Requirements

Specific requirements are determined by the student's advisory committee, department chair, and academic dean. In general, however, work leading to the doctorate requires the completion of at least ninety graduate-level semester hours beyond the baccalaureate degree. In some cases a student may need to complete more than ninety semester hours in order to meet individual requirements determined by the advisory committee. The completion of a number of hours, however, is not in itself sufficient; the nature and quality of work are the major considerations.

Credit by Transfer

There is no automatic transfer of graduate credit, but the student's advisory committee has the prerogative to recommend to the Dean of the Graduate School the acceptance of transferable credits.

Only graduate coursework completed at regionally accredited institutions may be considered for transfer. A student may apply for consideration of transfer of credits after satisfactorily completing a minimum of nine hours of graduate credit at Texas Woman's University and upon filing the degree program. The rule governing the time limit for doctoral work also applies to transferable credits.

Only graduate courses in which a grade of 'B' or better has been earned are acceptable for transfer. No credit toward a graduate degree may be obtained by correspondence and no credit toward a graduate degree may be obtained by extension work from another institution.

At least fifty percent of the work counted toward a doctoral degree program must be composed of courses having residence status at Texas Woman's University.

Major and Minor

Specific requirements for the major and minor subjects are determined by the dean of the college or chair of the committee in consultation with the department in which the candidate seeks the minor. Detailed statements regarding majors and minors are in the departmental, school, and college sections of this catalog. At least half of the courses for the minor must be completed in residence at TWU.

Grade Requirements

No course with a grade below 'B' is accepted toward a doctoral degree at the University.

The doctoral student is expected to maintain a cumulative grade point average of at least 'B'. When a student's cumulative grade point average on graduate-level work falls below 'B' during any one semester or full summer session of twelve weeks, or when a student receives a grade of 'D', 'F', or 'WF', the student is placed on academic probation and notified of this status. Earning a grade of 'D', 'F', 'WF', or failure to restore the cumulative average to 'B' (3.0) or above during the next enrollment results in dismissal from the Graduate School. The grade record at the Texas Woman's University cannot be improved by attendance at another university. Students who have been suspended may reapply to the TWU Graduate School when 10 years have elapsed after the suspension.

If a doctoral student earns grades below 'B' in program courses, continuation in the degree program is reviewed by the student's advisory committee. A student is not allowed to continue in the doctoral program if there are two failing grades ('F' or 'WF') in the doctoral program.

Course Load

Normally nine or more graduate semester hours are considered a full course load.

Tuition for Doctoral Hours Exceeding Legislated Limit

The Texas Legislature has amended the state's Education Code to limit funding of doctoral credits for any student at any institution to 99 hours. TWU doctoral students are charged at the out-of-state tuition rate for any doctoral work in excess of 99 semester hours. By state exception, TWU doctoral students in Counseling Psychology, School Psychology, Family Therapy, and Nursing Science are charged at the out-of-state tuition rate for any doctoral work in excess of 130 semester hours. Doctoral students should, therefore, work closely with their advisors to plan a course of study that will prevent their inadvertently exceeding the limitation. All semester hours listed as 'I', 'NG', 'PR', 'W', 'WF', and 'X' on the transcript are included in the total doctoral hours.

Time Limits

All requirements toward a doctoral degree, aside from a completed master's degree, must be completed within a period of ten consecutive calendar years from the date doctoral credit is first earned.

Admission to Candidacy for Ph.D. and Ed.D. Students

When a student applies for admission to candidacy, the Dean of the Graduate School appoints a research committee from a list of faculty members suggested by the student in consultation with the chair of the department and submitted by the dean of the college (if required). The committee is composed of a minimum of three members. The chair must possess Full Graduate Faculty status. The second and third members must have at least Associate Graduate Faculty status. This committee evaluates the student's professional promise, plans for continued study, and progress with respect to the dissertation and later approves the dissertation and sets the final examination of the candidate for the doctoral degree. Admission to candidacy requires the following:

1. Unconditional admission to the Graduate School;
2. Demonstration of professional promise;
3. Good academic standing;
4. Completion of research tools;
5. Satisfaction of the residence requirement, if required;
6. Successful completion of qualifying examination.

The qualifying examination consists of written and/or oral comprehensive examinations conducted by the candidate's committee and administered at least one academic year before the degree is expected to be conferred, ordinarily not earlier than during the last semester of the second full year of graduate study. In

no case may a student be excused from the qualifying examination. (NOTE: The student must have met research tool and any residence requirements before taking the qualifying examination.)

Research Tools for Ph.D. and Ed.D. Students

Doctoral studies require skills and techniques (tools) that vary with the specific needs of the discipline. The degree-granting components determine the suitability of specific research tools for their programs. In general, such tools comprise coursework equivalent to a minimum of six credit hours for each tool. Equivalent competencies may, if acceptable to the component, be demonstrated by examination. The degree-granting component establishes whether the credits are included in the 90 hours required for the program or whether they are required in addition to the minimum hours needed for the degree.

Dissertation

Each Ph.D. and Ed.D. candidate must write a dissertation based upon research which makes an original contribution to the literature and research of the student's discipline. The Dean of the Graduate School appoints the dissertation director upon recommendation of the chair and/or dean of the college of the doctoral major. In final form, the dissertation must be approved by the student's committee, specified administrators of the appropriate college or school, and the Dean of the Graduate School.

Before the student begins the formal research for the dissertation, the prospectus must be approved by the Research Committee; the department chair, director, or associate dean; dean of the college (if required); and the Dean of the Graduate School.

To secure credit for work done on the dissertation, the student must register for this work. When "Dissertation" appears on the schedule, it is counted as three or six semester hours in determining both load and tuition and fees.

Graduate students may use the computer and research consultant services of the Department of Mathematics and Computer Science in the preparation of their professional papers, theses, and dissertations. When these services are to be used, students must enroll in CSCI 5921 (Research Consultation Laboratory). The course may be repeated for additional credit as needed.

The grade of 'PR' will be assigned to indicate a dissertation is in progress. A student writing a dissertation for six hours' credit will be given 'CR' (Credit) for the first enrollment and 'PR' (In Progress) for all subsequent enrollments until the last, for which 'CR' will be given again. A student writing a dissertation for twelve hours' credit will be given 'CR' for the first two enrollments and for the last two enrollments and 'PR' for enrollments in between.

Only an officially registered student may hold conferences with faculty concerning the preparation of a dissertation. This rule applies both to the student in actual residence and to the student not in residence who is receiving aid or criticism

through conferences or correspondence. This rule does not apply to preliminary conferences held before the dissertation subject has been selected. Registration for dissertation in one term is good for that term only and does not extend to the next term.

The appropriate number of copies of the approved dissertation must be delivered to the Graduate School no later than the filing date listed in the Graduate School “Calendar of Deadlines.” Bound at the expense of the student, one copy is placed in the University Library and the second in the files of the college of the major. These copies become the property of the University. Under certain conditions, usually related to special research fellowships or programs or to continuing university, college, foundation, or industrial research programs, it may be necessary for the student, by prior agreement with the dissertation director, to pay for and submit more than two copies.

All dissertations are microfilmed by University Microfilms and included in *Dissertation Abstracts International*. The student pays for this microfilming at the time of filing the dissertation and abstract in the Graduate School. Copyrighting, which remains optional, may be secured through University Microfilms for an additional fee. Details concerning the abstracts, microfilming, copyrighting, and their fees are available in the Graduate School. The student is urged to consult the Graduate School publication *Guide to the Preparation and Processing of Dissertations, Theses, and Professional Papers* (available at www.twu.edu/gradschool/degree-completion.asp) and *Formatting Navigator* for additional information. (See Policies and Guidelines for Graduate Committees on Dissertations, Theses, and Professional Papers on page 86.)

Final Examinations

When the research committee has approved the candidate’s dissertation and all other requirements for the degree have been met, the student stands for a final examination before the committee. The final examination is oral, written, or both, and includes a defense of the dissertation and the research on which it is based, as well as questions concerning both the major and minor fields.

Formal notice of satisfactory completion of the final examination must be filed in the Graduate School by the date specified for each session in the Graduate School “Calendar of Deadlines.”

Policies and Guidelines for Graduate Committees on Dissertations, Theses, and Professional Papers

These policies shall apply to the research committee of each candidate for a graduate degree requiring a dissertation, thesis, or professional paper.

Purpose

The purpose of the committee is threefold: (1) to guide the student during the major study, (2) to evaluate the student's total progress and achievement, and (3) to maintain high standards of scholarship.

Selection

A graduate student's responsibility includes recommending the membership of the committee. Before first registration for thesis, professional paper, or dissertation, the student should identify in writing to the head of the appropriate department, school, or college those persons whom the student wishes to have as chair and members of the committee. The head of the component recommends in writing the appointment of the committee and its chair to the Dean of the Graduate School. If those recommendations are different from the student's request, a written statement to that effect accompanies the recommendations to the Dean of the Graduate School.

Master's Degree

The Research Committee consists of at least two voting members of the graduate faculty, at least one of whom represents the major component. If the student has a minor, one member of the committee should be a faculty member from the minor area.

Doctoral Degree

The Research Committee consists of not fewer than three voting members of the graduate faculty, at least two of whom represent the major discipline. If the student has a minor, one member of the committee should be a faculty member from the minor area. This committee shall have authority with respect to the student's dissertation; and the committee chair administers this authority. This committee also serves as the candidate's committee to examine and give approval for the dissertation.

Qualifications for Committee Membership

Ordinarily, a person selected to serve on a committee should hold a regular, full-time academic appointment at TWU and should be a member of the graduate faculty. A person selected to serve on a master's committee must hold a master's degree or higher, and one selected to serve on a doctoral committee is expected to hold a doctor's degree. The chair of a Thesis or Dissertation committee must possess Full Graduate Faculty status. The second and/or third members must have at least Associate Graduate Faculty status. Exceptions may be made at the discretion of the Dean of the Graduate School.

Appointment

Official appointment of the committee is the responsibility of the Dean of the Graduate School.

Authority and Responsibilities

The committee is an arm of the Graduate School. When the committee has been appointed, the authority of the component with respect to the student's program including course work, evaluation, and major study is delegated to the committee; however, actions and decisions of the committee are subject to review and recommendation by the head of the component.

The committee chair is the committee spokesperson in dealing with the student. The student should have no uncertainty concerning the person with whom to deal in the day-to-day preparation of the major study, and it should seldom be necessary for the student to hold conferences concerning minor matters with the individual members between committee meetings.

- (1) The committee determines specific program requirements for the student consistent with University policy.
- (2) The committee requires an approved prospectus before the student begins data-gathering procedures. To indicate approval, each committee member signs the prospectus; the committee chair forwards the approved prospectus to the head of the next larger component for signature. The thesis or dissertation prospectus is then forwarded to the Dean of the Graduate School. To indicate approval of a professional paper prospectus, each committee member signs the prospectus, and the committee chair files it with the office of the component in which the student is majoring.
 - (a) The committee chair assures the Graduate School in writing that any study involving human subjects meets the criteria of the Texas Woman's University Institutional Review Board guidelines established in accordance with the Department of Health and Human Services regulations, and that it has been approved, if necessary, by the Institutional Review Board. These guidelines are available at www.twu.edu/research.

- (b) The committee chair assures the Graduate School in writing that written permission has been obtained in advance from every person who is photographed, filmed, video-taped, or recorded in any way for educational or research purposes. Consent forms are available in each academic component and in the Graduate School.
- (c) The committee chair assures the Graduate School that, when other institutions or organizations are involved in the major study, the student will obtain letters of cooperation from the appropriate officials on their letterhead before beginning the collection of data.
- (d) The committee chair informs the Graduate School of the receipt of the required letters of informed consent for human studies and letters of institutional cooperation. These documents are filed for the length of time stipulated in the regulations.
- (e) The committee chair informs the student of the necessity of assuring the rights to privacy and protection of confidentiality of data before data are collected, normally when the prospectus is approved.
- (f) The committee chair assures the Graduate School in writing that any study involving live animals meets the criteria of the Texas Woman's University Institutional Animal Care and Use Committee guidelines.
- (3) The committee accepts or rejects the completed major study in accordance with high standards of scholarship.
- (4) The committee members are responsible for thorough and prompt review of the student's work throughout the major study.

Changes in Committee Appointment

If necessary, changes in committee membership can be made. A request for a change may be initiated by the student, committee member, or head of the component. Requests for changes should be written and routed through the chair of the committee to the head(s) of the component(s) to the Dean of the Graduate School. Academic courtesy holds that, before an official change is made, the committee chair should inform all parties concerned.

Committees of the Federation

A Texas Woman's University student enrolled in a program of the Federation of North Texas Area Universities may request that a faculty member from another Federation university be asked to serve on the committee. The head of the component recommends such an appointment in writing to the Dean of the Graduate School.

The chair of the student's committee provides guidelines relative to the Federation program in the student's major component. When the degree is granted by Texas Woman's University, the chair and the majority of the voting members of any committee of the Federation must be from the student's major component at Texas Woman's University.

Meetings

A committee is convened by the chair no fewer than two times and often three or more times, depending upon the student's progress. Committee members are expected to respond promptly to the call for a meeting. All committee members are expected to attend committee meetings. Majority decisions of the committee prevail.

First Obligatory Meeting

At least ten days before this meeting, with the approval of the committee chair, the student gives each member a copy of the prospectus developed to the level of complexity deemed appropriate by the chair. The prospectus typically may include an introduction, a statement of purpose (problem, questions, hypotheses), a selected review of literature, and a description of the student's research methods and procedures. At this meeting, the committee assesses the student's prospectus and ability to carry out the research. The committee makes suggestions to the chair concerning the course work or study still needed by the student and establishes the time limitations for the currency of the research data. The committee decision takes one of the several forms listed below.

- (1) Unqualified approval: If the prospectus is followed in precise detail, the student's research design will not later be challenged.
- (2) Qualified approval: Changes may be made under the supervision of the chair without further committee involvement.
- (3) Qualified disapproval: The student must revise the prospectus and meet again with the whole committee.
- (4) Unqualified disapproval: The student must prepare a new prospectus or withdraw from the program.

When the committee has granted unqualified approval to a prospectus for a thesis or dissertation, the student must file in the Graduate School a copy of the prospectus bearing the approval signatures of all committee members, the department chair, and the academic dean. (This filing is not required for professional papers.) Revisions may be required at any level of review/approval. Departments typically require a more extensive prospectus, however, the copy filed in the Graduate School must be no longer than ten pages, setting forth salient aspects of the following:

- tentative title,
- purpose and rationale for the study,
- statement of the problem,
- proposed procedures, and
- other information deemed necessary by the committee.

If human subjects, animals, or outside agencies are involved, the appropriate permission and approval statements must also be filed with the prospectus. See the Graduate School publication *Guide to the Preparation and Processing of Dissertations, Theses, and Professional Papers*, for more details concerning preparation of

the prospectus (available at www.twu.edu/gradschool/).

Second Obligatory Meeting

At least ten days before this meeting, with the approval of the committee chair, the student gives each member of the committee a copy of the completed major study. At this meeting the student must defend the major study, although relevant questions outside its purview may be asked. The component decides whether the examination is written or oral. If the examination is oral, the meeting is announced and is open to the component faculty. Ordinarily, only the committee and the candidate participate in the examination; however, the committee may invite the participation of other faculty members. The committee's decision, made in executive session, takes one of the several forms listed below.

- (1) Unqualified approval: The committee recommends the student be approved for the degree by the Dean of the Graduate School.
- (2) Qualified approval: Suggested changes are made under the direction of the chair without another meeting of the committee and the committee will then recommend that the Dean of the Graduate School approve granting the degree.
- (3) Qualified disapproval: The research needs to be repeated or modified, or the major study rewritten extensively and resubmitted for another meeting of the committee. If a second formal defense of the major study is scheduled, two such meetings may not be scheduled in the same semester. (Two consecutive summer terms are considered one semester.)
- (4) Unqualified disapproval: The student is advised to withdraw from the program without completing the degree.

The committee chair promptly informs in writing the Dean of the Graduate School, the head(s) of the component(s), and the student of any decision falling into the category of unqualified approval or unqualified disapproval.

Preparation and Submission of Dissertations, Theses, and Professional Papers

TWU currently offers two methods of dissertation/thesis submissions the traditional paper option and a digital option.

Traditional paper submission: Requires the student provide 3 copies (5 for nursing students) of their dissertation/thesis, 2 on bond paper and 1 on plain paper.

Digital paper submission: Requires the student provide 1 printed copy for the student's department (if applicable) in addition a digital copy is uploaded to Proquest's database.

The Graduate School provides assistance for students completing a dissertation or thesis. The Senior Graduate Services Analyst provides formatting assistance, graduate school requirements as well as style manual formatting, corresponding forms and any applicable requirements. Contact information and hours of avail-

ability can be found on the Graduate School website under Thesis and Dissertation Consultation. (www.twu.edu/gradschool/thesis-and-dissertation-consultation.asp)

In addition to the services provided by the Graduate Services Analyst, the graduate school provides a *Guide to Preparation and Processing of Dissertations, Theses and Professional Papers* as well as a supplemental guide, *Formatting Navigator*. Both guides can be found on the graduate school website under the Degree Completion tab. (www.twu.edu/gradschool/degree-completion.asp)

College of Arts and Sciences

Dean: Ann Q. Staton, Professor

Location: CFO 1210

Senior Associate Dean: Don Edwards, Professor

Interim Associate Dean: Abigail Tilton, Associate Professor

Location: CFO 1210

Phone: 940-898-3326

Fax: 940-898-3366

Website: www.twu.edu/arts-sciences/

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

Graduate programs offered by these college components lead to the following master's degrees: Master of Arts, Master of Business Administration, Master of Fine Arts, Master of Health Systems Management, and Master of Science. In addition, the Specialist in School Psychology degree is offered, as well as the dual degrees, Master of Business Administration/Master of Health Systems Management and Master of Business Administration/Master of Science in Food Systems Administration.

Several graduate certificates are offered in the College. The Department of Sociology and Social Work offers the Post-baccalaureate Certificate in Diversity and the Post-baccalaureate Certificate in Social Science Research Methods. The School of Management offers a Post-baccalaureate Certificate in Business Management, and also one in Accounting. The Department of Women's Studies offers a Post-baccalaureate Certificate in Women's Studies.

Doctor of Philosophy programs are offered in the fields of Counseling Psychology, Dance, Molecular Biology, Rhetoric, School Psychology, Sociology, and Women's Studies.

Numerous research opportunities exist in these programs, and special facilities for graduate instruction and research are available. New programs are being developed.

General degree requirements of the University may be found in previous pages of this catalog. Specifics about the College's departments and programs can be found on the College website (www.twu.edu/arts-sciences/).

Department of Biology

Chair: Sarah McIntire, Professor

Location: GRB 230

Phone: 940-898-2351

Fax: 940-898-2382

E-mail: smcintire@twu.edu

Website: www.twu.edu/biology/

Faculty: Professors M. McArthur, S. McIntire, N. Mills, L. Uphouse; Associate Professors M. Bergel, H. Conrad-Webb, D. Hynds, C. Maier; Assistant Professors B. Beck, L. Hanson, S. Westmoreland; Laboratory Coordinator S. Ahmed.

Graduate Degrees Offered

M.S. in Biology

Ph.D. in Molecular Biology

The doctoral degree is offered through the Federation of North Texas Area Universities.

Students in the Department of Biology can obtain a graduate degree with an emphasis in molecular biology, microbiology, neurobiology, general biology, or science education. The primary objectives of the department are to provide education and training broad enough to prepare the student to enter careers in research, industry, or teaching. Within the department there are opportunities for both teaching and research assistantships. For teaching assistantships, students should request an application form from the department.

Admission Requirements

Please see the admission section at the front of this catalog. In addition to these general requirements, the Department of Biology requires the following for admission to its graduate degree programs:

1. A bachelor's degree in Biology or its equivalent. Students without an undergraduate Biology major will be considered if the departmental admissions committee believes that the student shows academic promise. These students may be granted provisional admission while they complete the requisite background coursework.
2. Submission of GRE scores. Those accepted into the Master's programs typically exceed 425 (148, verbal, and 140, quantitative, on the Revised GRE) in both the verbal and quantitative sections. Those accepted into the Ph.D. program commonly have GRE scores above 500 (153, verbal, and 144, quantitative, on the Revised GRE) in both the verbal and quantitative sections.

3. A statement of purpose (1-3 pages) that includes reasons for pursuing graduate work, background experience, and professional goals. Please include all contact information.
4. Three letters of recommendation from persons familiar with the applicant's academic capabilities. The statement of purpose and letters of recommendation should be submitted directly to the Biology Department.

In addition, admission to the Ph.D. program requires undergraduate courses in: Organic Chemistry (2 semesters); Calculus (2 semesters); and Physics (2 semesters).

International students should follow the application procedures outlined by the International Education Office, but should also send the statement of purpose and letters of recommendation to the Biology Department. Those students wishing to apply for teaching assistantships must demonstrate English speaking proficiency by one of the following:

- score of 26 or higher on the TOEFL iBT speaking section
- score of 50 or higher on the Test of Spoken English
- score of 7.5 or higher on the IELTS Speaking test
- score of 4- or higher on the MELAB Speaking test.

Applications of students who satisfy the Graduate School's admission standards are forwarded for review to the departmental admissions committee. This committee is responsible for recommending acceptance into Biology graduate programs.

General Requirements for All Master's Degrees

Total Hours Required: For the M.S. in Biology with research emphasis, a minimum of 30 hours, including 6 hours for thesis; for the M.S. in Biology with teaching emphasis, 36 hours, including 3 hours for professional paper and 6 hours of education or equivalent coursework as approved by the Advisory Committee.

Major/Emphasis: 24-27 hours of courses chosen with an advisory committee to fit the needs of the student.

Minor: 6 hours, usually chemistry.

Final Examination: Oral defense of the thesis or professional paper; may be retaken once upon approval of the committee.

Doctor of Philosophy

The Doctor of Philosophy degree in Molecular Biology is offered through a cooperative program of the Federation of North Texas Area Universities that includes Texas Woman's University and the University of North Texas. Within this degree option, course work is available in neurobiology.

The federation doctoral program provides opportunities for formal course work, seminars, independent study, participation in regional and national conferences, and dissertation research. The program also includes federation-sponsored seminars

featuring outstanding nationally and internationally recognized educators.

Graduate students enrolled at either UNT or TWU take courses at both universities, thus benefiting from the combined faculties of each school. Students graduating from a federation program will be granted the Ph.D. from the university through which they entered the program.

General Requirements for Doctoral Degrees

Total Hours Required: A minimum of 90 semester hours including those at the master's level and 6 hours for dissertation.

Core: (To be fulfilled by every Ph.D. student as early as possible in the program.)

BIOL 6513 - Molecular Biology

BIOL 6334 - Advanced Cell Biology

BIOL 6734 - Advanced Genetics

2 semesters of graduate Biochemistry

6 semester hours of "Techniques" courses (from a selection of "skill" courses such as Biostatistics, Electron Microscopy, Plasmid Techniques, Specific Molecular Techniques, etc.).

Research Tools: Proficiency in two competencies such as foreign languages, statistics, or computer science.

Residence Requirement: A Ph.D. candidate must spend one academic year in residence on the Denton campus.

Preliminary Examination: The preliminary examination will consist of two parts: a written literature review; and an oral examination covering the contents of the literature review as well as the field of cell and molecular biology. The student's advisory/research committee administers the examination.

Final Examination: An open seminar in which the student discusses research results, and an oral examination by the dissertation committee are required.

Minors Offered to Students in Other Departments

Master's level: 6 graduate hours of biology.

Doctoral level: 12 graduate hours of biology.

Courses of Instruction in Biology

BIOL 5003. Advanced General Biology. Review of modern concepts in the study of biology. Molecular foundations of metabolism, inheritance and development and of reactivity to the environment are emphasized. Prerequisite: Twelve undergraduate hours in Biology or instructor's permission. Three lecture hours a week. Credit: Three hours.

BIOL 5014. Advanced Bioinformatics and Computational Biology. Theory and methods for computational research of biomacromolecular and cellular structure and function, including the application of computational data storage and retrieval, pattern recognition, and chemical modeling techniques; research utilizing sequence analysis, structural prediction, genomics, phylogenetics, or systems biology. Three lecture hours, two laboratory hours a week. Credit: Four hours.

BIOL 5033. Advanced Science in the Secondary Classroom. Advanced strategies for teaching high school and middle school science using science inquiry and active learning techniques. Notebooking, portfolio building, 5E lesson plan design, classroom management, cooperative learning, assessment, and technology applications. Three lecture hours a week. Credit: Three hours.

BIOL 5111. Teaching Methods for Biology Laboratory Instructors. Examination of teaching methods in the biology laboratory. Development of attitudes and behaviors which typify the excellent teacher. One lecture hour a week. Credit: One hour.

BIOL 5113. Animal Diversity. Comparative aspects of the organization of the major phyla of animals are presented. Focus is on how different animals develop specialized adaptations for survival. Prerequisite: Twelve semester hours of undergraduate biology or instructor's permission. Chemistry recommended. Three lecture hours a week. Credit: Three hours.

BIOL 5123. Biostatistics. Advanced studies in biometric systems, experimental design, and data analysis. Prerequisite: Twelve hours of biology and permission of instructor. Three lecture hours a week. Credit: Three hours.

BIOL 5293. Advanced Scientific Communication. Advanced written and verbal communication skills involved in gathering, analyzing, and distributing scientific and technical information for specific scientific audiences; advanced research project design and implementation, data collection, and the design and application of appropriate statistical analysis. Three lecture hours a week. Credit: Three hours.

BIOL 5333. Advanced Pathophysiology. Principles of pathophysiology; including normal physiology, effects of abnormalities of function, instrumentation and measurement of physiological function. Three lecture hours a week. Credit: Three hours.

BIOL 5503. Research Methods. Studies in bibliographical procedures, the selection of methods applicable to specific problems, and writing and organization of review articles. One lecture, six laboratory hours a week. Credit: Three hours. May be repeated for additional credit.

BIOL 5611. Readings in Biology. Library research in selected subjects in biology. One hour a week. Credit: One hour.

BIOL 5613. Readings in Biology. Library research in selected subjects in biology. Three hours a week. Credit: Three hours.

BIOL 5681. Seminar. Presentation of research projects, data, and research; discussions of presentations and related literature or laboratory techniques. Credit: One hour. May be repeated for additional credit.

BIOL 5801. Biological Research. Nature of biological investigations; methods and tools of research; survey of scientific literature. Credit: One hour.

BIOL 5803. Biological Research. Nature of biological investigations; methods and tools of research; survey of scientific literature. Credit: Three hours.

BIOL 5881. Biological Research. Continuation of 5801. Credit: One hour.

BIOL 5883. Biological Research. Continuation of 5803. Credit: Three hours.

BIOL 5903. Special Topics. Offerings in biology, botany, microbiology, and zoology. Prerequisite: Permission of instructor. Credit: Three hours. May be repeated for additional credit.

BIOL 5911. Individual Study. Independent or tutorial work in selected areas in biology. Credit: One hour. May be repeated for additional credit.

BIOL 5913. Individual Study. Independent or tutorial work in selected areas in biology. Credit: Three hours. May be repeated for additional credit.

BIOL 5973. Professional Paper. Written presentation of literature and possible laboratory research in a selected area. Credit: Three hours. Credit applies only to the degree of Master of Science.

BIOL 5983. Thesis. Credit: Three hours.

BIOL 5993. Thesis. Credit: Three hours.

BIOL 6334. Advanced Cell Biology. Survey of current understanding of biogenesis, architecture and function of cellular organelles. The cell cycle and regulation of cell growth. Prerequisite: Permission of the instructor. Four lecture hours. Credit: Four hours.

BIOL 6513. Molecular Biology. Survey of current understanding of DNA structure, organization, chromosome replication, gene transcription, ribosome assembly, and translation. Emphasis is on molecular processes and their regulation in both prokaryotes and eukaryotes. Prerequisite: CHEM 5613 and CHEM 5623 or permission of the instructor. Three lecture hours per week. Credit: Three hours.

BIOL 6734. Advanced Genetics. A literature-based course covering theory, experimental methods and data analysis in genetics. Prerequisite: BIOL 6513 and BIOL 6334 or permission of instruction. Four lecture hours. Credit: Four hours.

BIOL 6821. Research in Molecular Biology. Application of molecular studies to biological problems. Credit: One hour. May be repeated for additional credit.

BIOL 6823. Research in Molecular Biology. Application of molecular studies to biological problems. Credit: Three hours. May be repeated for additional credit.

BIOL 6831. Research in Molecular Biology. Continuation of 6821. Credit: One hour. May be repeated for additional credit.

BIOL 6833. Research in Molecular Biology. Continuation of 6823. Credit: Three hours. May be repeated for additional credit.

BIOL 6843. Health Care Genetics. Human genetics and gene abnormalities with emphasis on application of new genomic technology in medicine; includes gene expression, inheritance, consequences of mutation, recombinant DNA technology, genetic testing, gene therapy and genomics; incorporation of sequence-based health with evidence-based practice. Fulfills requirement in the Doctorate

in Nursing Practice program. Credit: Three hours.

BIOL 6903. Special Topics. Selected studies in advanced biology. Prerequisite: Permission of instructor. Credit: Three hours. May be repeated for additional credit.

BIOL 6911. Individual Study. Independent work in selected areas of molecular biology. Credit: One hour. May be repeated for additional credit.

BIOL 6913. Individual Study. Independent work in selected areas of molecular biology. Credit: Three hours. May be repeated for additional credit.

BIOL 6983. Dissertation. Credit: Three hours.

BIOL 6993. Dissertation. Credit: Three hours.

Courses of Instruction in Bacteriology

BACT 5143. Pathogenic Microorganisms. Identification, disease producing mechanisms and public health significance of selected bacteria, viruses and fungi. Prerequisite: BACT 3113 or permission of instructor. Three lecture hours per week. Credit: Three hours.

BACT 6534. Plasmids as Vectors for Recombinant DNA. Molecular structure and replication of plasmids. Utilization of plasmids for isolation, characterization, and expression of prokaryotic and eukaryotic genes. Two lecture, six laboratory hours a week. Credit: Four hours.

BACT 6544. Viruses as Vectors for Recombinant DNA. Replicative cycle of viruses utilized in recombinant DNA technology. Viruses used to isolate genetic material from other sources and characterization of the recombinant DNA by size, restriction endonuclease mapping, and nucleic acid sequencing. Two lecture, six laboratory hours a week. Credit: Four hours.

Course of Instruction in Zoology

ZOOL 5423. Endocrinology. Advanced studies of biology and biochemistry of the glands of internal secretion. Prerequisite: ZOOL 4243. Three lecture hours a week. Credit: Three hours.

Courses at UNT

Molecular Biology related courses are offered at the University of North Texas. Students wishing to enroll in the following UNT courses will do so through a cross-registration mechanism administered by the Graduate School at TWU.

BIOL 5110. Endocrinology. 3 hours. Regulation of physiological processes in animals by hormones and related chemical agents. Prerequisite(s): BIOL 3800 or equivalent, or consent of department.

BIOL 5150. Pharmacology: The Biological Basis of Drug Action. 3 hours. An overview of pharmacology for graduate students, based on principles of drug action. The course emphasizes drugs by class, and not specific drugs per se. Course

covers general principles, antibiotics, and pharmacology of the autonomic, cardiovascular, central nervous, and endocrine systems.

BIOL 5160. Advanced Techniques in Microbiology and Molecular Biology. 6 hours. Intensive laboratory exercises in cultivation, analysis and gene transfer in bacterial mutants. Further emphasis on techniques for studying macromolecular and enzyme synthesis, preparation and analysis of plasmid DNA, cloning and gene expression. Prerequisite(s): microbiology, biochemistry or BIOL 3510.

BIOL 5180. Techniques in Molecular Biology. 6 hours. Teaches advanced molecular biology laboratory methodology. Techniques include gene cloning, plasmid purification, restriction analysis, DNA fingerprinting and DNA sequencing. Prerequisite(s): BIOL/BIOC 4750, or BIOL 5340, or consent of instructor.

BIOL 5250. Advanced Human Physiology. 3 hours. Physiological mechanisms in humans with emphasis on medical physiology.

BIOL 5340. Molecular Biology. 3 hours. Mechanisms and regulations of genetic expression, chromosome replication, mutagenesis and DNA repair, and gene cloning in prokaryotic and eukaryotic systems. Prerequisite(s): BIOL/BIOC 4570/4580 and at least two of the following: BIOC 4540/4550/4560 or BIOL 3450 or 3510/3520 (Same as BIOC 5340.)

BIOL 5470. Laboratory Techniques in Cytology. 1 hour. (0;3;1) Cytological techniques in plants, animals, and humans including karyotyping, cell and tissue culture, and sex chromatin analysis. Prerequisite(s) consent of department. May be taken with or without BIOL 5490.

BIOL 5490. Cytology and Cytogenetics. 3 hours. (2) Cell structure and function in plants and animals with emphasis on genetic and chromosomal aberrations. Prerequisite(s): consent of department.

BIOL 5500. Advanced Bacterial Physiology. 4 hours. (3;3;1) Recent advances in the biochemistry and physiology of bacteria. Prerequisite(s): BIOL 4500 or equivalent, and consent of department.

BIOL 5510. Advanced Immunology. 3 hours. Immune defense mechanisms including immunobiology, immunochemistry, serology, immune responses to infectious agents, allergy and autoimmune diseases.

BIOL 5760. Neurobiology Laboratory. 1-2 hours. Vertebrate neuroanatomy and experimental neurobiology using electrophysiological and behavioral methods. Prerequisite(s): concurrent enrollment in BIOL 6460 or consent of department.

BIOL 5800. Microbial Genetics. 3 hours, Genetic structure, inheritance and gene expression in microorganisms and their viruses. Prerequisite(s): BIOL 3450 and 4500 or equivalent, and consent of department.

BIOL 5830. Advanced Genetics. 3 hours. Genetic structure and inheritance in viruses, bacteria and higher organisms including gene biochemistry, gene expression, population genetics, cytogenetics and organelle genetics. Prerequisite(s): BIOL 3450 or equivalent, and consent of department.

BIOL 6080. Current Advances in Pharmacology. 3 hours. Course covers neuropharmacology, autonomic pharmacology and biochemical/molecular pharmacology. May be repeated up to a total of three times to cover all aspects.

BIOL 6220. Biostatistics. 6 hours. Statistical methods and experimental design; descriptive statistics; data presentation; parametric and nonparametric methods of hypothesis testing including two-sample tests, analysis of variance, regression and correlation analyses; introduction to multivariate statistics. Competency with computer statistical packages is developed. Computer fee required.

BIOL 6460. Cellular Neuroscience. 3 hours. A detailed examination of the nervous system, specifically neuroanatomy, neurophysiology, neurochemistry and sensory transduction. Prerequisite(s): consent of department.

BIOL 6480. Systems Neuroscience. 3 hours. A detailed examination of the major brain functions including sensation, perception, movement, emotions, language, thought and memory. Prerequisite(s): BIOL 6460 or equivalent or consent of department.

BIOL 6500. Brain Development and Plasticity. 3 hours. Development of the nervous system from early embryo through adulthood; neurogenesis, cell migration, differentiation, synaptogenesis; similarities among mechanisms of ontogeny, learning and regeneration; emphasis on experimental approaches. Prerequisite(s): BIOL 4750 or 6480 or equivalent is recommended.

BIOL 6540. Neurochemistry. 3 hours. Chemistry of the nervous system and behavior; pharmacology, anatomy and physiology of neurotransmitter systems; current techniques in neurochemistry and neuropharmacology. Prerequisite(s): BIOL 4750 or 6460 or equivalent, and one semester of undergraduate biochemistry are recommended.

BIOL 6600. Advanced Molecular Biology. 3 hours. Genetic structure and regulation of gene expression in prokaryotic and eukaryotic organisms; mechanisms of gene action, gene/enzyme relationships and metabolic control; biochemical manipulation and characterization of genetic macromolecules. Prerequisites(s): BIOL 4570 or 5340 or equivalent. (Same as BIOC 6600.)

BIOL 6620. Advanced Cell Biology. 3 hours. Structure and function of animal and plant cells with emphasis on cell membranes, cytoplasmic organelles and the nucleus; readings in current literature. Prerequisite(s): biochemistry, BIOL 3510/3520 or equivalent, or consent of department. (Same as BIOC 6620.)

Department of Chemistry and Biochemistry

Chair: Richard D. Sheardy, Professor

Location: ASSC 323

Phone: 940-898-2550

Fax: 940-898-2548

E-mail: chembiochem@twu.edu

Website: www.twu.edu/chemistry-biochemistry/

Faculty: Professors M. Britt, J. Gill, J. Johnson, C. Riggs, R. Sheardy; Associate Professors M. Anderson, J. Espinosa, R. Jones, M. Omary.

Graduate Degree Offered

M.S. in Chemistry

Analytical, biological, inorganic, organic, and physical chemistry are areas in which advanced coursework and research are available in the department. A course of study and research is designed by a faculty committee as a degree program leading to a master's degree best fitted to the individual's career goals. The department has excellent facilities and resources to support a broad variety of research directions.

Cooperation and interaction among the faculty and with the graduate students create an environment of strong support for the student in both studies and research, and facilitates the attainment of the educational goals of each student. Opportunities to serve as a teaching assistant and/or as a research assistant provide both financial support and educational experience. Fellowships and scholarships are also available.

Admission Requirements

Please see the admissions section at the front of this catalog. In addition to those general requirements and for unconditional admission, the Department of Chemistry and Biochemistry requires that the applicant for admission to graduate study leading to the Master of Science in Chemistry hold a bachelor's degree in chemistry, or the equivalent to a chemistry major offered at Texas Woman's University as described in the *General Catalog*. Preferred scores on the GRE Verbal of 400 (146, Revised GRE) and on the GRE Quantitative of 550 (146, Revised GRE) should be presented. An applicant with a bachelor's degree in another discipline may be admitted provisionally until all undergraduate deficiencies are cleared.

General Requirements for All Master's Degrees

Total Hours Required: A minimum of 30 hours, including 6 hours for thesis, for the M.S.

M.S. in Chemistry Core: A minimum of 12 hours of chemistry course work (excluding research, seminar, and thesis) approved by an advisory committee. Enrollment in CHEM 5101 Seminar is required each semester of students enrolled for 9 or more hours.

Final Examination: All candidates for master's degrees must pass a final oral examination administered by the student's research committee.

Minors Offered to Students from Other Departments

Master's level: 6 hours of organized graduate courses in the Department of Chemistry and Biochemistry as defined by the chemistry representative on the candidate's advisory committee.

Courses of Instruction in Chemistry

CHEM 5014. Modern Chemical Principles I. Fundamental Laws, States of Matter, Thermodynamics of Solutions, Chemical Equilibria. Three lecture and three laboratory hours a week. Credit: Four hours.

CHEM 5101. Seminar. Presentation of chemical papers of current interest, followed by discussion. Prerequisite: One semester of graduate work. One seminar hour a week. Credit: One hour.

CHEM 5213. Advanced Organic Chemistry. Problems and techniques of modern theoretical organic chemistry. Prerequisites: CHEM 3223 or equivalent. Three lecture hours a week. Credit: Three hours.

CHEM 5323. Advanced Analytical Chemistry. Activity and equilibrium in water and nonaqueous solvents; precipitation, complexation, redox, electrochemical and separative processes; sampling and statistics. Instrumentation. Prerequisites: CHEM 3424 and 4314 or equivalent. Three lecture hours a week. Credit: Three hours.

CHEM 5523. Advanced Inorganic Chemistry. Theory and description applicable to the elements and their inorganic compounds; bonding, structure stereochemistry, complexes, acid-base theory. Prerequisites: CHEM 4514 or equivalent. Three lecture hours a week. Credit: Three hours.

CHEM 5613. Biochemistry I. Chemistry and metabolism of substances of biochemical origin (carbohydrates, lipids, amino acids). Three lecture hours a week. Credit: Three hours.

CHEM 5623. Biochemistry II. Chemistry of proteins, enzymes, nucleic acids, and some specialized biochemical systems. Three lecture hours a week. Credit: Three hours.

CHEM 5891. Research in Chemistry. Original research. May be used as thesis subject. May be repeated for additional credit. Prerequisite: Permission of the instructor. Credit: One hour.

CHEM 5893. Research in Chemistry. Original research. May be used as a thesis subject. May be repeated for additional credit. Prerequisite: Permission of the instructor. Credit: Three hours.

CHEM 5896. Research in Chemistry. Original research. May be used as a thesis subject. May be repeated for additional credit. Prerequisite: Permission of the instructor. Credit: Six hours.

CHEM 5903. Special Topics. Lectures or conferences on recent developments in chemical theory or practice. May be repeated with change of topic for additional credit. Prerequisite: Permission of the instructor. Credit: Three hours.

CHEM 5911. Independent Study. Independent student readings or experimentation in chemistry. Prerequisite: Permission of instructor. Credit: One hour.

CHEM 5912. Independent Study. Independent student readings or experimentation in chemistry. Prerequisite: Permission of instructor. Credit: Two hours.

CHEM 5913. Independent Study. Independent student readings or experimentation. Prerequisite: Permission of instructor. Credit: Three hours.

CHEM 5953. Cooperative Education. Cooperative work-study arrangement between business, industry, or selected institution and the University. Pre-planning and evaluation will involve approximately 10% of the laboratory hours per week. May be repeated for credit. Nine laboratory hours a week. Credit: Three hours.

CHEM 5956. Cooperative Education. Cooperative work-study arrangement between business, industry, or selected institution and the University. Pre-planning and evaluation will involve approximately 10% of the laboratory hours per week. May be repeated for credit. Eighteen laboratory hours a week. Credit: Six hours.

CHEM 5973. Professional Paper. Written presentation of literature and possible laboratory and/or statistical research in a selected area of chemistry. Credit: Three hours.

CHEM 5983. Thesis. Credit: Three hours.

CHEM 5993. Thesis. Credit: Three hours.

Courses of Instruction in Physics

PHYS 5014. Fundamentals of Physics I. Introductory physics for non-physics majors, intended to satisfy a requirement for teacher certification; mechanics, heat, and sound. Experimental laboratory work on topics to correlate with lecture material. Three lecture hours a week, three laboratory hours a week. Credit: Four hours.

PHYS 5024. Fundamentals of Physics II. Introductory physics for non-physics majors, intended to satisfy a requirement for teacher certification; electricity and magnetism, light, and atomic and nuclear physics. Experimental laboratory work on topics to correlate with lecture material. Three lecture hours a week. Credit: Four hours.

PHYS 5913. Individual Study. Independent study in advanced physics. Credit: Three hours. May be repeated for additional credit.

Courses of Instruction in Science

SCI 5313. Introduction to Oceanography. An integrated study of the interdisciplinary relationship and applications of the biological, chemical, geological, meteorological, and physical sciences to the study of the oceans. Prerequisites: Six hours of science. Three lecture hours a week. Credit: Three hours.

SCI 5323. Advanced Physical Geology. Advanced treatment of earth materials, internal and external geological characteristics and processes, structural geology, and geology of Texas. Prerequisite: Six hours of earth science or consent of instructor. Three lecture hours a week. Credit: Three hours.

SCI 5343. Meteorology and Astronomy. Composition and structure of the atmosphere; clouds, air masses, storms, and weather. Composition and structure of the solar system; stars, comets, and galaxies. Prerequisites: CHEM 5014, PHYS 5014, PHYS 5024. Three lecture hours a week. Credit: Three hours.

SCI 5353. Environmental Science. An integrated study of the interdisciplinary relationships and applications of the biological, chemical, geological, and physical sciences to the study of the environment and environmental problems to enhance understanding of the human impact on the environment; water quality and pollution; air pollution; solid wastes; resource conservation. Prerequisites: BIOL 5013; CHEM 5014, PHYS 5014; SCI 5323. Three lecture hours a week. Credit: Three hours.

SCI 5903. Special Topics in Science. Advanced topics in general science. Three lecture hours a week. Credit: Three hours.

SCI 5911. Individual Study in Science. Independent student readings or study in general sciences. Prerequisite: Permission of the instructor. Credit: One hour.

SCI 5913. Individual Study in Science. Independent student readings or study in general science. Prerequisite: Permission of the instructor. Credit: Three hours.

Department of English, Speech, and Foreign Languages

Chair: M. Genevieve West, Professor

Location: CFO 906

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Fax: 940-898-2297

E-mail: gwest@twu.edu

Website: www.twu.edu/english-speech-foreign-languages/

Faculty: Professors P. Bridges, B. Krajewski, S. Souris, A. Staton, A. Stuart, L. Thompson, M.G. West; Associate Professors V. Casper, R. Greer, A. Litton, N. Nik; Assistant Professors D. Lackey, G. Scott.

Graduate Degrees Offered

M.A. in English

Ph.D. in Rhetoric

The Department of English, Speech, and Foreign Languages offers study leading to the Master of Arts degree in English and to the Doctor of Philosophy in Rhetoric. The major objectives of the department include both the provision of broad cultural foundations and the preparation of students for a variety of careers: teaching, administration, publishing, business, and government service. The department emphasizes literature, language, composition, and rhetoric. The M.A. student may specialize in British or American literature or in rhetoric. The Ph.D. student specializes in rhetoric. The department's emphasis on rhetoric is a coordinating force among the basic issues within each field offered in the department.

Admission Requirements

Students must meet the general admission requirements of the Graduate School at TWU. In addition, departmental requirements include the following: a preferred score of 500 (153, Revised GRE) on the verbal section of the GRE and a preferred score of 350 (138, Revised GRE) on the quantitative section of the GRE; a minimum of a 3.0 grade point average on previous upper division and graduate work; official transcripts; three letters of recommendation; a writing sample and statement of purpose (for doctoral admission); and a score of 600 on TOEFL for international students. A personal interview may be required for graduate students who are seeking a teaching assistantship.

Doctoral applications are reviewed once per year and are due by February 1. M.A. applications are reviewed three times per year. Applications are due by

July 1 for Fall admission, November 1 for Spring admission, and April 1 for Summer admission.

General Requirements for Master's Degree

Total Hours Required: 30-36 hours beyond the baccalaureate depending on option selected.

Options:

Thesis: 30 hours, including 24 hours of course work, 6 hours for thesis, 2-hour oral exam.

Professional Paper: 36 hours, including 33 hours of course work, 3 hours for professional paper, 3-hour written comprehensive examination.

Course work: 36 hours of course work, 3-hour written comprehensive examination.

Major/Emphasis: 18-36 hours.

Minor: 6-9 hours, optional.

Core Course Requirement: English 5083, Bibliography and Research Methods, in all options

Special Requirement: For M.A. in English, competency in one research tool.*

Final Examination: For M.A. in English, a two-hour oral examination which covers course work and thesis (thesis option) or a three-hour written comprehensive examination (non-thesis options). The examinations will be taken during the last semester of coursework.

General Requirements for Doctoral Degree

Total Hours Required: At least 90 hours beyond the baccalaureate, including 12 hours for dissertation.

1. Rhetoric Core: Minimum of 21 hours in historical, theoretical, and applied rhetoric.

Required Courses:

ENG 5343: Rhetoric and Composition: Theory and Practice

ENG 5353: Rhetoric and Composition: Theory and Pedagogy of Electronic Texts

ENG 6203: History of Rhetoric I

ENG 6213: History of Rhetoric II

ENG 6223: History of Rhetoric III

Two elective courses in Rhetoric

*See Research tools.

- 2. Literature Component:** Minimum of 18 hours
- 3. Linguistics Component:** Minimum of 3 hours
- 4. Literary Theory Component:** Minimum of 3 hours
- 5. Electives:** To complete 90 hours beyond bachelor's degree
- 6. Dissertation:** 12 hours

Minor: A minor is optional (six to nine hours). It must be in a discipline that offers a graduate degree. Accordingly, one cannot minor in, say, literary theory or linguistics. To be able to teach the subject of one's minor at the college level in Texas, one would probably need eighteen hours of course work. Consult the *Graduate Catalog* for additional information about minors. Students may wish to discuss the value of a minor with their advisors.

Research Tools: Two research tools are required.

Residence Requirements: Students are strongly encouraged to enroll full time for at least two consecutive semesters.

The Qualifying Examination is administered at the close of course work after the student has met the research tools requirement. These examinations are offered only during April, July, or November of each year. The written examination has three parts: Historical/Theoretical Rhetoric, Applied Rhetoric, and Literature. The literary areas from which students choose for the Literature section are: Old and Middle English Language and Literature, Renaissance and 17th Century British literature, Restoration and Early/Mid-18th Century (ends at 1783) British literature, Late 18th Century and 19th Century British literature, 20th and 21st Century British literature, Pre-1865 American literature, Post-1865 American literature. The oral examination is held within a month of the student's successfully completing the written examinations.

Dissertation Defense: A public oral examination covering the area of the completed dissertation and areas related to it.

Research Tools for the M.A.

Students select one of the following options:

1. 12 credit hours in the same foreign language at the undergraduate level or 6 hours at the graduate level (or the equivalent on a proficiency examination)
2. 6 credit hours of graduate-level American Sign Language
3. 6 credit hours of graduate-level computer science
4. 6 credit hours of graduate-level library science**
5. 6 hours of graduate-level English courses from the list below***

* See department for information on equivalency examination.

** Library science classes include only those concerning collections, information retrieval, and other research courses.

Research Tools for the Ph.D.

For the M.A., students choose one of the following options.

For the Ph.D., students choose two of the following options

(may choose the same option twice).

Students have the following options:

1. 6 credit hours of graduate or 12 hours of undergraduate courses in the same foreign language or equivalency examination*
2. 6 credit hours of graduate-level American Sign Language or equivalency examination*
3. 6 credit hours of graduate-level computer science
4. 6 credit hours of graduate-level library science**
5. 6 hours of graduate-level English courses***

***English courses that satisfy requirements for Research Tools include:

ENG 5083 Bibliography and Research Methods +

ENG 5713 Old and Middle English Language and Literature

ENG 5283 Studies in Literary Criticism

ENG 5343 Rhetoric and Composition: Theory and Practice +

ENG 5353 Rhetoric and Composition: Theory and

Pedagogy of Electronic Texts +

ENG 5373 Professional and Academic Communication

ENG 6083 Research Methods in Rhetoric and Composition

ENG 6313 Studies in Rhetorical Criticism and Discourse Analysis +

+ May be repeated for credit when the specific topic of investigation varies.

Students must receive a grade of 'B' or better in all research tools.

English courses taken as research tools will count towards the 90 hours of the degree major; however, other courses (foreign language, computer science, and library science) will not count towards the 90 hours of the degree major.

Certification Programs Offered

The Department of English, Speech, and Foreign Languages offers 8-12 English/Language Arts teacher certification. All post-baccalaureate and graduate students seeking certification in 8-12 English/Language Arts must comply with admission standards required by the department, the College of Professional Education, and the College of Arts and Sciences.

Minor Offered to Students from Other Departments

The department offers master's and doctoral-level minors in English. The needs of the individual graduate student determine the contents of a minor.

* See department for information on equivalency examination.

** Library science classes include only those concerning collections, information retrieval, and other research courses.

Courses of Instruction in English

ENG 5033. Chaucer. Major works of Chaucer studied as literature and as linguistic examples of Middle English; attention to significant scholarship and criticism. Prerequisites: Bachelor's degree with concentration in English and ENG 3303 or its equivalent. Three lecture hours a week. Credit: Three hours. May be repeated for credit when the specific works to be studied vary.

ENG 5043. English Grammar and Syntax. Historical background of morphology and syntax related to basic structure and the contributions of the prescriptive and the descriptive grammarians and the transformationists. Prerequisites: Bachelor's degree with concentration in English and ENG 3303 or its equivalent. Three lecture hours a week. Credit: Three hours.

ENG 5083. Bibliography and Research Methods. Methods of research, with focus on techniques appropriate to the thesis or dissertation. Prerequisite: Graduate standing. Three lecture hours a week. Credit: Three hours. May be repeated for credit up to 12 hours.

ENG 5143. Drama of the Restoration and the Eighteenth Century. Representative comedies, tragedies, and other plays studied as reflections of the literary trends of the period. Attention to significant criticism and to the position of this drama in the development of the English drama. Prerequisites: Graduate standing and a concentration in English. Three lecture hours a week. Credit: Three hours.

ENG 5153. Studies in Twentieth-Century American and British Literature. Directed investigation of a topic relating to a trend, a work, a genre, or an author in twentieth-century American and/or British literature. Prerequisite: Graduate standing or approval of the instructor of the course. Three lecture hours a week. Credit: Three hours. May be repeated for credit when the topic of investigation varies.

ENG 5163. Sociolinguistics. Investigates relationships between language and society. Includes linguistic identity of social groups, social attitudes to language, patterns of national language use, social varieties of language, social bases of multilingualism. Employs both empirical and ethnographic methods. Three seminar hours a week. Credit: Three hours.

ENG 5173. Studies in Ethnic, Multicultural, and Cross Cultural Literature. Literature in English by authors whose work reflects the experience of ethnic or minority groups. Focus on themes, genres, particular groups, authors, or historical periods. May be repeated for credit when specific topic of investigation varies. Three lecture hours a week. Credit: Three hours.

ENG 5213. Studies in the English Renaissance. Directed investigation of a problem in the dramatic and non-dramatic literature of the sixteenth century. Prerequisite: Bachelor's degree with a concentration in English. Three lecture hours a week. Credit: Three hours. May be repeated for credit when the specific topic of investigation varies.

ENG 5223. Studies in Seventeenth-Century Poetry and Prose. Directed investigation of a problem in the literary career of a writer, in a single work, or in an aspect of the century related to literature. Prerequisite: Bachelor's degree with

a concentration in English. Three lecture hours a week. Credit: Three hours. May be repeated for credit when the specific topic of investigation varies.

ENG 5233. Studies in the Literature of the Eighteenth Century. Directed investigation of a problem relating to such subjects as an author, a work, a genre, an idea, a critical principle, an aesthetic theory. Prerequisite: Bachelor's degree with a concentration in English. Three lecture hours a week. Credit: Three hours. May be repeated for credit when the specific topic of investigation varies.

ENG 5243. Studies in the Romantic Period. Directed investigation of a topic related to genre, style, thought, critical theory, and the interrelationship of the artist and his or her art in the Romantic Period or to a major poet, such as Blake, Wordsworth, Coleridge, Byron, Shelley, or Keats. Prerequisite: Bachelor's degree with a concentration in English. Three lecture hours a week. Credit: Three hours. May be repeated for credit when the specific topic of investigation varies.

ENG 5253. Studies in the Victorian Period. Directed investigation of a topic concerning a prose work by Carlyle or Macaulay or the poetry and criticism of Arnold or the poetry of Tennyson and Browning. Prerequisite: Bachelor's degree with a concentration in English. Three lecture hours a week. Credit: Three hours. May be repeated for credit when the specific topic of investigation varies.

ENG 5263. Studies in American Literature. Directed investigation of a problem in the literary career of a writer, in a work, or in a trend in American literature. Prerequisite: Bachelor's degree with a concentration in English. Three lecture hours a week. Credit: Three hours. May be repeated for credit when the specific topic of investigation varies.

ENG 5273. Studies in Fiction. Directed investigation of a problem in English or American fiction in the eighteenth, nineteenth, and/or twentieth centuries. Prerequisite: Bachelor's degree with a concentration in English. Three lecture hours a week. Credit: Three hours. May be repeated for credit when the specific topic of investigation varies.

ENG 5283. Studies in Literary Criticism. The schools of criticism, focusing on postmodern criticism; the application of some critical theories to the practice of rhetoric; critical theory in a given period. Prerequisite: Bachelor's degree with a concentration in English. Three lecture hours a week. Credit: Three hours.

ENG 5333. Studies in Writing in Networked Environments. Classroom and business application of rhetorical principles to writing for Internet, electronic communication, and information systems. Emphasis on audience, genre, style, arrangement. Three seminar hours a week. Credit: Three hours.

ENG 5343. Rhetoric and Composition: Theory and Practice. Introduction to theory and research in rhetoric and composition with special emphasis on preparation for teaching college composition. Prerequisite: Bachelor's degree with a concentration in English or allied field. Three lecture hours a week. Credit: Three hours.

ENG 5353. Rhetoric and Composition: Theory and Pedagogy of Electronic Texts. Rhetorical theories and techniques of teaching with non-print

texts, particular attention to writing and literature. Investigates interactions between text and image. Prerequisite: ENG 5343. Three lecture hours a week. Credit: Three hours. May be repeated for credit when topics vary.

ENG 5363. Studies in Linguistics. Directed investigation of problems such as feminism and language, pragmatics, discourse analysis, linguistics, and composition. May be repeated for credit when the specific topic of investigation varies. Three lecture hours a week. Credit: Three hours.

ENG 5373. Professional and Academic Communication. Topics such as managerial communication, academic writing, technical writing. Projects develop writing and communication skills in the student's discipline. Prerequisite: Nine hours of graduate study or permission of the instructor. May be repeated when topic varies. Three seminar hours a week. Credit: Three hours.

ENG 5393. Women and American Literature. Focus on changing images of female characters and on contributions of female writers throughout American literature. Emphasis may be on fiction or on poetry and drama. Prerequisites: Concentration in English and graduate standing. Three lecture hours a week. Credit: Three hours. May be repeated for credit when the topic varies.

ENG 5703. Studies in Folklore. Focus on the major aspects of folklore, particularly the transmission of knowledge and cultural values through the oral tradition. Special emphasis on the impact of folklore on literature. Three lecture hours a week. Credit: Three semester hours. May be repeated for credit when the specific topic of the investigation varies.

ENG 5713. Old and Middle English Language and Literature. Topics in language and literature before 1500 including history and development of the language before 1500, and survey of Old and Middle English literature. Three lecture hours a week. Credit: Three hours.

ENG 5903. Special Topics. Investigation in traditional lecture format of a specific literary or linguistic topic. Prerequisite: Graduate standing and an undergraduate concentration in English. Three lecture hours per week. Credit: Three hours. May be repeated for credit when the specific topic of investigation varies.

ENG 5913. Individual Study. Intensive investigation of a literary or linguistic area. Conferences, readings, lectures. Prerequisites: Graduate standing and an undergraduate concentration in English. Credit: Three hours. May be repeated for credit when the specific topic of investigation varies.

ENG 5953. Cooperative Education. Cooperative work-study arrangements between the University and business, industry, or selected institutions appropriate to the graduate English program. Job assignments are made on the basis of student interests, skills, and degree program. The student will apply the ideas and processes learned in other courses in practical experience under cooperative supervision. Cooperative planning and evaluation are essential elements in the course. For three hours of credit, 15-20 hours of work per week are required.

ENG 5973. Professional Paper. Prerequisites: Bachelor's degree with a concentration in English and ENG 5083. Credit: Three hours. May be repeated.

ENG 5981. The Professional Portfolio. Development of a professional portfolio by students in the Master of Arts in Teaching program demonstrating the student's growth in the Learner-Centered Competencies. Pass-fail grade only. May be repeated. Credit: One hour.

ENG 5983. Thesis. Prerequisite: Bachelor's degree with concentration in English. It is recommended that the student amass several hours' credit in graduate courses before beginning study for the thesis. Credit: Three hours. May be repeated.

ENG 5993. Thesis. Prerequisite: ENG 5983. Credit: Three hours. May be repeated.

ENG 6063. Writing in the Discipline. Development of documents common in rhetorical and literary studies. Genres may include CV, job application materials, abstracts, book reviews, prospecti, presentations, articles, and teaching philosophies. Prerequisite: six hours of graduate-level course work with a 'B' or better. Three lecture hours a week. Credit: Three hours.

ENG 6083. Research Methods in Rhetoric and Composition. Students design and conduct research through methods such as textual, ethnographic, historical, and empirical analysis in rhetoric and composition. Students learn to discriminate among types of research, examine scholarship critically, and select appropriate research designs. Seminar and research projects. Three hours a week. Credit: Three hours.

ENG 6123. Milton. The major poetic works and selected prose works of John Milton, against the background of seventeenth-century English life. Attention to significant scholarship and criticism. Prerequisites: Graduate standing and a concentration in English. Three lecture hours a week. Credit: Three hours.

ENG 6203. History of Rhetoric I. Foundations of ancient and classical rhetoric. Readings in Plato, Aristotle, Quintilian and others. Three lecture hours a week. Credit: Three hours.

ENG 6213. History of Rhetoric II. Historical survey of rhetoric from the medieval period through the renaissance. Readings in medieval rhetorical handbooks, schools in Renaissance, humanism, poetics, and rhetoric of the seventeenth century. Three lecture hours a week. Credit: Three hours.

ENG 6223. History of Rhetoric III. Historical survey of rhetoric from the Enlightenment to the present. Readings in Locke, Vico; contributions of Blair, Campbell, and Whately; pulpit oratory; elocution; American composition and rhetoric; new perspectives; contemporary rhetorical strategies; invention as discourse theory. Three lecture hours a week. Credit: Three hours.

ENG 6313. Studies in Rhetorical Criticism and Discourse Analysis. Directed investigation of topics in semiotics, narratology, discourse analysis, and stylistics as approaches to written texts and other forms of symbolic communication. May be repeated for credit when the specific topic of investigation varies. Three lecture hours a week. Credit: Three hours.

ENG 6323. Studies in Feminist Rhetoric. Directed investigation of problems in feminism and rhetoric such as feminist histories of rhetoric, feminist

rhetorical theories, feminist composition pedagogy, feminism and technology, and feminist epistemology. May be repeated for credit when the specific topic of investigation varies. Three lecture hours a week. Credit: Three hours.

ENG 6343. Major Rhetorical Theories. Intensive investigation of selected major rhetoricians and schools of rhetorical thought within the history and development of rhetoric. Prerequisite: ENG 6203 or permission of instructor. May be repeated for credit up to 12 hours when specific topic of investigation varies. Three lecture hours a week. Credit: Three hours.

ENG 6733. Studies in the Profession of Rhetoric and Composition. Current theoretical issues and skills needed for professions in academic and non-academic settings, such as administering writing programs, designing cross-discipline writing programs, or pursuing careers in writing and editing in business settings. May be repeated for credit when topic of investigation varies. Three lecture hours a week. Credit: Three hours.

ENG 6801. Directed Readings in Rhetoric. Directed readings in an area of literary and/or rhetorical studies. Student must be concurrently completing or have completed all required organized courses. Credit: One Hour. May be repeated twice for credit.

ENG 6913. Individual Study. Intensive investigation of a literary, rhetorical, or linguistic area. Conferences, readings, lectures. Prerequisites: Graduate standing and an undergraduate concentration in English. One lecture and four laboratory hours a week. May be repeated for credit when the specific topic of investigation varies. Credit: Three hours.

ENG 6983. Dissertation. Prerequisite: Successful completion of the qualifying examination. Credit: Three hours. May be repeated for additional credit.

ENG 6993. Dissertation. Prerequisite: ENG 6983. Credit: Three hours. May be repeated for additional credit.

Department of History and Government

Interim Chair: Barbara Presnall, Professor

Location: CFO 605

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Website: www.twu.edu/history-government/

Faculty: Professors V. Belfiglio, L. Hodges, T. Hoye, B. Presnall, J. Robb, P. Travis; Associate Professors J. Blosser, K. Landdeck; Assistant Professor S. Fanning.

Graduate Degrees Offered

M.A. in History

M.A. in Government

The Department of History and Government offers two master's degrees, one in history and one in government. A minor in either history or government is also available to master's-level graduate students. Students in other graduate departments are welcome to take graduate courses in the department with the consent of the instructor.

The M.A. in government provides a postgraduate study of U.S. and global politics, political processes, and government institutions. In history, the M.A. emphasizes social and political history in the United States, Europe, Latin America, and the Caribbean. The extensive Women's Collection at the Blagg-Huey Library is an excellent research resource for graduate students. Students are encouraged by the faculty to consider courses from other disciplines outside the department as part of their graduate program. Course selection should be made with the advice and approval of the student's graduate committee.

The department's programs include internships providing students with supervised field experience in both the public and private sectors. Opportunities to participate in oral history projects also are available.

Admission Requirements

Please see the admission section earlier in this catalog. In addition to these general requirements, the Department of History and Government requires the following for admission to its graduate degree programs:

1. A student's record overall clearly should reflect the ability to pursue advanced study, conduct research, and write effectively in the field selected.
2. Applicants should document a strong preparation in the liberal arts.

3. The applicant is expected to have at least a 3.25 average in the last 60 hours of course work and at least 12 hours of upper-division undergraduate or graduate work in the major field.

4. Applicants are required to submit a statement of purpose to the department. Two letters of recommendation are required. Applicants who do not meet the above prerequisites at the time of application may, under exceptional circumstances, be recommended for provisional admission by the appropriate director of graduate studies.

General Requirements for All Master's Degrees

Total Hours Required: 30-39 hours minimum with at least 21 hours of course work in the major.

Thesis Option: Minimum of 30, including 6 hours credit for the thesis.

Professional Paper Option: Minimum of 36, including 3 hours credit for the professional paper.

Combined History and Government Option: Minimum of 39, including 3 hours credit for the professional paper. (Note: Student must select one field as major and one as a minor.)

Students in government, in consultation with their graduate committee, may substitute for the thesis or professional paper a six credit practicum with a paper defended before their committee.

The student will select one of the above options with consultation and approval of her or his graduate committee. The student's graduate committee may require completion of more than the minimum number of hours indicated and specify courses to be included in the student's individual degree plan.

Major: 21 hours of course work in the specified major. Completion of required course in Professional Practices, plus four course distribution requirement. In history, students must take at least one course in 17th or 18th century U.S. history, 19th century U.S. history, U.S. history since 1900, and non-U.S. history. In consultation with their graduate committee, students in history may emphasize the study of public history, an option that includes work in an internship. In government, students must take at least one course in U.S. politics, law, and government, global/comparative politics, political theory, and politics and identities.

Minor: Optional. All minors must be approved by the student's graduate committee and must include at least 6 hours.

Special Requirement: No grade lower than 'B' can be counted toward meeting the minimum number of hours required

Final Examination: An oral defense of the thesis or professional paper is required.

Minors Offered to Students from Other Departments

Master's level: 6 graduate hours in history or 6 graduate hours in government.

Courses of Instruction in History

HIST 5003. Studies in 19th Century US. A study of the 19th century with discussion and analysis of various historian's interpretations of the same events. Increased knowledge of the events of this period and the study of how one writes history will be included in this course. May be repeated for credit when topics vary. Three lecture hours a week. Credit: Three hours.

HIST 5023. Colonial America in an Atlantic World. A cross-cultural study of colonial America; the varied social, economic, political, and cultural experiences of Africans, Europeans, and Native Americans from 1450 through 1763. Three lecture hours a week. Credit: Three hours.

HIST 5083. Studies in 20th Century America. Examination through directed discussions of selected topics on the political, social, and cultural aspects of the American experience since the turn of the century with particular emphasis on reform and social change. May be repeated for credit when topics vary. Three lecture hours a week. Credit: Three hours.

HIST 5103. Renaissance and Reformation. Cross-cultural study of European culture and society from 1350 to 1600; Italian, French, Dutch, English, and German artistic achievements, social and political development, and religious reformations compared and contrasted. Three lecture hours a week. Credit: Three hours.

HIST 5123. Religion in an Atlantic World, 1450-1776. Cross-cultural study of religious ideas and practice in colonial America from pre-Columbian era through 1776; varied religious experiences of indigenous groups, Spanish, French, English, Dutch, and German colonists, and enslaved African Americans are compared and contrasted. Three lecture hours a week. Credit: Three hours.

HIST 5143. Early National Period. Extensive readings and study in the creation of a new government with intense discussions and debate of traditional historians views of John and Abigail Adams, Thomas Jefferson, Sally Hemmings, Alexander Hamilton and others concerning federalist and anti-federalists ideologies. Three lecture hours a week. Credit: Three hours.

HST 5183. Civil War: Culture, History and Law (Cross-listed with GOV. 5183). Social, political, and legal context of the War between the States. Analysis of southern secession from the Union, the struggle to restore the Union, and the political and legal struggles of former slaves and their descendants. Three lecture hours a week. Credit: Three hours.

HIST 5203. Jefferson to Jackson. Period from Thomas Jefferson to Andrew Jackson; historical events concerning the political and social circumstances with a young government. Three lecture hours a week. Credit: Three hours.

HIST 5303. Progressives. The early twentieth century era and its social movements; politics, gender and race issues along with the nation's foreign policy and the continuity of society's social development from a historical perspective. Three lecture hours a week. Credit: Three hours.

HIST 5333. The Gilded Age. Rapid transformation from an agricultural and mercantile economy to industrialism presented unprecedented opportunities to speculators and inventive entrepreneurs. American wealth saga established mercantile society which transformed itself by opportunistic industry leaders or speculative railroad promoters. Three lecture hours a week. Credit: Three hours.

HIST 5403. American Experience in World War II. How America shaped the War and how the War shaped America including military, social, political and economic aspects; traditional historians' views on the period. Three lecture hours a week. Credit: Three hours.

HIST 5413. Civil Rights: Culture, History and Law (Cross-listed with GOV 5413). Social, political and legal concepts of the Civil Rights Movement; historical and legal issues of Jim Crow laws, Plessy vs. Ferguson, and Brown vs. Board of Education, Supreme Court decisions; peaceful protests; forms of social disorder in a quest for equal rights. Three lecture hours a week. Credit: Three hours.

HIST 5423. Native Americans: Culture, History and Law (Cross-listed with GOV 5423). Relations between European settlers and Native American tribes with emphasis on cultural difference, land use, and government-tribe relations. Three lecture hours a week. Credit: Three hours.

HIST 5443. Studies in English History. Major trends in the development of English society, the growth of Parliament, the religious changes in England, industrialization, the growth of empire, and England's role in world affairs. Three lecture hours a week. May be repeated for credit when topics vary. Credit: Three hours.

HIST 5473. Vietnam War: Culture, History and Law (Cross-listed with GOV 5473). Historical context of American involvement in the Vietnam conflict; political decisions of the Kennedy, Johnson, and Nixon administrations; impact of the war on political protest and social unrest; courts resolution of related controversies; legacy of the war. Three lecture hours a week. Credit: Three hours.

HIST 5483. War, National Security and Civil Liberties (Cross-listed with GOV 5483). Public policy solutions regarding the balance between maintaining national security and protecting civil liberties; history of the nation's attempts to evaluate security policies from colonial times to current events. Three lecture hours a week. Credit: Three hours.

HIST 5502. Between the Wars. Social, political, and economic history of the U.S. and the wars for particular eras; consumerism, conflicts, music, and literature during the interwar time period. Three lecture hours a week. Credit: Three hours.

HIST 5603. Professional Practices. A survey of professional practices engaged in by individuals with advanced degrees in history and political science. Through careful reading and discussion of texts and other materials, students explore issues related to teaching, research and service. Three lecture hours a week. Credit: Three hours.

HIST 5703. U.S. Since 1945. Social, political, economic, and multicultural history of the United States from 1945 to September 11th; the Cold War and its influence on American policies, beliefs, and post-Cold War realities; military conflicts, foreign policy, multicultural experiences, and domestic challenges. Three lecture hours a week. Credit: Three hours.

HIST 5713. Studies in Texas History. The sweep of Texas history from the early Indian cultures and Spanish colonial institutions to contemporary political, social and economic developments. May be repeated for credit when topics vary. Three lecture hours a week. Credit: Three hours.

HIST 5753. Age of Industrialism (Cross-listed with GOV 5753). Historical, cultural, and legal context for transformation of United States to urbanized, industrial power between 1870 and 1920; impact of railroads, the "Robber Barons," and struggles between organized labor and management. Three lecture hours a week. Credit: Three hours.

HIST 5763. Studies in Latin American History. An analysis of political, economic, cultural and intellectual trends from colonial times to the present; emphasis on Argentina, Brazil, Chile, Mexico. May be repeated for credit when topics vary. Three lecture hours a week. Credit: Three hours.

HIST 5803. Oral History Methodology. Theories, methods, and debates surrounding the oldest historical tool, oral history; methodology for conducting oral histories, debate and completing transcripts; consideration of privacy, storage and accessibility. Three lecture hours a week. Credit: Three hours.

HIST 5863. Studies in Women's History. Study of shifting roles of women and their struggle for equality in relationship to changes in social, economic, and political institutions in American society. May be repeated for credit when topics vary. Three lecture hours a week. Credit: Three hours.

HIST 5903. Special Topics. Organized course with section's title and content varying with specific subject matter and topic offered. May be repeated for credit when topics vary. Three lecture hours a week. Credit: Three hours.

HIST 5911. Individual Study. Independent study of selected topics in history. May be repeated for credit when topics vary. Credit: One hour.

HIST 5913. Individual Study. Independent study of selected topics in history. May be repeated for credit when topics vary. Credit: Three hours.

HIST 5933. Internship. Supervised practical experience, related to the academic and career objectives of the student, in a public or private agency. 15-20 hours of work per week. A paper will be required. Credit: Three hours. May be repeated for a total of six hours.

HIST 5936. Internship. Supervised practical experience, related to the

academic and career objectives of the student, in a public or private agency. 30-40 hours of work per week. A paper will be required. Credit: Six hours.

HIST 5973. Professional Paper. The research and writing of a professional paper by each student on a topic selected jointly by the student and the instructor. Credit: Three hours.

HIST 5981. The Professional Portfolio. Development of a professional portfolio by students in the Master of Arts in Teaching program demonstrating the student's growth in the Learner-Centered Competencies. Pass-fail grade only. May be repeated. Credit: One hour

HIST 5983. Thesis. Credit: Three hours.

HIST 5993. Thesis. Credit: Three hours.

Courses of Instruction in Government

GOV 5003. Studies in Comparative Politics. Review of major theoretical models and approaches in the field of comparative politics including group politics, elite analysis, class analysis, structural functional analysis, and systems theory with emphasis upon modernization and political development. Three lecture hours a week. Credit: Three hours.

GOV 5013. American National Defense Policy. Review of alternative theories of American national defense policy with emphasis upon historical development of current U.S. policy, including nuclear strategies, mutual defense agreements, regional conflicts, guerilla warfare, terrorism, and protection of strategic resources. Three lecture hours a week. Credit: Three hours.

GOV 5053. The Presidency and Public Policy. Personnel politics and policy process of the executive branch. Advanced reading, research, and group discussion. Three lecture hours a week. Credit: Three hours.

GOV 5063. Political Women. The participant style, background, perspective and role of female political elites. Current status of constitutional rights of women, women's political issues, and women's pressure groups. Three lecture hours a week. Credit: Three hours.

GOV 5073. Issues in Constitutional Law. Review and examination of selected issues in U.S. constitutional development including judicial politics, governmental structure, judicial review, separation of powers, federalism, due process, equal protection, and individual liberties. Three seminar hours a week. Credit: Three hours.

GOV 5093. Law, Gender, and Sexuality. Evolution of legal rights for women and sexual minorities and theoretical issues raised in concrete legal cases. Examination of debates over equality approaches in law; ways in which law constructs gender and sexuality; and the intersecting roles of gender, sexuality, and race in legal doctrine and theory. Three lecture hours a week. Credit: Three hours.

GOV 5133. Leadership and Women. An examination of the principles and exercise of leadership. Emphasis on women as leaders. Three lecture hours per week. Credit: Three hours.

GOV 5183. Civil War: Culture, History and Law (Cross-listed with HIST 5183). Social, political, and legal context of the War between the States. Analysis of southern secession from the Union, the struggle to restore the Union, and the political and legal struggles of former slaves and their descendants. Three lecture hours a week. Credit: Three hours.

GOV 5193. Rights, Race, and Social Justice. Interpretations of the utility of constitutional rights in movements for social justice, with special attention to struggles for racial equality. Readings in legal studies, social sciences, critical legal studies, and critical race theory that address the relationship of legal rights and change. Three lecture hours a week. Credit: Three hours.

GOV 5303. Problems in the Legislative Process. Legislative decision-making in selected areas of public policy; appraisals of strengths and weaknesses in the American legislative process. Three lecture hours a week. Credit: Three hours.

GOV 5413. Civil Rights: Culture, History and Law (Cross-listed with HIST 5413). Social, political and legal concepts of the Civil Rights Movement; historical and legal issues of Jim Crow laws, Plessy vs. Ferguson, and Brown vs. Board of Education Supreme Court decisions; peaceful protests; forms of social disorder in a quest for equal rights. Three lecture hours a week. Credit: Three hours.

GOV 5423. Native Americans: Culture, History and Law (Cross-listed with HIST 5423). Relations between European settlers and Native American tribes with emphasis on cultural difference, land use, and government-tribe relations. Three lecture hours a week. Credit: Three hours.

GOV 5473. Vietnam War: Culture, History and Law (Cross-listed with HIST 5473). Historical context of American involvement in the Vietnam conflict; political decisions of the Kennedy, Johnson, and Nixon administrations; impact of the war on political protest and social unrest; courts resolution of related controversies; legacy of the war. Three lecture hours a week. Credit: Three hours.

GOV 5483. War, National Security and Civil Liberties (Cross-listed with HIST 5483). Public policy solutions regarding the balance between maintaining national security and protecting civil liberties; history of the nation's attempts to evaluate security policies from colonial times to current events. Three lecture hours a week. Credit: Three hours.

GOV 5513 Seminar in Japanese Politics. An examination of the connections between Japanese culture and contemporary Japanese politics; emphasis on constitutionalism, government institutions, political party dynamics, and international relations. Three lecture hours a week. Credit: Three hours.

GOV 5523. American International Relations. The revolution in American foreign policy in the twentieth century; America's leading role in the world today. Three lecture hours a week. Credit: Three hours.

GOV 5603. Professional Practices. A survey of professional practices engaged in by individuals with advanced degrees in history and political science. Through careful reading and discussion of texts and other materials, students explore issues related to teaching, research and service. Three lecture hours a week. Credit: Three hours.

GOV 5753. Age of Industrialism (Cross-listed with HIST 5753). Historical, cultural, and legal context for transformation of United States to urbanized, industrial power between 1870 and 1920; impact of railroads, the “Robber Barons,” and struggles between organized labor and management.

GOV 5723. Seminar in Political Theory. A study of contemporary debates concerning fundamental political issues and principles of good government; analysis and discussion of ideas on class, race, sex, power, citizenship, justice. Three lecture hours a week. May be repeated for credit when topics vary. Credit: Three hours.

GOV 5833. Seminar in Government. Individual research topics; methodology and bibliography. May be repeated for credit when topics vary. Credit: Three hours.

GOV 5903. Special Topics. Organized course with each section’s title and content varying with specific subject matter and topic offered. Three lecture hours a week. May be repeated for credit when topics vary. Credit: Three hours.

GOV 5911. Individual Study. Independent study of selected topics in government. May be repeated for credit when topics vary. Credit: One hour.

GOV 5913. Individual Study. Independent study of selected topics in government. May be repeated for credit when topics vary. Credit: Three hours.

GOV 5933. Internship. Supervised practical experience, related to the academic and career objectives of the student, in a public or private agency. 15-20 hours of work per week. A paper will be required. Credit: Three hours. May be repeated for a total of six hours.

GOV 5936. Internship. Supervised practical experience, related to the academic and career objectives of the student, in a public or private agency. 30-40 hours of work per week. A paper will be required. Credit: Six hours.

GOV 5951, 5953, 5956. Cooperative Education.

GOV 5973. Professional Paper. The research and writing of a professional paper by each student on a topic selected jointly by the student and the instructor. Credit: Three hours.

GOV 5981. The Professional Portfolio. Development of a professional portfolio by students in the Master of Arts in Teaching program demonstrating the student’s growth in the Learner-Centered Competencies. Pass-fail grade only. May be repeated. Credit: One hour.

GOV 5983. Thesis. Credit: Three hours.

GOV 5993. Thesis. Credit: Three hours.

Department of Mathematics and Computer Science

Chair: Don E. Edwards, Professor

Location: MCL 302

Phone: 940-898-2166

Fax: 940-898-2179

E-Mail: mathcs@twu.edu

Website: www.twu.edu/math-computer-science/

Faculty: Professors M. Demuynck, D. Edwards, E. Grigorieva, W. Mallam, D. Marshall; Associate Professors M. Hamner, T. Hogan, J. Navarra-Madsen; Assistant Professors A. Wheeler, J. Zhang; Senior Lecturers C. Banks, E. Hays.

Graduate Degrees Offered

M.S. in Mathematics

M.S. in Mathematics Teaching

The Department of Mathematics and Computer Science offers graduate studies leading to the following degrees: Master of Science in mathematics, and Master of Science in mathematics teaching.

The Master of Science prepares the student to enter the workforce or to pursue doctoral degree programs in mathematics, statistics, or related fields. The Master of Science program in mathematics provides the student an opportunity to include computer science and statistics in the plan of study.

The Master of Science in mathematics teaching is especially designed for elementary or secondary school teachers of mathematics. Course work emphasizes topics needed for the elementary or secondary school teacher.

Admission Requirements

In addition to the general requirements for admission to the TWU Graduate School, the Department of Mathematics and Computer Science requires the following:

A bachelor's degree with a grade of 'C' or better in the following courses:

1. two semesters of introductory calculus,
2. two additional advanced mathematics courses (to be approved by the department) such as modern geometry, abstract algebra, theory of numbers, symbolic logic, intermediate or advanced calculus, differential equations, numerical analysis, foundations of mathematics, topology, probability, statistics, or linear algebra,
3. two letters of reference.

General Requirements for All Master's Degrees

Master of Science

Thesis Option (Total of 36 hours)

30 hours course work*

6 hours thesis

Non-thesis option (Total of 36 hours)

33 hours course work*

3 hours professional paper

Master of Science in Mathematics Teaching

Total of 36 hours

33 hours course work*

3 hours professional paper

*Course work must be approved by a department advisor and may be selected from departmental courses in mathematics, statistics, and/or computer science. Up to 6 hours may be selected as a minor with prior approval from an advisor from the department. MATH 5513 and MATH 5543 are required of all students.

Special Requirements: A grade of 'A' or 'B' for courses to be counted toward the degree.

Cooperative Education: In order for coursework in Cooperative Education to be counted as degree credit, department approval must be received during the semester in which the course is taken. This approval is in addition to approval to enroll in Cooperative Education coursework. Cooperative Education coursework, as with any coursework, must also be approved by the student's advisory committee in order to be included on the degree plan. Only three hours of Cooperative Education may be counted toward the Master's degree.

Final Examination: A comprehensive written examination upon completion of the course work and an oral examination upon completion of the thesis or professional paper are required for all degrees.

Certification Programs Offered

Information regarding teacher certification in mathematics or computer science is available from the department or the College of Professional Education. The department offers coursework designed to prepare a current teacher for certification as a Master Mathematics Teacher.

Minors Offered to Students from Other Departments

Graduate students in other departments who desire concentrated study in mathematics or computer science as a related field should contact the Department of Mathematics and Computer Science to discuss an appropriate plan of study.

Requirements for the Master of Science in Mathematics for students interested in careers as Applied Statisticians or Statistical Programmers.

Required:

MATH 5573. Statistical Methods I
MATH 5583. Statistical Methods II
MATH 5483. Theory of Probability and Statistics I
MATH 5493. Theory of Probability and Statistics II
CSCI 5663. Statistical Programming
MATH 5513. Matrix Algebra
MATH 5543. Symbolic Logic

At least three from:

MATH 5523. Introduction to Number Theory
MATH 5563. Logic, Sets and Real Numbers
MATH 5833. Computer-Aided Mathematical Modeling
CSCI 5793. Statistical Packages I
CSCI 5893. Statistical Packages II
CSCI 5813. Concepts of Data Warehousing and Data Mining

Total hours required: 36 hours

Students must choose either a thesis or professional paper option. Those choosing the thesis option must include MATH 5983 and MATH 5993. Students selecting the professional paper option must include MATH 5973.

Requirements for the Master of Science in Mathematics Teaching

18-21 Hours:

MATH 5033. Advanced Calculus
MATH 5423. History of Mathematics
MATH 5483. Theory of Probability and Statistics I
MATH 5493. Theory of Probability and Statistics II
MATH 5513. Matrix Algebra (required)
MATH 5523. Introduction to Number Theory
MATH 5543. Symbolic Logic (required)
MATH 5563. Logic, Sets, and Real Numbers
MATH 5573. Statistical Methods I
MATH 5583. Statistical Methods II
MATH 5593. Differential Equations

3 Hours:

MATH 5203. Problem Solving in the Mathematics Classroom

6 Hours:

MATH 5313. Geometry in the Mathematics Classroom
MATH 5323. Euclidean Geometry
MATH 5453. Modern Geometry

3-6 Hours:

MATH 5303. Algebra in the Mathematics Classroom
MATH 5333. Technology in the Mathematics Classroom

MATH 5973. Professional Paper (required)

The M.S. in Mathematics Teaching is a 36 hour degree which includes 3 hours for the professional paper. To accommodate current mathematics teachers, classes will be offered in the evenings during the fall and spring semesters as well as summer. Substitutions may be made with permission from a mathematics advisor.

Courses of Instruction in Mathematics

MATH 5033. Advanced Calculus. Development of the limited processes including continuity, sequences, series, differentiation, and integration. Emphasis on proofs of the fundamental theorems of mathematical analysis, including Rolle's and Lagrange's theorems. Multivariable analysis, constrained optimization. Prerequisites: Permission of advisor. Three lecture hours a week. Credit: Three hours.

MATH 5203. Problem Solving in the Mathematics Classroom. Study of problems with multiple solutions or alternative approaches; strategies for solving

problems; assessment techniques; cooperative grouping methods; critical thinking skills. Prerequisite: Permission of the instructor. Three lecture hours a week. Credit: Three hours.

MATH 5303. Algebra in the Mathematics Classroom. Topics in algebra with an emphasis in problem solving, patterns, relationships, order 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 5313. Geometry in the Mathematics Classroom. Topics in geometry with an emphasis in problem solving, shapes, angles, polygons, circles, Pythagorean Theorem, symmetry, transformations, measurement of area, volume with an emphasis on technology. Three lecture hours a week. Credit: Three hours.

MATH 5323. Euclidean Geometry. Euclidean geometry from a problem solving approach. Topics such as shapes, measurement, perimeter, area, volume, geometric proofs, congruence, triangles, quadrilaterals, similarity, circles, coordinate geometry.

MATH 5333. Technology in the Mathematics Classroom. Technologies and their use in teaching mathematical concepts in grades 4-12: includes graphing calculators, computer software programs and pedagogical technology. Three lecture hours a week. Credit: Three hours.

MATH 5423. History of Mathematics. A survey of the historical development of various mathematical topics, including geometry, algebra and number theory. A study of the work of past mathematicians, including Archimedes, Euclid, Fermat, Newton and mathematicians of the 19th and 20th centuries. Prerequisite: Permission of the instructor. Three lecture hours a week. Credit: Three hours.

MATH 5453. Modern Geometry. Classical Euclidean geometry from an advanced viewpoint. A study of the role of incidence theorems, congruence and similarities and rigid motions. Constructions will be developed. Prerequisites: Permission of instructor. Three lecture hours a week. Credit: Three hours.

MATH 5483. Theory of Probability and Statistics I. Basic principles of probability; combinations and permutations; conditional probability and independence; common discrete and continuous probability distributions, their properties and applications. Three lecture hours a week. Credit: Three hours.

MATH 5493. Theory of Probability and Statistics II. Sampling distribution theory and the Central Limit Theorem; point and interval estimation; hypothesis testing. Prerequisites; MATH 5483 or equivalent. Three lecture hours a week. Credit: Three hours.

MATH 5513. Matrix Algebra. Development of theory of solutions of simultaneous linear equations. Matrices, determinants, matrix inversion, eigenvalue problems, real quadratic forms, Caley-Hamilton Theorem. Matrix Calculus. Applications. Prerequisite: Permission of advisor. Three lecture hours a week. Credit: Three hours.

MATH 5523. Introduction to Number Theory. Understanding and creating proofs related to divisibility, congruences, Diophantine equations, applications. Prerequisite: Permission of advisor. Three lecture hours a week. Credit: Three hours.

MATH 5543. Symbolic Logic. Development of Symbolic Logic as a mathematical system. Starting with axioms and definitions, theorems will be proved. Application of Symbolic Logic to set theory is considered. Prerequisite: Permission of advisor. Three lecture hours a week. Credit: Three hours.

MATH 5563. Logic, Sets and Real Numbers. Applications of logic and set theory to the development of the real number system. Equivalence relations will be used to define the natural numbers and create the reals from them. Prerequisite: MATH 5543. Three lecture hours a week. Credit: Three hours.

MATH 5573. Statistical Methods I. Probability distributions, graphical representations, curve fitting, hypothesis testing, regression and correlation, applications. Prerequisite: Permission of the instructor. Three lecture hours a week. Credit: Three hours.

MATH 5583. Statistical Methods II. Statistical research tools including analysis of variance, chi-square tests, regression (simple and multiple), logistic regression, correlation, non parametric method, and survival analysis. Use of SPSS for the PC. Prerequisite: MATH 5573 or consent of instructor. Three lecture hours a week. Credit: Three hours.

MATH 5593. Differential Equations. The existence and uniqueness for differential equations and systems of differential equations. General theory to specific types of differential equations of a single variable. The basic theory for linear and nonlinear systems. Linearization. Stability. Hamiltonian Systems. Applications with MAPLE. Three lecture hours a week. Credit: Three hours.

MATH 5833. Computer-Aided Mathematical Modeling. Using mathematics to model economic, biological, and other real life processes. Study of deterministic and stochastic models, discrete and continuous models. Implementation of models in software packages and programming languages used in computer-aided mathematical modeling. Prerequisite: Permission of advisor. Three lecture hours a week. Credit: Three hours.

MATH 5903. Special Topics in Mathematics. Variable content. Three lecture hours a week. Credit: Three hours. May be repeated for additional credit.

MATH 5911. Individual Study. Selected topics in advanced mathematics. Credit: One hour. May be repeated for additional credit.

MATH 5913. Individual Study. Selected topics in advanced mathematics. Credit: Three hours. May be repeated for additional credit.

MATH 5953. Cooperative Education. Cooperative work-study arrangement between business, industry, or selected institutions with the University. Nine laboratory hours per week. Credit: Three hours.

MATH 5973. Professional Paper. Credit: Three hours.

MATH 5981. The Professional Portfolio. Development of a professional portfolio by students in the Master of Arts in Teaching program demonstrating the student's growth in the Learner-Centered Competencies. Pass-fail grade only. May be repeated. Credit: One hour.

MATH 5983. Thesis. Credit: Three hours.

MATH 5993. Thesis. Prerequisite: MATH 5983. Credit: Three hours.

Courses of Instruction in Computer Science

CSCI 5613. Computers in Education. An introduction to basic functioning of a computer and basic problem solving using the computer with special attention given to the educational setting. Programming concepts are introduced but programming is not the major focus. May not be counted as degree credit in Department. Three lecture hours a week. Credit: Three hours. Cannot be counted as satisfying mathematics requirements.

CSCI 5643. Internet/Intranet Services: Design and Implementation. Design and implementation of Internet/Intranet network information services including FTP, World Wide Web, and conferencing. Preparation and integration of digital graphics, animation, video, audio, and script-based (Java/Java Script) content. Students will design and build an intranet, install and maintain servers, and prepare multimedia rich content. Prerequisites: CSCI 1403, CSCI 3002, CSCI 5613 or equivalents. Three lecture hours per week. Credit: Three hours.

CSCI 5653. Technology Issues, Achievements and Challenges in Education. Current developments and open research issues for technology in education. Includes current and future trends in multimedia, simulation, communication, networks, AI, intelligent tutoring systems, learning communities, learning technologies, security concerns, communication strategies, ethical and leadership issues. Prerequisites: CSCI 5613, CSCI 5843 or equivalents; completion of other Master Technology Teacher Courses or permission of instructor. Three lecture hours per week. Credit: Three hours.

CSCI 5663. Statistical Programming. Design of statistical programs to manipulate raw data, generate reports and analyze data. Numerous case studies demonstrate appropriate analysis based on the experimental design. Advanced statistical research methods such as ANOVA, MANOVA, repeated measures ANOVA, Multiple Linear and Logistic regression, factor analysis and survival analysis SAS. Prerequisite: six hours undergraduate statistics or three hours graduate level statistics or equivalent. Three lecture hours a week. Credit: Three hours.

CSCI 5753. Computer Graphics. The study of computer generated graphic images. Evaluation of current graphic hardware, software and applications. Investigation and implementation of algorithms used to perform such graphics functions as windowing, clipping, two- and three-dimensional transformations, projections, and hidden line/surface removal. Prerequisite: permission of instructor. Three lecture hours a week. Credit: Three hours.

CSCI 5783. Computer-Assisted Instructional Systems. Introduction of models used in computer-aided instruction. Introduction of linked-lists and network methods for presenting information as related to CAI systems. Prerequisite: Permission of the instructor. Three lecture hours a week. Credit: Three hours.

CSCI 5793. Statistical Computer Packages. Survey of major statistical computation program systems with special emphasis on SPSSX and BMDP. Basic concepts of control language and data set preparation, program execution and interpretation of statistical program output. Prerequisite: Intermediate statistics or permission of the instructor. Three lecture hours a week. Credit: Three hours.

CSCI 5813. Concepts of Data Warehousing and Data Mining. Review of the basic concepts of file systems, databases, data warehousing, data mining and related statistics. Summary of database management, modeling, design, and life cycle is provided as related to data warehousing. Methods for extracting information from a large database by use of data mining techniques are studied. Techniques include: machine learning, decision algorithms, statistical modeling and clustering. Prerequisite: CSCI 3423 and MATH 1713 or equivalent. Three lecture hours a week. Credit: Three hours.

CSCI 5823. Modeling Machine Learning. Introduction to Widrow's LMS Algorithm, K-Map Clustering, and various topics from genetic programming and adaptive algorithms. Prerequisite: Permission of the Instructor. Three lecture hours a week. Credit: Three hours.

CSCI 5893. Statistical Packages II. A further survey of major statistical computation program systems. Concepts of control language and data set preparation, program execution and interpretation of statistical program output will be studied. Prerequisite: CSCI 5793: Three lecture hours a week. Credit: Three hours.

CSCI 5913. Individual Study. Selected topics in advanced computer science. Credit: Three hours. May be repeated for additional credit.

CSCI 5921. Statistical Analysis with Computers. Exposure to available University resources in research design and data analysis, including fully computerized statistical analysis techniques. Appropriate for graduate students who are at least in the proposal/prospectus phase. Prerequisite: Permission of the instructor. May be repeated for additional credit. Credit: One hour.

CSCI 5953. Cooperative Education. Cooperative work-study arrangement between business, industry, or selected institutions with the University. Nine laboratory hours per week. Credit: Three hours.

CSCI 5981. The Professional Portfolio. Development of a professional portfolio by students in the Master of Arts in Teaching program demonstrating the student's growth in the Learner-Centered Competencies. Pass-fail grade only. May be repeated. Credit: One hour.

Department of Psychology and Philosophy

Chair: Daniel C. Miller, Professor

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Faculty: Professors D. Maricle, D. Miller, L. Rubin, S. Stabb; Associate Professors K. DeOrnellas, K. Foster, B. Harding, J. Harris, C. Hart, D. Mollen, S. Scott; Assistant Professors E. Asbury, J. Fitch, W. Johnson, L. Rosen; Clinical Professor M. Gottlieb.

Graduate Degrees Offered

M.A. in Counseling Psychology

Specialist in School Psychology (S.S.P.)

Ph.D. in Counseling Psychology

Ph.D. in School Psychology

The Department of Psychology and Philosophy offers the Master of Arts degree in Counseling Psychology, the Specialist Degree in School Psychology, and the Doctor of Philosophy in both Counseling Psychology and School Psychology.

School Psychology

The School Psychology Program offers an American Psychological Association-accredited Ph.D. degree and a National Association of School Psychologists approved Specialist degree. The School Psychology Program is designed to prepare students in the scientist-practitioner model with emphasis on scientific rigor and problem solving applied to practice in intervention, consultation, assessment, program evaluation, and research. Doctoral students are prepared to assume leadership roles in educational settings, in independent practice, and in supervision. Doctoral graduates qualify for licensure as psychologists and listing in the National Register of Health Service Providers in Psychology following appropriate internship and postdoctoral experience. Both specialist and doctoral graduates are eligible to take the national school psychology examination, which leads to being credentialed as a Nationally Certified School Psychologist, and are eligible for licensure as a Licensed Specialist in School Psychology by the Texas State Board of Examiners of Psychologists. The School Psychology Program Committee (SPPC) is the governing body for School Psychology Graduate Programs. It develops and enforces the policies in this catalog and all program publications.

Counseling Psychology

The Counseling Psychology program offers an American Psychological Association accredited Ph.D. degree and M. A. degree that provides systematic training within a practitioner-scientist model to prepare students for professional mental health practice in a wide range of settings. The programs are grounded in feminist multicultural philosophy and pedagogy. The programs have particular focus on developing clinicians with a strong understanding of individuals within their gendered and socio-cultural contexts. Particular attention is paid to human sexuality and family psychology. Graduates of the programs are expected to be conversant with and competent in the diversity-sensitive applications of individual, systemic/family, and integrative theories.

The program holds strongly to principles that undergird the development of more traditional graduate programs in Counseling Psychology including normal growth and development and an emphasis on an individual's strengths rather than pathology. Emphasis is also placed on the study of the multiple contexts within which human beings grow and develop: the family, the school, the marketplace, and the multiple social settings and groups in the culture. The student is trained to be particularly sensitive to and skilled in human interactions and multicultural issues, as well as growth and change in human systems and the individual in her/his context.

The program expects that students and faculty will be respectful and supportive of all individuals, including, but not limited to clients, staff, peers, and others who are different from themselves in terms of age, gender, gender identity and expression, race, ethnicity, culture, national origin, religion, faith and no faith, spirituality, sexual orientation, disability, language, and socioeconomic status. It is expected that students and faculty will work to create a climate of safety and trust for all concerned.

This particular program's philosophy, curriculum, faculty, and students attempt to create an atmosphere that is supportive, open, and flexible. The goal is to create a program that challenges without creating competition, promotes professionalism with a minimum of power hierarchy, incorporates and encourages student participation at high levels, and encompasses important emerging trends in the areas of gender, multiculturalism, human sexuality, and family psychology while remaining solidly rooted in the foundations of Counseling Psychology. The program faculty make a concerted effort to attend to students within a contextual framework, recognizing interpersonal, familial, institutional, and socio-cultural realities. Faculty strive to create an inclusive rather than exclusive environment, in which egalitarianism, self-direction, leadership, and respect for individual differences are promoted. Program students and faculty alike attempt to maintain open communication and clarity of expectations to promote mutual understanding and respect.

Applicants should be aware that, as is typical of graduate training in professional psychology, part of one's development as a psychologist entails personal growth and disclosure in addition to academic learning. As such, students may be

expected to share appropriate personal material in various classes and practicum situations. APA guidelines require that students be informed of this requirement.

In summary, the broad programmatic philosophy and training model has four parts: (1) to train competent, ethical professional psychologists, (2) to train practitioner-scientists whose practice is informed by science, (3) to train Counseling Psychologists with specific expertise in multiculturalism and gender/women's issues, and (4) to balance an underlying structure that supports excellence in professional training with respect for individual differences and flexibility to accommodate varying student needs in a student body that tends to be mature and experienced.

Doctoral graduates qualify for Licensure as Psychologists and listing in the National Register of Health Service Providers in Psychology following appropriate internship and postdoctoral experience. Master's graduates may qualify for licensure as Psychological Associates (LPA), Professional Counselors (LPC), and/or Marriage and Family Therapists (LMFT) depending upon specific coursework choices and practicum experiences.

Admission Requirements

Please see the admission section at the front of this catalog. All applicants must complete the online application form, available at www.applytexas.org. In addition to these general requirements, the Department of Psychology and Philosophy requires the following.

Master of Arts in Counseling Psychology / Specialist in School Psychology

1. A completed online application form, available at www.applytexas.org.
2. An undergraduate major in psychology or a minor of at least 18 semester hours in psychology, including the following courses: introductory psychology, life-span developmental psychology, statistics, experimental psychology, psychology of learning, and 3 elective hours in psychology. **Specialist applicants** are required to take a course in biological bases of behavior instead of an elective.
3. Preferred minimum Graduate Record Examination scores of 500 verbal (153, Revised GRE), 500 quantitative (149, Revised GRE), and 4.0 analytical.
4. Counseling Psychology applicants: Submit responses to 5 essay questions which can be found at www.twu.edu/psychology-philosophy/counseling-psych-masters-apply.asp. Specialist applicants: Submit a 500-word statement describing goals in psychology.
5. Submission of undergraduate transcripts showing a GPA of 3.5 or better on all courses in psychology and a 3.0 overall average for the last 60 hours of undergraduate work. Official transcripts from each college attended are required.
6. Submission of three letters of recommendation.
7. Vita

The application, official GRE scores, and official transcripts from ALL colleges or universities must be submitted to the Office of Student Records Processing.

Items four, five, six, and seven above are to be submitted together in ONE envelope with COPIES of your application, GRE scores, and transcripts to the

program Admissions Coordinator of the respective program (Counseling Psychology or School Psychology), Department of Psychology and Philosophy, P.O. Box 425470, Denton, TX 76204.

The deadline for applications for the master's degree Counseling Psychology program is February 1 for summer and/or fall admission; the deadline for the School Psychology Specialist program is February 1.

Doctor of Philosophy in School Psychology or Counseling Psychology

1. The applicant will submit Graduate Record Examination scores. Preferred scores are 500 verbal (153, Revised GRE), 500 quantitative (149, Revised GRE), and 4.0 analytical writing.
2. The applicant will present official transcripts as evidence of a 3.5 GPA on a 4.0 scale for both graduate and undergraduate courses in psychology. A student entering the program with a bachelor's degree is required to have a minimum overall GPA of 'B' (3.0 on a 4.0 scale for the last 60 hours of undergraduate work, and a 3.5 GPA in undergraduate psychology courses.). A student entering the program with a master's degree is required to have a minimum overall GPA of 3.5 on a 4.0 scale for graduate work in psychology.
3. The applicant will submit three letters of recommendation.
4. The applicant will present evidence of at least 18 semester hours in undergraduate psychology courses including the following courses: introductory psychology, life-span developmental psychology, statistics, experimental psychology, psychology of learning, and 3 elective hours in psychology. A course in biological bases of behavior is required instead of an elective for School Psychology doctoral applicants.
5. Applicants to the Doctoral Program in Counseling Psychology must complete a program-specific application requiring five brief essays. The application is available at twu.edu/psychology-philosophy/counseling-phd-apply.asp.
6. Applicants to the School Psychology Doctoral Program will submit a 500-word autobiographical essay on choosing School Psychology as a career.
7. Applicants will submit a vita with special emphasis on training, work experiences, and research relevant to the program and discipline.

The online application (available at www.applytexas.org), official GRE scores, and official transcripts from ALL colleges or universities must be submitted to the Office of Student Records Processing.

Items three, four, five, six, and seven above are to be submitted together in ONE envelope with COPIES of your application, GRE scores, and transcripts to the program Admissions Coordinator of the respective program (Counseling Psychology or School Psychology), Department of Psychology and Philosophy, P.O. Box 425470, Denton, TX 76204.

If a student is to be considered for the following Fall semester, December 15 is the deadline for receipt of application materials for the Counseling Psychology Doctoral program. February 1 is the deadline for receipt of application materials for the School Psychology Doctoral Program. Admission to all doctoral programs

is usually provisional with advancement to unconditional admission based on the successful completion of GPA requirements for the first 21 semester hours completed in the program.

General Requirements for the Master's Degree in Counseling Psychology

Total Hours Required: A minimum of 61 hours including 6 hours for thesis or 3 hours for the Capstone Experience. The number of hours required depends on the particular degree program. Consult the director of the program for details.

Practica: Counseling Psychology students will spend a minimum of four semesters in practicum placements. The student will consult with the Practicum Coordinator to arrange for appropriate placement.

Special Requirements: Students are required to maintain a grade point average of 3.5 or better on a 4.0 scale in all courses applied to the degree. If a grade of 'C' or less is earned in a course, the student will be required to complete a formal remediation process. If a second grade of 'C' or less is earned (in at least six credit hours total), the student will be dismissed from the program.

Comprehensive Examinations: A written comprehensive exam will be required for all students who do not complete a Thesis.

General Requirements for the Specialist Degree in School Psychology

Total Hours Required: 60-68 hours.

Internship: School Psychology students are required to complete at least one academic year of supervised internship experience consisting of a minimum of 1200 clock hours, at least 600 hours of which must be in a school setting. The student will consult with the Internship Coordinator in order to arrange for appropriate placement. The internship cannot begin until the student has completed all coursework and passed the Clinical Skills Review.

Special Requirements: Students are required to maintain a grade point average of 3.0 or better on a 4.0 scale in all courses applied to the degree. If a grade of 'C' or less is earned in a course, the student will be required to meet with his/her program committee. The program committee and the student shall determine appropriate steps for remediation. If a second grade of 'C' or less is earned, the student will again be required to meet with his/her program committee. If a third 'C' or less is earned, the student will be dismissed from the program.

Comprehensive Examination: The capstone evaluation for Specialist students is the Clinical Skills Review. Students submit a comprehensive case and an intervention report. At the Clinical Skills Forum, students orally present their case and intervention.

General Requirements for the Doctoral Degree in Counseling Psychology

Total Hours Required: The minimum number of semester hours required for the program depends on the individual degree program. The applicant should contact the director of the program for details.

Practica: Counseling Psychology students will spend a minimum of four semesters in practicum placements. The student will consult with the Practicum Coordinator to arrange for appropriate placement.

Internship: A full-year, full-time APA-accredited or APPIC-member internship is required for the doctoral program in Counseling Psychology. The student will consult with the Training Director to arrange for appropriate placement. Doctoral students in Counseling Psychology are expected to be willing to leave the immediate geographical area for internship. The internship can not begin until the student has been admitted to candidacy, which requires the successful completion of all required coursework and comprehensive exams. The dissertation proposal must also be completed prior to internship application.

Emphasis Area: In general, the emphasis area for Counseling Psychology doctoral students will be Special Populations. Exceptions are possible through negotiation with the Counseling Psychology Core Faculty.

Research Tools: The four required research tools are:

- PSY 5353 Research Techniques
- PSY 5304 Advanced Psychological Statistics I
- PSY 6204 Advanced Psychological Statistics II
- PSY 6363 Research in Counseling and Family Psychology

Special Requirements: A student is required to maintain a grade point average of 3.5 or better on a scale of 4.0 in all courses applied to the doctoral degree. If a grade of 'C' or less is earned in a course, the student will be required to complete a formal remediation process. If a second grade of 'C' or less is earned (in at least six credit hours total), the student will be dismissed from the program.

Thesis Equivalency: Students who have not written an empirical master's thesis during a master's program will be required to complete an original research project with an individual faculty member during the course of doctoral training.

Residency Requirement: Full-time enrollment is required of all doctoral students in Counseling Psychology until they approach candidacy (generally the first three years). Requests for exceptions to this requirement must be approved by the Counseling Psychology Core Faculty. Two consecutive semesters of enrollment of less than nine hours without official leave or permission (excluding summer enrollment) will result in removal to inactive status. In order to re-enter the program from inactive status, the student must have approval of the Core Faculty in Counseling Psychology. All coursework, internship, and dissertation must be completed within seven years, excluding any official leaves-of-absence.

Professionalism Benchmark: The Professionalism Benchmark occurs in the Fall semester of the student's second year. The purpose of the Benchmark is to assess students for fundamental competencies that are needed to progress past the second year in the program, and in particular to demonstrate readiness for Practicum. Competencies to be assessed include aspects of Professionalism, Reflective Practice/Self-Assessment/Self-Care, Relationships, Individual and Cultural Diversity, Ethical-Legal Standards and Policy, and Research-Evaluation. These competencies are based on the APA Joint Council of Chairs of Training Council's related document: <http://www.apa.org/education/grad/competency-benchmarks.pdf>.*

Overview: The Professionalism Benchmark will consist of two parts: a Narrative and an Oral Evaluation. Students will have one chance to remediate problems with any part(s) of the Benchmark or be dismissed from the program, as these Competencies are considered absolutely foundational to any additional progress in the program and must be assessed prior to the timeline for first practicum placement. The Professionalism Benchmark process is administered each year in mid-October. See the Counseling Psychology Doctoral Student Handbook for a detailed description of the Professionalism Benchmark process: <http://www.twu.edu/downloads/psychology-philosophy/counseling-phd-handbook.pdf>. (NOTE: This handbook is updated regularly, so the web address may change over time.)

Comprehensive Examinations: Comprehensive Exams consist of a paper integrating professional identity, theory, and a case conceptualization, followed by a presentation of that paper and a recorded demonstration of therapy skills with an actual client or clients. The content, format, administration, and evaluation of the Comprehensive Exam will be the responsibility of the Counseling Psychology Core Faculty. Students who fail any portion of the comprehensive exam process will be provided with remediation plans and subsequent measures for re-evaluation of student progress. A student may be dismissed from the program if remediation is not completed in a satisfactory manner. Upon successful completion of all coursework and comprehensive competency evaluations, the doctoral student is recommended for candidacy for the Ph.D. degree.

Dissertation and Final Examination: All students are required to complete an empirical dissertation. An oral defense of the dissertation is required. The defense may be repeated once.

*Copyright © 2009 by the American Psychological Association. Adapted with permission. The official citation that should be used in referencing this material is Fouad, N.A., Gurs, C.L., Hatcher, R.L., Kalsow, N.J. Hutchings, P.S., Madson, M., Collins, F.L., Jr. & Crossman, R.E. (2009). Competency Benchmarks: A Developmental Model for Understanding and Measuring Competence in Professional Psychology. Training and Education in Professional Psychology. Vol. 3(4, Suppl), Nov 2009, S5-S26. doi: 10.1037/a0015832. The use of APA information does not imply endorsement by the APA.

General Requirements for the School Psychology Doctoral Degree

Total Hours Required: The minimum number of semester hours required for the doctoral program depends upon the individual degree program. The applicant should contact the director of the appropriate doctoral program for details. In general, students entering with a bachelor's degree will complete 121 semester credit hours.

Practica: School Psychology doctoral students spend a minimum of four semesters in practicum placements. Students will consult with the Practicum Coordinator to arrange for appropriate placements.

Internships: School Psychology doctoral students must complete a full-time, 1500-2000 hour internship over a period of one year or 10 consecutive months. At least 600 hours must be in a school setting. A full year, full-time APA or APPIC accredited internship is recommended. The student will consult with the Internship Coordinator in order to arrange for appropriate placement. The internship cannot begin until the student has been admitted to candidacy, which requires the successful completion of all required coursework and comprehensive exams.

Research Tools: Required research tools include the following:

- PSY 5353. Research Design
- PSY 5304. Advanced Psychological Statistics I
- PSY 6203. Advanced Psychological Statistics II
- PSY 6931. Research Team (2 credits)

Special Requirements: A student is required to maintain a grade point average of 3.5 or better on a 4.0 scale in courses applied to the doctoral degree. If a grade of 'C' or less is earned in a course, the student will be required to meet with her/his program committee. The program committee and the student shall determine appropriate steps for remediation. If a second grade of 'C' or less is earned (in at least six credit hours total), the student will be dismissed from the program.

Residence Requirement: A one year full-time pre-doctoral internship is required to meet the requirements for graduation and licensure. All coursework, internship, and dissertation must be completed within ten years, excluding any official leaves-of-absence.

Comprehensive Examinations: Comprehensive evaluation includes the following: a written integrative essay that is orally defended over core psychological foundations; a theoretical philosophy paper; a clinical skills oral presentation and defense of both the theoretical philosophy paper; an actual case study; and an intervention study. The content, format, administration, and evaluation of the comprehensive exam will be the responsibility of the core faculty. Students who fail any portion of the comprehensive exam process will be provided with remediation plans and subsequent measures for reevaluation of student progress. A student may be dismissed from a program if remediation is not completed in a satisfactory manner.

Upon successful completion of all coursework and the comprehensive competency evaluation, the doctoral student is recommended for candidacy for the Ph.D. degree.

Dissertation and Final Examination: All students must complete an empirical dissertation. An oral defense of the dissertation is required. The defense may be repeated once.

Minors Offered to Students from Other Departments

A doctoral minor requiring 18 semester hours is offered in psychology. Specific course requirements for the minor can be obtained by contacting the director of either doctoral training program.

Courses of Instruction in Psychology

PSY 5163. Psychology of Women. Examination of developmental characteristics of women, myths and stereotypes, sex roles, sexuality, life styles, values, achievement motivation, power, mental health, and mental disorders in women. Three lecture hours a week. Credit: Three hours.

PSY 5304. Advanced Psychological Statistics I. Brief review of measures of central tendency and variability. Advanced survey methods of correlational techniques, including multiple correlation. Advanced analyses of variance and non-parametric designs. Prerequisite or corequisite: PSY 5353. Four lecture hours a week. Credit: Four hours.

PSY 5313. Psychological Tests and Measurements. Overview of psychometrics, including test construction, reliability, and validity. Three lecture hours a week. Credit: Three hours.

PSY 5353. Research Design. Types of research methods; techniques and procedure of educational and psychological empirical research; research design; research writing; review of journal articles; general statistics for reading professional journals. Prerequisite: Permission of instructor. Three lecture hours a week. Credit: Three hours.

PSY 5423. Cognitive Assessment. Intensive introduction to the most widely used, individually administered intelligence tests. Prerequisite: A course in psychological appraisal or permission of the instructor. Corequisite: PSY 6931. Three lecture hours a week. Credit: Three hours.

PSY 5463. Academic Assessment and Curriculum Interventions. Administration and interpretation of academic achievement measures with children. Individual and group achievement tests, criterion-referenced, and curriculum-based assessments will be reviewed. Prerequisite: PSY 5423. Corequisite: PSY 6931. Three lecture hours a week. Credit: Three hours.

PSY 5473. Social-Emotional Assessment in Children. Administration and interpretation of personality assessment procedures with children, including integration with other psychoeducational assessment information. Prerequisite: PSY 5423. Three lecture hours a week. Corequisite: PSY 6931. Credit: Three hours.

PSY 5501. Professional Issues in Counseling and Family Psychology. Critical review of the program and discipline of counseling and family psychology. Issues germane to the professional practice of counseling/family psychology will be discussed. One lecture hour a week. Credit: One hour.

PSY 5513. Advanced Psychopathology. Extensive study of the fundamental principles of understanding mental illness from a systemic point of view; study of incident, cause, types of therapy, and prognostication for each case. Prerequisites: Graduate standing; PSY 3513. Three lecture hours a week. Credit: Three hours.

PSY 5523. Clinical Therapeutic Group Processes. Intensive group experience in which students study therapeutic group development as they function as participant, observer, and recorder of the emerging group process. Extensive reading is required. Theories of group development and group dynamics are examined as they relate to learning, perception, conflict resolution, problem solving, and psychotherapy. Prerequisites: Graduate standing and permission of instructor are required. Preregistration with instructor is required. Three lecture hours a week. Credit: Three hours.

PSY 5554. Theory and Practice of Counseling and Psychotherapy. Principles, procedures, techniques, and goals of effective counseling/therapy from a variety of theoretical viewpoints. Basic theory preparation for counselors/therapists in training. Instructional supervised experience in clinical techniques basic to individual psychotherapy. Three lecture and two laboratory hours a week. Credit: Four hours.

PSY 5663. Theory and Practice of Couples Psychology. Literature regarding theories, principles, and practices of applied psychology when working with couples and romantic relationships. Empirically-supported treatments for couples and concurrent skill development for these interventions. Feminist and multicultural perspectives on couples work. Introduction to sex therapy. Prerequisite: PSY 5554. Three lecture hours a week. Credit: Three hours.

PSY 5674. Theory and Practice of Family Psychology. Introduction to the literature regarding theories, principles, and practices of family psychology. Intensive study of the theoretical bases for assessment and intervention. Demonstration and practice of family psychology skills. Three lecture and two laboratory hours a week. Credit: Four hours.

PSY 5693. Psychology of Human Sexuality. Exploration of concepts related to human sexuality with emphases on psychological and cultural factors. Significant focus on self-as-counselor as it impacts the therapeutic process. Three lecture hours a week. Credit: Three hours.

PSY 5803. Introduction to School Psychology. The school psychologist's roles within the total educational process of the child with emphasis upon development. Three lecture hours a week. Corequisite: PSY 6931. Credit: Three hours.

PSY 5853. Seminar in School Psychology. Capstone course to synthesize key concepts in school psychology curriculum; includes crisis intervention, working collaboratively with families, school-based prevention activities, and computer applications. Prerequisite: School Psychology Graduate Students Only. Three lecture

hours a week. Credit: Three hours.

PSY 5911. Individual Study. Individual instruction in a class that is not being taught during a current semester, and that is needed for graduation or to fulfill degree requirements of a graduate student. Credit: One hour.

PSY 5913. Individual Study. Denotes a course not offered as organized course. An in-depth review of a specific problem area jointly selected by student and instructor. Prerequisite: Permission of instructor. Credit: Three hours.

PSY 5923. Supervised Practicum. Practicum experience in clinical setting; supervised and taped client contact with critical discussion. Prerequisite: Permission of instructor. Credit: Three hours.

PSY 5963. The Scientist Practitioner: Capstone Proficiencies. A capstone experience in writing and applying research findings to inform clinical practice. Writing applied literature reviews, program evaluation, and grant writing. Comprehensive exam over the M.A. program. Prerequisites: Enrolled in last or next to last semester of "coursework only" degree plan. Three lecture hours a week. Credit: Three hours.

PSY 5973. Professional Paper. Credit: Three hours.

PSY 5983. Thesis. Credit: Three hours.

PSY 5993. Thesis. Prerequisite: PSY 5983. Credit: Three hours.

PSY 6103. Cognition and Emotion. The interaction between emotion and major processes involved in human cognition, attention, memory, language, problem solving, and decision making. Prerequisite: Undergraduate course in learning or permission of instructor. Three lecture hours a week. Credit: Three hours.

PSY 6133. Advanced Behavioral Neuroscience. Neuroanatomy, neuron physiology, psychopharmacology, neuroendocrinology, physiological bases of motivation, emotion, learning, sensation, sleep, and attention. Three lecture hours a week. Credit: Three hours.

PSY 6143. Neurodevelopmental and Genetic Disorders in Children. Focus on low and high incidence neurodevelopmental and genetic disorders in children. Emphasis placed on identifying characteristics, differential diagnostic techniques, and empirically based interventions associated with these disorders. Prerequisite: Doctoral standing and/or permission of instructor. Three lecture hours a week. Credit: Three hours.

PSY 6204. Advanced Psychological Statistics II. Multivariate statistical procedures in analysis of variance and regression; covariance analysis; and latent variable analysis. Prerequisite: PSY 5304. Four lecture hours a week. Credit: Four hours.

PSY 6233. Preschool and Low-Incidence Assessment. Administration and interpretation of preschool and low-incidence handicapping assessment procedures. Prerequisite: PSY 5423 or equivalent. Corequisite: PSY 6931. Credit: Three hours.

PSY 6363. Research in Counseling and Family Psychology. An overview of counseling and family psychology and research through detailed analysis of major research articles. The course covers instrumentation tools and techniques, critical evaluations of key investigations in the field, and challenges of the "new

epistemologies” for psychological research. Three lecture hours a week. Credit: Three hours.

PSY 6383. Cross Cultural Psychology. Examination of paradigms of cross cultural psychology (the fourth force in counseling and psychotherapy), cultural identity development, examination of one’s own cultural heritage and its impact in the therapeutic relationship; competencies and standards, culture specific strategies in cross cultural psychotherapy and therapeutic implications of the paradigms. Three lecture hours a week. Credit: Three hours.

PSY 6393. Psychology of Violence, Trauma, and Abuse. Focus on abuse and victimization across the lifespan, ranging from infancy to late adulthood. Trauma-based disorders, psychological dynamics, and the recovery process will be explored. Prerequisites: Doctoral standing and/or permission of the instructor. Three lecture hours a week. Credit: Three hours.

PSY 6423. Psychopathology and Exceptionalities in Childhood and Adolescence. Comprehensive overview of etiology, identification (diagnostic nomenclature, DSM IV), and intervention in children and adolescents with exceptionalities and emotional disorders. Three lecture hours. Credit: Three hours.

PSY 6443. Personality Assessment for Adults. Administration and interpretation of most widely used psychodiagnostic assessment procedures, with major emphasis on objective (i.e., MMPI) and projective (i.e., TAT) measures of personality. Prerequisites: Doctoral standing, PSY 5413 or PSY 5313, and PSY 5423. Three lecture hours a week. Credit: Three hours.

PSY 6523. Neuropsychological Assessment Techniques I. Introduction to the administration and interpretation of current neuropsychological assessment instruments for all ages with an emphasis on childhood and adolescence. Corequisite: PSY 6931. Three lecture hours a week. Credit: Three hours.

PSY 6533. Neuropsychological Assessment Techniques II. Advanced administration and interpretation of current neuropsychological assessment instruments for all ages with an emphasis on childhood and adolescence. Prerequisite: Permission of instructor. Corequisite: PSY 6931. Three lecture hours a week. Credit: Three hours.

PSY 6553. Rorschach Administration and Interpretation. Administration, scoring and interpretation of the Rorschach, with emphasis on conceptual and clinical issues in personality assessment. Prerequisites: Doctoral standing, PSY 6443, PSY 5423, and PSY 5413 or PSY 5313. Three lecture hours a week. Credit: Three hours.

PSY 6583. Neuropsychopharmacology. Introduction to practical and theoretical understanding of the effects of drugs upon behavior. Emphasis on major antipsychotic, antianxiety, antidepressant drugs, their clinical use, and their side effects. Three lecture hours a week. Credit: Three hours.

PSY 6613. Advanced Developmental Psychology. An in-depth analysis of theories regarding the psychological development of children, adolescents, and adults. The course will include an overview of the empirical and conceptual approaches to the study of social, emotional, cognitive, and physical development of

humans from conception through death. Three lecture hours a week. Credit: Three hours.

PSY 6633. Philosophical and Historical Foundations of Psychology. Major philosophical theories of the mind and historical foundations of psychology. Three lecture hours a week. Credit: Three hours.

PSY 6673. Therapeutic Interventions for Children and Adolescents. Theoretical background and applied psychotherapeutic techniques for children and adolescents. Content includes psychotherapeutic techniques commonly used in schools and clinical settings, such as play therapy, brief therapy, reality therapy, behavior therapy, and group therapy. Content includes psychotherapies utilized in crisis intervention. Therapeutic techniques are presented in the context of specific childhood disorders. Supervised practice is required. Three lecture hours a week. Corequisite: PSY 6931. Credit: Three hours.

PSY 6683. Professional Issues in Psychology, Counseling Psychology and Family Psychology. Study of the historical development and present status of psychology and the history, current status and definition of counseling psychology as a specialty; study of the emergence of family psychology as a field of study and the impact of that emergence on theory development, research, and professional practice in counseling psychology. Doctoral standing in psychology required for enrollment. Three lecture hours a week. Credit: Three hours.

PSY 6693. Advanced Therapeutic Interventions for Children and Adolescents. Group therapy intervention strategies for psychological disorders of childhood and adolescence in school settings. Group selection, protocols, and assessment for group therapy. Supervised practice required. Prerequisite: PSY 6673. Corequisite: PSY 6931. Three lecture hours a week. Credit: Three hours.

PSY 6703. Direct Behavioral Interventions. Assessment and management techniques emphasizing behavioral intervention strategies for groups and individuals across educational and clinical settings. Cognitive, behavioral, and systemic assessments and interventions in schools will be emphasized. Three lecture hours a week. Corequisite: PSY 6931. Credit: Three hours.

PSY 6713. Cognitive and Behavior Therapies. Study of theoretical foundations, techniques, and empirical support for both cognitive and behavior therapies. Three lecture hours a week. Credit: Three hours.

PSY 6774. Foundations of Social Psychology and Personality. Classic and contemporary theories, research, and application in social psychology with special emphasis on personality theory and development in social context. Major areas covered include person perception, attribution, social cognition attitudes, prejudice, aggression, altruism, group dynamics, and applied topics. Four lecture hours a week. Credit: Four hours.

PSY 6803. Seminar in Vocational Psychology. Theories of vocational psychology, vocational assessment, integration of vocational assessment and general psychological assessment, computer and internet applications, applications of vocational research, cross-cultural and gender issues, integration of work with

family and leisure, dual career family issues. Three lecture hours a week. Credit: Three hours.

PSY 6833. Ethics in Psychology. A critical discussion and evaluation of the ethical alternatives with respect to decision-making and action in the area of Research and Professional Practice. Methodology will include contemporary cases involving personal, social and institutional issues, as well as theoretical and empirical foundations in the classical systems of ethics. Three lecture hours a week. Credit: Three hours.

PSY 6853. Supervision and Consultation Psychology. Designed to develop knowledge and strategic skills required in the practices of supervision of services and professional consultation in psychology. Both didactic content and field-based pre-practicum components are included. Three lecture hours a week. Corequisite for School Psychology students: PSY 6931. Credit: Three hours.

PSY 6863. Qualitative Research Methods & Program Evaluation. Study of philosophical, conceptual, and practical bases of qualitative methodologies, with a particular focus on program evaluation. Emphasis on qualitative inquiry, data collection and analysis, and integration of qualitative/quantitative data. Three lecture hours per week. Credit: Three hours.

PSY 6873. Advanced Consultation. Advanced skills in indirect-interventions which include the family, community, and school. In-depth exploration and practice in instructional team participation, and behavioral and emotional consultation with parents and school personnel. Emphasis on connecting families and schools using behavioral and systems perspectives. Prerequisite: PSY 6853. Corequisite: PSY 6931. Three lecture hours a week. Credit: Three hours.

PSY 6903. Special Topics. Denotes organized course in psychology not regularly offered. Prerequisite: Permission of the instructor. Credit: Three hours.

PSY 6911. Individual Study. Individual instruction in a class that is not being taught during a current semester, and that is needed for graduation or to fulfill degree requirements of a doctoral student. Credit: One hour.

PSY 6913. Individual Study. Denotes course not offered as organized course. An in-depth review of a specific problem area jointly selected by student and instructor. Prerequisite: Permission of instructor. Credit: Three hours.

PSY 6921. Research Consultation in Psychology. Research consultation for doctoral students in the design stages of a dissertation proposal and exposure to computer analysis and interpretation of data. May be repeated for additional credit. Credit: One hour.

PSY 6923. Supervised Practicum. Practicum experience in clinical setting; supervised and taped client contact with critical discussion. Three laboratory hours a week. Credit: Three hours.

PSY 6931. Practicum in Applied Psychology. Practicum will provide limited practical experiences as corequisite for PSY 5423, PSY 5463, PSY 5473, PSY 5803, PSY 6233, PSY 6523, PSY 6533, PSY 6673, PSY 6693, PSY 6703, PSY 6853, and PSY 6873. Prerequisite: Permission of instructor. One laboratory hour

per week. Credit: One hour.

PSY 6933. Internship in Psychology. Supervised internship experience in clinical and/or school settings, supervision and critical discussion. One-year, full-time, placement necessary to meet state licensing requirements. Prerequisite: Consent of instructor. Credit: Three hours.

PSY 6961. Research Team. Participation in research activities as negotiated with a supervising faculty member. The student is expected to pursue areas of interest independently or in conjunction with the faculty member's interests. One laboratory hour per week. Credit: One hour.

PSY 6981. College Teaching. Covers important pedagogical aspects of college teaching: effective lecture preparation and delivery; stimulating class discussions; writing good exams; using group projects and cooperative learning strategies; classroom management techniques; cultural diversity issues and learning styles. Prerequisite: GTA or anyone in need of pedagogy requirements. May be repeated for additional credit. Two laboratory hours a week. Credit: One hour.

PSY 6991. Supervised Field Work. Field experience in applied settings; faculty supervision of students employed in the practice of psychology in the community. Prerequisite: Permission of instructor. Two laboratory hours a week. Credit: One hour.

PSY 6983. Dissertation. Credit: Three hours.

PSY 6993. Dissertation. Prerequisite: PSY 6983. Credit: Three hours.

Course of Instruction in Philosophy

PHIL 5913. Individual Study. Denotes course not offered as organized course. An in-depth review of a specific problem area jointly selected by student and instructor. Prerequisite: Permission of instructor. Credit: Three hours.

Department of Sociology and Social Work

Chair: James L. Williams, Professor

Location: CFO 305

Phone: 940-898-2052

Fax: 940-898-2067

E-mail: jwilliams2@mail.twu.edu

Website: www.twu.edu/sociology-social-work/

Faculty: Professors M. Sadri, J.L. Williams, P. Yang; Associate Professors L. Marshall, A. Tilton, L. Zottarelli; Assistant Professor J. Gullion.

Graduate Degrees Offered

M.A. in Sociology

Ph.D. in Sociology

The doctoral degree is granted through the Federation of North Texas Area Universities.

The Doctor of Philosophy degree in Sociology is offered through a cooperative program of the Federation of North Texas Area Universities that includes Texas Woman's University, the University of North Texas, and Texas A&M – Commerce. The Ph.D. in Sociology is granted by Texas Woman's University and the University of North Texas. Students apply for acceptance into the program through one of the participating universities.

Together the two universities offer graduate training in various aspects of sociology along with opportunities in the area of sociological practice. All doctoral students are required to study core social theory and social research and must concentrate further in two specialty areas.

The objective of the Federation sociology program is to produce intellectually well-rounded graduates capable of (1) analyzing human social groups and relationships between groups, (2) evaluating the influence of social factors on social situations, and (3) functioning effectively in either an academic milieu or in a sociological practice setting.

Graduate students enrolled at either TWU or UNT take courses at both universities, thus benefiting from the combined faculties and facilities of each school. Students graduating from the Federation program will be granted the Ph.D. from the university through which they entered the program.

Graduate Certificates Offered

Post-baccalaureate Certificate in Diversity

Post-baccalaureate Certificate in Social Science Research Methods

Post-Baccalaureate Certificate in Diversity

The Department of Sociology and Social Work offers a graduate Certificate in Diversity that prepares students for today's culturally diverse society. Courses required for the Diversity Certificate focus on the intersection of race/ethnicity, social class, and gender. The graduate certificate is open to students enrolled in any graduate degree program at Texas Woman's University as well as to qualified individuals seeking only the Diversity Certificate.

Admission Requirements

Students already admitted to a graduate program at TWU should consult with the Chair or Graduate Advisor of their program to determine whether the course work taken for the Diversity Certificate will apply toward their degrees. Students seeking admission to a masters or doctoral program, in addition to certification, must meet the entrance requirements of their degree program.

Students entering TWU only for the Certificate in Diversity must meet the master's-level entrance requirements of the Graduate School. For certificate-only students, the Department of Sociology and Social Work requires a Statement of Purpose (500-600 words) describing the reason the Diversity Certificate is sought and its importance in relation to career goals.

Course Requirements

The Diversity Certificate requires 18 graduate hours of course work to be completed with an average grade of 'B' or better. Diversity is defined as inclusive of racial/ethnic diversity as well as age, religion, sexual orientation, and disability. Some courses will focus on diversity within the United States and others are global with a cross-cultural focus. The following three courses are required for the Diversity Certificate:

SOCI 5553 or 6503. Social Stratification

SOCI 5643. Race and Ethnic Groups in the United States

SOCI/WS 5463. Women of Color or equivalent

With approval of the student's Advisory Committee and the Chair of the Department of Sociology and Social Work, the remaining 12 hours may be selected from topics regularly offered under the Seminars on Social Organization and Disorganization (SOCI 6503), Life Cycle (SOCI 6303), and the Metropolitan Community (SOCI 6403), or from outside the Department.

Post-Baccalaureate Certificate in Social Science Research Methods

The Department of Sociology and Social Work offers a Certificate in Social Science Research Methods. This certificate will prepare students to work in applied and institutional research settings. The courses required for the Social Science Research Methods Certificate focus on the understanding and application of social science research methods commonly used in the public and private sectors. The graduate certificate is open to students enrolled in any graduate program at Texas Woman's University as well as to qualified individuals seeking only the Social Science Research Methods Certificate.

Admissions Requirements

Students already admitted to a graduate program at TWU should consult with the Chair or Graduate Advisor of their program to determine whether the coursework taken for the Social Science Research Methods Certificate will apply towards their degrees. Students seeking admission to a masters or doctoral program, in addition to the certification, must meet the entrance requirements of their degree program.

Students entering TWU only for the Social Science Research Methods Certificate must meet the master's-level entrance requirements for the Graduate School. For certificate-only students, the Department of Sociology and Social Work requires that students have completed three hours of undergraduate statistics for the social sciences and provide a Statement of Purpose (500-600 words) describing the reason the Social Science Research Methods Certificate is sought and its importance in relation to career goals. It is understood that the student's major department will detail their specific expectations with regard to the statistical background of students who pursue this certificate.

Coursework Requirements

The Social Science Research Methods Certificate requires 18 hours of coursework to be completed with an average of 'B' or better. The following three courses are required of the Social Science Research Methods Certificate:

- SOCI 5363. Survey Research
- SOCI 5773. Qualitative Research Methods
- SOCI 6203. Seminar in Research Methods

With approval of the student's Advisory Committee, the Chair or Graduate Advisor of the respective department offering the course, the remaining 9 hours may be selected from the following list of courses:

- ELDR 5203. Research in Education
- FS 5693. Research Methods in Family Sciences
- FS 5783. Issues in Early Childhood Research and Evaluation
- FS 6693. Advanced Quantitative Research Methods in Family Sciences
- FS 6793. Advanced Qualitative Research Methods in Family Sciences
- HCA 5223. Analysis and Management of Health in Populations
- HCA 5463. Research Methods in Health Care Administration

- LS 5753. Research Methods
- LS 6733. Action Research in Information Issues
- PSY 6863. Qualitative Research Methods and Program Evaluation
- READ 6483. Qualitative Research
- READ 6493. Advanced Qualitative Research Design and Analysis
- SOCI 6203. Seminar on Research Methods¹
- WS 5773. Qualitative Research Methods

Other courses may be selected as electives with approval of the student's Advisory Committee, the Chair or Graduate Advisor of the Department of Sociology and Social Work, and the Chair or Graduate Advisor of the respective department offering the course.

¹ May be repeated when topics vary.

Admission Requirements

Admission to the sociology masters program requires a bachelor's degree in sociology or its equivalent, a GPA of 3.0 or higher on the last 60 hours of undergraduate work and on all graduate work, along with a personal statement (2-3 pages) of interest and two letters of recommendation. Students without a bachelor's degree in sociology will be considered if the admission committee believes that the student shows academic promise.

Admission to the doctoral program in sociology requires a bachelor's degree in sociology or its equivalent, GRE, a GPA of 3.5 or higher on the last 60 hours of undergraduate courses and on all graduate courses, three letters of recommendation, and a personal statement of interest (2-3 pages). Students without a bachelor's degree in sociology will be considered if the admission committee believes that the student shows academic promise. International students must have a satisfactory score on the Test of English as a Foreign Language (TOEFL).

The applicant who has a GPA of at least 3.0 but meets other conditions above may be considered for conditional admission. Additional coursework may be required. The admission committee may request additional evidence of the applicant's ability to do graduate work.

Students admitted with a bachelor's degree can earn their M.A. degree during the course of study. They will be required to write a Master's thesis, which, together with their course work, will be evaluated by the sociology faculty at the end of their Master's stage. Based on the evaluation, the faculty could recommend that a student continue to pursue the Ph.D. degree or be awarded a terminal M.A. degree. The thesis requirement is waived for students admitted with a Master's degree.

Students applying for admission to doctoral study must meet the general admission requirements of either the Graduate School at TWU (see admission section of this catalog) or the Toulouse School of Graduate Studies at UNT. Students additionally must apply to the sociology program (see departmental handbook or guidelines for details). Applications of students who satisfy the Graduate School's admission standards are forwarded for review to the department admissions committee. This committee is responsible for recommending acceptance into the Federation doctoral program.

General Requirements for All Master's Degrees

Total Hours Required: 30 hours, including 6 hours for thesis OR 36 hours

Core: 9 hours, 3 hours each in sociological theory, social sciences research methods, and social science statistics

Major/Emphasis: 9-27 hours

Minor: Optional, 6 hours

Final Examination: Written and oral examination; may be repeated twice.

General Requirements for All Doctoral Degrees

Total Hours Required: 100 hours, including master's degree and 12 hours for dissertation

Core: 16 hours, including six hours in sociological theory, nine hours in social science research methods/statistics, and proseminar (1 hour)

First Area: 18 semester hours with SOCI prefix

Second Area: 15 semester hours (with SOCI prefix or permission of the advisory committee)

Dissertation: 12 semester hours

Research Tools: Twelve hours of approved research tools. Up to three hours of methods/statistics may be applied from Core area.

Qualifying Examination: Written exams in three areas (Core, First Area, Second Area). May be repeated once.

Final Examination: Oral Defense of Dissertation.

Minors Offered to Students from Other Departments

Students may minor in sociology at both the master's and the doctoral levels. Courses designed to complement the student's major field will be selected in consultation between the student and his/her advisory committee. Normally a minor in sociology requires 6 hours at the master's level and 12 hours at the doctoral level.

Courses of Instruction in Sociology

SOCI 5343. Seminar in Sociological Theory. Analysis of classical and contemporary sociological theories and schools of thought, their roots and inter-relationships. May be repeated for credit when topics vary. Three lecture hours a week. Credit: Three hours.

SOCI 5353. Methods of Teaching Sociology. Discusses issues and problems in college education and in teaching sociology. Gives students practice in organiz-

ing sociology courses, constructing syllabi, teaching units, test construction, and utilization of available resources in sociology. Three lecture hours per week. Credit: Three hours.

SOCI 5363. Survey Research. Overview of the research process with focus on survey research: problem selection, instrument design, measurement issues, data collection and analysis. Three lecture hours a week. Credit: Three hours.

SOCI 5373. Theories in Social Psychology. Major schools of thought about the nature of the person as affected by society, including structural, symbolic interactionist, phenomenological, and critical schools. May be repeated for credit. Three lecture hours a week. Credit: Three hours.

SOCI 5443. Race, Ethnicity, and Family. Social-cultural variations in family life within the framework of racial-ethnic identity. Examines the dynamics of family life in relation to such variables as group heritage, religion, social class, gender roles, and experiences with racism and/or ethnocentrism. Three lecture hours a week. Credit: Three hours.

SOCI 5463. Women of Color. Examines cultural and historical differences and similarities of women of color in the U.S. Examines interplay of race/ethnicity, gender, and social class; how women of color shape and are shaped by social forces. Three lecture hours a week. Credit: Three hours.

SOCI 5553. Social Stratification. Social ranking systems of human society as one form of social differentiation; relationship of theoretical approaches to areas of research and of theoretical concepts to specific research techniques. Three lecture hours a week. Credit: Three hours.

SOCI 5643. Race and Ethnic Groups in the United States. Emphasis on selected groups (African Americans, Mexican Americans, and Asian Americans), their history, heritage, contributions to society, similarities, and differences. Application of theory and research to current intergroup relations. Three lecture hours a week. Credit: Three hours.

SOCI 5663. Family: Current Topics. Analysis of selected topics in the area of the family. Selected topics may include: comparative family studies, marital dissolution and single parent families, family crises, family and violence, alternative family forms. May be repeated for credit when topics vary. Three lecture hours a week. Credit: Three hours.

SOCI 5733. Medical Sociology. Utilizes a cross-disciplinary systems approach to study the effects of social change on the individual, professional groups (changing roles) and medical institutions. Broad range of topics adjusted to meet needs of students enrolled. Three lecture hours a week. Credit: Three hours.

SOCI 5773. Qualitative Research Methods. Qualitative research philosophies including phenomenological, critical and feminist perspectives. Research design, data collection, analysis, and writing. Strategies for studying women's lives and developing culturally sensitive models. Responsible research and professional ethics including IRB process. Hands-on research. May be repeated for credit with permission of instructor. Three lecture hours a week. Credit: Three hours.

SOCI 5793. Community Resources and Practice. Examination of community resources, their distribution, availability and utilization in the urban community. Interdependence of effective intervention and problem solving with social policy, and distribution of resources. Three lecture hours a week. Credit: Three hours.

SOCI 5813. Community: Power and Change. The analysis of urban theory and research; history of the city; effects of urbanization on social, structural and cultural patterns; power and conflict at the community level; social planning for the metropolis; and future trends in urban, industrialized social systems. Three lecture hours a week. Credit: Three hours.

SOCI 5843. Feminist Theories. Thoroughly explores feminist critical inquiry, focusing on particular theoretical issues, historical writings, and/or disciplinary contexts within the diverse body of scholarship of feminist theory. May be repeated for credit when topics vary. Three lecture hours a week. Credit: Three hours.

SOCI 5903. Special Topics. Seminars on sociological theory, research methods, or selected substantive areas. Prerequisite: Permission of instructor. May be repeated for credit when topics vary. Credit: Three hours.

SOCI 5913. Individual Study. Individual study of topics in sociological theory, research, or in substantive areas selected in accordance with student's interests and needs. Prerequisite: Permission of instructor. Credit: Three hours.

SOCI 5953. Cooperative Education. Cooperative work-study arrangement between the University and business, industry, or selected institutions. No more than three credit hours counted toward degree. Pass-fail grade only. Nine laboratory hours per week. Credit: Three hours.

SOCI 5983. Thesis. Credit: Three hours.

SOCI 5993. Thesis. Credit: Three hours.

SOCI 6013. The Development of American Sociology. Development of sociology in the United States in social and historical context from pre-sociological thought of the 1830s to World War II. Formative stages of the discipline, its foundations, its influences, its quest for scientific legitimacy, and some of its early theoretical and empirical works. Particular attention given to neglected contributions of African American and female sociologists. Three lecture hours a week. Credit: Three hours.

SOCI 6043. The Scholarly Career. The nature of scholarly careers; the professional service role in the context of teaching and research; academia as a subculture and subsociety; information resources relevant to understanding scholarly careers. Three lecture hours a week. Credit: Three hours.

SOCI 6103. Seminar on Sociological Theory. Includes a sequence of classical, contemporary, and current theory courses; plus, a course on theory construction. Emphasis is placed on research in primary sources and class discussion of the assigned materials, presupposes some familiarity with sociological theories. May be repeated for credit when topics vary. Three lecture hours a week. Credit: Three hours.

SOCI 6203. Seminar on Research Methods. Theory and application of quantitative and non-quantitative methods to sociological data. Suggested topics may include: use of available data; qualitative and field techniques; data analysis; techniques of sociological measurement. Prerequisites: A course in statistics and one in basic research design or permission of instructor. May be repeated for credit when topics vary. Three lecture hours a week. Credit: Three hours.

SOCI 6303. Seminar on the Life Cycle. Analysis of selected topics in the area of the family and the life cycle. Suggested topics may include analysis of kinship systems and variation in family functions; sociology of childhood; sociology of youth; socialization and the development of the self; social gerontology. Prerequisite: Six hours in the area of the family or permission of instructor. May be repeated for credit when topics vary. Three lecture hours a week. Credit: Three hours.

SOCI 6321. Pro Seminar in Sociology. Prepares students for scholarly and professional work. Orients student to program and university requirements, mission, and scope. Facilitates professional socialization of the student. Required of all doctoral students. To be taken within the first year of graduate work. Pass/fail. One lecture hour a week. Credit: One hour.

SOCI 6403. Seminar on the Metropolitan Community. Analysis of selected topics in the area of metropolitan community. Suggested topics may include: urbanization, community resources, community power and change. Prerequisite: One course in urban sociology or permission of instructor. May be repeated for credit when topics vary. Three lecture hours a week. Credit: Three hours.

SOCI 6503. Seminar on Social Organization and Disorganization. An analysis of selected topics in such areas as the development of social institutions, the bases of social differentiation and integration, and deviant behavior. Suggested topics may include: the sources of social change; societal integration and social control; comparative social structures; small group studies. Prerequisite: A minimum of 12 semester hours in sociology or permission of instructor. May be repeated for credit when topics vary. Three lecture hours a week. Credit: Three hours.

SOCI 6911. Individual Study. Advanced individual study of topics in sociological theory, research or in substantive areas selected in accordance with student's interests and needs. Prerequisite: Permission of instructor. Credit: One hour.

SOCI 6913. Individual Study. Advanced individual study of topics in sociological theory, research or in substantive areas selected in accordance with student's interests and needs. Prerequisite: Permission of instructor. Credit: Three hours.

SOCI 6953. Cooperative Education. Cooperative work-study arrangement between the University and business, industry, or selected institutions. No more than three credit hours may be counted toward degree. Pass-fail grade only. Nine laboratory hours per week. Credit: Three hours.

SOCI 6983. Dissertation. Credit: Three hours.

SOCI 6993. Dissertation. Credit: Three hours.

Department of Women's Studies

Chair: Claire L. Sahlin, Professor

Location: HDB 307

Phone: 940-898-2119

Fax: 940-898-2101

E-mail: womenstudies@twu.edu

Website: www.twu.edu/ws/

Faculty: Professors A. Keating, M. Kessler, C. Sahlin; Assistant Professors A. Beins, D. Phillips; and over 30 affiliated faculty members.

Graduate Degree Offered

M.A. in Women's Studies

Ph.D. in Women's Studies

Graduate Certificate Offered

Post-baccalaureate Certificate in Women's Studies

The Department of Women's Studies offers an exciting multicultural curriculum that integrates diverse perspectives and critically applies feminist/womanist scholarship on behalf of social justice. The Master of Arts degree in Women's Studies and the Doctor of Philosophy degree in Women's Studies emphasize an understanding and appreciation of Women's Studies as a transdisciplinary, multicultural field of study. Undergraduate and graduate courses are regularly taught by over thirty faculty from across the University. Women's Studies uses multiple critical lenses to question, expand, and transform existing modes of knowledge and power in the service of social justice. It provides a curriculum grounded in diverse feminist theories, methodologies, and ethics; promotes interdisciplinary scholarly endeavors; and seeks to prepare leaders, particularly women, who will have the skills to negotiate change in academic and community settings.

The M.A. in Women's Studies is a two-year program that prepares students for Ph.D. work in Women's Studies or a traditional discipline with a focus in Women's Studies, for careers in agencies and organizations that serve women, or for advanced professional training in such fields as law and public policy. Students in Women's Studies examine issues related to understanding difference, identity, and power across a variety of contexts. In addition to coursework, students may assist in teaching Women's Studies courses, work in community agencies, participate in professional development and mentoring programs, and take part in feminist activities on campus and in the community.

The Doctor of Philosophy degree in Women's Studies prepares students to revitalize academic life by producing new forms of knowledge through transdisciplinary and transformative dialogue among faculty and students in diverse disciplines. Doctoral degree recipients will emerge from this program grounded in a rigorous graduate school education and equipped with effective communication skills, holistic-critical thinking skills, and transformative teaching techniques. As part of the program's unique transdisciplinary focus, students will obtain a deep understanding of the different forms that scholarly production, research methodologies, and pedagogies take in various academic disciplines in the humanities and social sciences. They will use this knowledge to create new dialogues among academic disciplines.

Admission Requirements

Please see the admissions section in the front of this catalog. In addition to these general requirements, the Department of Women's Studies requires the following for unconditional admission to the master's degree program:

1. A 3.0 GPA with supporting course work in the liberal arts and sciences or interdisciplinary studies.
2. A written statement of the prospective student's background, interests, and goals as these relate to Women's Studies (approximately 3-5 pages in length).
3. Two letters of recommendation from individuals (preferably professors) familiar with the prospective student's academic and/or professional work.

In addition to the general Graduate School requirements for admission, the Department of Women's Studies requires the following for unconditional admission into the Ph.D. degree program:

1. A completed master's degree
2. A grade point average of 3.5 or above on prior graduate-level course work.
3. Two letters of recommendation from referees who can address the applicant's past academic performance and future academic potential.
4. A statement of purpose: a short essay (approximately 1,000 words) discussing the applicant's personal and professional goals and how TWU's Ph.D. program in Women's Studies can assist the applicant in meeting these goals.
5. A writing sample: an academic paper not to exceed twenty-five pages, including notes and references.
6. A current curriculum vitae or resumé.

The GRE is not required for admission to the M.A. or Ph.D. programs in Women's Studies.

Prerequisite Coursework for the Ph.D. degree: Ideally, the previously-earned master's degree should include foundational courses in Women's Studies or other feminist scholarship, with at least one course in each of the following areas: feminist theories, U.S. women of colors, feminist pedagogies, and feminist epistemologies. If comparable courses have not been part of the prerequisite master's degree program, they may be completed as part of the doctoral degree in Women's Studies.

Provisional Admission to the Ph.D. Degree Program in Women's Studies: Admission to the Ph.D. program in Women's Studies may also be awarded on a provisional basis. Applicants who do not meet the unconditional criteria for admission, but who have a GPA of at least 3.0 on prior graduate-level course work, may be considered for provisional admission on an individual basis. Additional factors that may be considered in the provisional decision include the following:

- Verbal and quantitative scores on the Graduate Record Examination (GRE)
- Scholarly activities, and/or
- Professional leadership.

General Requirements for Master's Degree in Women's Studies

Total Hours Required: 30-36 hours minimum beyond the baccalaureate depending on option selected with at least 18 hours in Women's Studies. *Thesis Option:* Minimum of 30 hours, including 24 hours of course work, 6 hours for thesis, and oral exam. *Course Work Option:* Minimum of 36 hours of course work and a comprehensive examination.

Core Course Requirements: WS 5023, Foundations for Scholarly Inquiry in Women's Studies; WS 5463, U.S. Women of Colors; and WS 5843, Feminist Theories.

Final Examination: An oral examination for the thesis option and a comprehensive examination for the course work option.

Minor: Optional, 6 hours.

General Requirements for Ph.D. Degree in Women's Studies

Total Hours Required: A minimum of 90 hours beyond the baccalaureate, including 12 hours for dissertation. The doctoral degree is flexible and individually-tailored in order to most effectively meet each student's research interests and career goals. In addition to a set of required core courses, each student will develop an individualized degree plan composed of guided electives in American Studies, Health Studies, Multicultural Studies, Rhetoric/English, or Sociology; research tools; comprehensive examinations; and a dissertation. Students will select specific courses under the guidance of their graduate committee.

Required Core Courses:

- WS 6103. New Directions in Feminist/Womanist Theories
- WS 6203. Women's Studies Disciplinary/Interdisciplinary Knowledges
- WS 6303. Transdisciplinary Feminist Research Methods
- WS 6403. The Politics of Publications and Writing
- WS 6601. Transdisciplinary Studies Colloquium

Guided Electives: To enhance the transdisciplinary nature of the Ph.D. in Women's Studies, and to assist students in developing additional sets of innovative knowledges

and skills, each student, in consultation with the student's graduate committee, will select a 15-hour concentration in one of the following interdisciplinary or disciplinary areas: American Studies, Health Studies, Multicultural Studies, Rhetoric/English, or Sociology. The specific courses selected should complement or enhance knowledge in the student's anticipated area of research for the dissertation.

Qualifying Examination: A written and oral examination will be taken. The qualifying examination may be repeated once. Students are expected to take their qualifying examinations within one calendar year of completing the coursework.

Dissertation Defense: An oral defense of the dissertation is required. The defense may be repeated once.

Certificate Program

The Department of Women's Studies also offers a Graduate Certificate, which provides opportunities to develop understanding of Women's Studies scholarship, including diverse theories of knowledge, power, and social transformation. The Graduate Certificate Program is open to students enrolled in any graduate degree program at Texas Woman's University as well as to qualified individuals seeking only the Certificate. For students in graduate degree programs, the Certificate provides grounding in feminist research methods and approaches to traditional academic disciplines, while strengthening credentials for college-level teaching in Women's Studies. For Certification-only students, the Certificate complements professional work in community agencies and institutions that seek to enhance women's lives and promote social justice.

Requirements for the Graduate Certificate: A minimum of 18 hours of coursework at the 5000-level or above, completed with an average grade of B or better and selected in consultation with the Women's Studies Graduate Certificate Advisor. At least 9 hours must be selected from WS 5023, WS 5353, WS 5363, WS 5463, and WS 5843, and at least 3 to 9 hours must be selected from WS 5093, WS 5193, WS 5253, WS 5263, WS 5283, WS 5293, WS 5853, and WS 5903. Any remaining hours must be selected in consultation with the Women's Studies Graduate Certificate Advisor. These electives must be related to Women's Studies at the 5000-level or above.

Admission Requirements for Certificate Program: Students already admitted to another graduate program at TWU should submit a letter requesting admission and a statement of purpose (500-700 words) describing the relationship of the Certificate to their intellectual and professional goals. They should consult the Chair or Graduate Advisor of their graduate program to determine whether the coursework taken for the Graduate Certificate in Women's Studies will apply toward their degree. Students seeking admission to a master's or doctoral program, in addition to the Graduate Certificate in Women's Studies, must meet the entrance requirements of the degree program.

Students entering TWU only for the Graduate Certificate in Women's Studies must apply for admission to the Graduate School. In addition to the general requirements for admission, the Department of Women's Studies also requires a statement of purpose (500-700 words) describing the relationship of the Graduate Certificate to the student's intellectual and professional goals.

Minors Offered to Students from Other Departments

Students may minor in Women's Studies at both the master's and doctoral levels. Courses designed to complement the student's major field will be selected in consultation with the student's advisory committee. Normally a minor requires 6 hours at the master's level and 12 hours at the doctoral level.

Courses of Instruction in Women's Studies

WS 5013. Emerging Issues and Perspectives. Inquiry into current and emerging issues within Women's Studies. Lecture and/or seminar format. May be repeated for credit when topic changes. Three lecture hours a week. Credit: Three hours.

WS 5023. Foundations for Scholarly Inquiry in Women's Studies. Historical origins and development of Women's Studies within higher education, including critiques and contributions by women of color; relationships between theorizing and activism; the challenges of multi-, inter-, and transdisciplinarity; and emerging issues. Emphasis on development of research, writing, and communication skills. Three lecture hours a week. Credit: Three hours.

WS 5093. Law, Gender, and Sexuality. Same as GOV 5093. Evolution of legal rights for women and sexual minorities and theoretical issues raised in concrete legal cases. Examination of debates over equality approaches in law; ways in which law constructs gender and sexuality; and the intersecting roles of gender, sexuality, and race in legal doctrine and theory. Three lecture hours a week. Credit: Three hours.

WS 5193. Rights, Race, and Social Justice. Same as GOV 5193. Interpretations of the utility of constitutional rights in movements for social justice, with special attention to struggles for racial equality. Readings in legal studies, social sciences, critical legal studies, and critical race theory that address the relationship of legal rights and change. Three lecture hours a week. Credit: Three hours.

WS 5253. Transgressive Identities: Queer Theories and Critical 'Race' Theories. Feminist and womanist interventions into recent developments in queer theories and critical 'race' theories; the effects of racial, sexual, and gender impersonation, passing, and masquerade on identity categories. Three lecture hours a week. Credit: Three hours.

WS 5263. Feminism and Religion. Women's contributions to the formation and development of religious traditions with emphasis on Judaism, Christianity, and Islam; interconnections between religion, gender, sexuality, race, ethnicity, and culture; feminist critiques and transformations of religious traditions; relationships between spirituality and social change. Three lecture hours a week. Credit: Three hours.

WS 5283. Ecofeminist Theorizing, Spirituality, and Activism. Ecofeminist theorizing concerning interconnections between environmental degradation, sexism, racism, and globalization; spiritual dimensions of ecofeminism; and ecofeminist approaches to social change and environmental justice. Three lecture hours a week. Credit: Three hours.

WS 5293. Gloria Anzaldúa Seminar: Theories, Politics, and Transformation. Investigation of the theories and literature of Gloria E. Anzaldúa, focusing on her contributions to feminist theory, queer theory, poststructuralism, and other contemporary theoretical movements in the social sciences and the humanities. Examination of Anzaldúa's impact on Women's Studies, ethnic studies, and other academic disciplines. Three lecture hours a week. Credit: Three hours.

WS 5353. Feminist Pedagogies. Feminist philosophies of education and their significance to Women's Studies; pedagogical strategies for developing critical consciousness about social inequalities; preparation for teaching undergraduate courses in Women's Studies. Prerequisite: Three graduate credit hours in Women's Studies. Three lecture hours a week. Credit: Three hours.

WS 5363. Feminist Epistemologies. Politics of knowledge production and cognitive authority to illustrate how knowledge systems are marked by gender, race, sexuality, and class; relevance to questions across the disciplines concerning canon formation, methodological practices, and understandings of human subjectivity. Prerequisite: WS 5463 and three additional graduate credit hours in Women's Studies or instructor's approval. Three lecture hours a week. Credit: Three hours.

WS 5393. Women's Leadership: Skills, Style, and Strategies. Examines gender, cultural and other variations in management and leadership styles within social, economic, and cultural contexts. Identifies and develops skills in leadership and management including creating and communicating a vision; negotiating agreements; finding and becoming mentors; and managing resources. Three lecture hours a week. Credit: Three hours.

WS 5463. U.S. Women of Colors. Histories, theories, cultures, consciousness, and lives of U.S. women of colors from a variety of perspectives; issues related to conflict, agency, survival, resistance, intervention, and transformation. May be repeated for credit when topics vary. Three lecture hours a week. Credit: Three hours.

WS 5773. Qualitative Research Methods. Qualitative research philosophies including phenomenological, critical and feminist perspectives. Research design, data collection, analysis, and writing. Strategies for studying women's lives and developing culturally sensitive models. Responsible research and professional ethics including IRB process. Hands-on research. May be repeated for credit with permission of instructor. Three lecture hours a week. Credit: Three hours.

WS 5843. Feminist Theories. Thoroughly explores feminist critical inquiry, focusing on particular theoretical issues, historical writings, and/or disciplinary contexts within the diverse body of scholarship of feminist theory. May be repeated for credit when topics vary. Three lecture hours a week. Credit: Three hours.

WS 5853. Spiritual Activism: Social Justice Theories for Holistic Transformation. Exploration of issues related to spirituality, political activism, personal changes, and social transformation, focusing on multicultural approaches to social change. Investigates the roles of the imagination, creativity, and the arts in struggles for social justice. Examines indigenous contributions to holistic forms of activism. Three lecture hours a week. Credit: Three hours.

WS 5863. The Politics of Writing. Enhancement of writing and critical thinking skills in Women's Studies and other feminist scholarship; contributions of feminist/womanist theorists to academic discourse with emphasis on language, imagination, and social change. Writing assignments include paper abstracts, annotated bibliographies, conference papers, and journal articles in Women's Studies. Prerequisites: WS 5463 and nine additional hours of graduate coursework in Women's Studies or instructor's approval. May be repeated for credit when topics vary. Three lecture hours a week. Credit: Three hours.

WS 5903. Special Topics. Seminars on topics related to womanist/feminist theories or current areas of inquiry in multicultural women's studies. Three lecture hours a week. Credit: Three hours.

WS 5911. Individual Study. Individual study of topics in Women's Studies. Prerequisite: Permission of instructor. May be repeated for credit. Credit: One hour.

WS 5913. Individual Study. Individual study of topics in feminist theory, scholarship, or student's interests and needs. One hour of seminar, two hours of field/internship. Credit: Three hours. May be repeated for credit when topic varies.

WS 5983. Thesis. Credit: Three hours.

WS 5993. Thesis. Credit: Three hours.

WS 6103. New Directions in Feminist/Womanist Theories. Recent controversies, significant research questions, and new directions in feminist/womanist theorizing. Investigation of recent interventions in Women's Studies and feminist/womanist theories and theorizing. Three lecture hours a week. Credit: Three hours. May be repeated for additional credit when content varies.

WS 6203. Women's Studies Disciplinary/Interdisciplinary Knowledges. History of academic disciplines and knowledge production, the challenge of Women's Studies to conventional academic divisions, and the potential of Women's Studies to transform academic disciplines. Prerequisite: WS 5363 or instructor approval. Three lecture hours a week. Credit: Three hours.

WS 6303. Transdisciplinary Feminist Research Methods. Relational exploration of feminist, womanist, and multicultural research methods from a variety of disciplines including those in the social sciences and humanities, focusing especially on Women's Studies' impact on research methods. Overview of research tools and techniques, including qualitative, quantitative, historical, and literary research methods. Three lecture hours a week. Credit: Three hours.

WS 6403. The Politics of Publications and Writing. Issues related to academic writing and publishing, especially focusing on the fields of Women's Studies and multicultural-feminist scholarship. Submission of at least one article to a

peer-review journal and one abstract for a conference presentation. Three lecture hours a week. Credit: Three hours.

WS 6501. Holistic Pedagogies Colloquium. Explorations of holistic pedagogies, multicultural theory, and practical strategies for teaching Women's Studies courses, including face-to-face, hybrid, and exclusively online formats. Prerequisite: WS 5353 or instructor approval. One lecture hour a week. Credit: One hour. May be repeated for credit.

WS 6601. Transdisciplinary Studies Colloquium. Application of theories of intersectionality and difference to critical issues and research methods in diverse academic disciplines including those in the social sciences and humanities, with the goal of creating new knowledges. Similarities and difference among multidisciplinary, interdisciplinary, and transdisciplinary forms of scholarship and pedagogies. One lecture hour a week. Credit: One hour. May be repeated for credit.

WS 6911. Individual Study. Individual study of topics in womanist/feminist theory, scholarship, or student's interests and needs. One lecture hour a week. Credit: One hour.

WS 6912. Individual Study. Individual study of topics in womanist/feminist theory, scholarship, or student's interests and needs. Two lectures hours a week. Credit: Two hours.

WS 6913. Individual Study. Individual study of topics in womanist/feminist theory, scholarship, or student's interests and needs. Three lectures hours a week. Credit: Three hours.

WS 6983. Dissertation. Prerequisite: Successful completion of the qualifying examinations. Credit: Three hours. May be repeated for additional credit.

WS 6993. Dissertation. Prerequisite: WS 6983. Credit: Three hours. May be repeated for additional credit.

School of the Arts

Co-Coordinator:

Pamela Youngblood, Professor

Location: MUSIC 114

Phone: 940-898-2500

Fax: 940-898-2494

Website: www.twu.edu/arts/

Mary Williford Shade, Professor

Location: DGL 206A

Phone: 940-898-2086

Fax: 940-898-2098

Website: www.twu.edu/arts/

Faculty: Professors S. Bengé, J. Calabrese, L. Caldwell, J. Chenevert, N. Cohen, S. Grant, N. Hadsell, L. Stuckenbruck, G. Washmon, M. Williford-Shade, P. Youngblood; Associate Professors P. Bynane, S. Gamblin, D. Gregory, J. Jensen, G. Keeton, C. Parsons, R. Shuster, T. Synar; Assistant Professors V. Baker, R. Candelario, J. Fuchs, R. Gorman, J. Perez, S. Young; Clinical Assistant Professor J. Pinson.

Graduate Degrees Offered

M.A., M.F.A., and Ph.D. in Dance

M.A. in Drama

M.A. in Music (with emphases in Music Therapy, Music Education, Music Pedagogy, and Music Performance)

M.A. in Art (with emphases in Art Education, Art History, and Graphic Design)

M.A. and M.F.A. in Art (with emphases in Clay, Painting, Photography, and Sculpture)

The M.F.A. in Art degree is granted through the Federation of North Texas Area Universities.

The Department of Dance and the Department of Music are institutional members of their respective arts accrediting agencies. See department sections for information.

The School of the Arts brings together the Departments of Dance, Music and 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 performing arts productions, concerts, exhibitions and cross-disciplinary projects and programs. The School is committed to promoting understanding and appreciation of the power of the arts to reflect and influence society and to make a difference in the lives of the people they serve.

Performing and exhibiting facilities include the 1150-seat Margo Jones Performance Hall; the 110-seat Redbud Theatre; Eberly Recital Hall; studio performance spaces in the Dance building and Pioneer Hall; and two professional quality galleries in the Fine Arts Buildings.

Students may major in any one of the departments with degree programs leading to 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, admissions requirements, degree programs, and course listings for each individual Department are located in the department sections of this catalog and on the department homepages.

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

Department of Dance

Chair: Mary Williford-Shade, Professor

Location: DGL 206

Phone: 940-898-2085

Fax: 940-898-2098

E-mail: dance@twu.edu

Website: www.twu.edu/dance/

Graduate Degrees Offered

M.A., M.F.A. in Dance

Ph.D. in Dance

The graduate degree programs in dance are designed to prepare liberally-educated dance professionals for leadership opportunities as artists, educators, and scholars. Emphasizing the intersection of experiential and theoretical learning, the focus is on in depth and rigorous study of dance in a variety of artistic and cultural contexts. Consistent with the values of a liberal arts education and aesthetic inquiry in both art making and research and writing, the course work seeks to develop competency and creativity in various modes of communication including kinesthetic, written, verbal, and visual. Appropriate to the particular degree program, students develop innovative methodological and pedagogical strategies relative to their areas of dance making and research interests.

The Master of Arts in Dance degree program develops a broad knowledge of the discipline and is concerned with the intersections of theory and practice in the context of artistic, cultural, and educational praxis in dance. Students interested in educational and arts leadership may elect to address issues related to the role and significance of dance in education, the place of dance in society and the development of personal pedagogical philosophies. Students interested in research and writing may choose to emphasize course work designed to develop the knowledge and research skills necessary to undertake independent research in specialized areas of interest.

The Master of Fine Arts in Dance program provides students with opportunities to acquire and develop the skills and knowledge necessary to participate significantly in the field of contemporary dance. Through the development, implementation and expansion of individual artistic vision and goals, the program prepares students to excel in critical engagement while exploring innovative formats, venues and creative processes as a choreographer, performer, researcher/writer and arts leader. The M.F.A. program is a 3-year program of study focusing on developing an understanding of contemporary dance practices that values individual somatic engagement and diverse approaches to implementing artistic visions in shifting professional landscapes, including the ability to use and adapt a variety of technologies in ways that will expand notions of where and how to reach dance audiences.

The Doctor of Philosophy in Dance program is a low-residency cohort program designed for established professionals in the field of dance who are ready to pursue a broadly articulated research agenda. Focusing on theorizing artistic practice, the coursework provides a challenging research-intensive program of study examining and questioning the nature of dance praxis in philosophical, cultural, and historical contexts. Emphasizing an array of qualitative research methodologies, the program is designed to prepare doctoral candidates to engage in independent research that will lead to contributions of new knowledge to the field of dance. Students are accepted to the Ph.D. program every other year to begin study in the summers of even years. On-campus residencies consist of summer intensives, as well as one-week campus visits during the Fall and Spring semesters. Students will be continually engaged in their coursework throughout each semester and will work closely with faculty and their doctoral colleagues in the program. The residential intensives, interwoven with web-based interactions, will facilitate scholarly discourse intended to connect the exploration of artistic practice and pedagogy with students' professional and research interests.

Texas Woman's University Department of Dance is an accredited institutional member of the National Association of Schools of Dance.

Specific application procedures, detailed programs of study, and relevant Department of Dance policies and procedures for each of the degree programs are available in the Dance Department Office. Information is also available at www.twu.edu/dance.

General Requirements for Master of Arts Degree

Total Hours Required: 36 hours, including hours for thesis or professional paper.

Minor: Optional

Comprehensive Final Examination: Oral examination encompassing academic and artistic aspects of the program. May be repeated once at discretion of the committee.

General Requirements for the Master of Fine Arts Degree

Total hours required: 67 hours, including choreography/performance culminating project and professional paper. The M.F.A. is a three-year course of study.

Special Requirements: Continuation in the program is contingent upon successful completion of the first year review.

Comprehensive Final Examination: Oral examination encompassing academic and artistic aspects of the program. May be repeated once at discretion of the committee.

Special Requirements for all Master's Degrees: Students are required to maintain a grade point average of 3.0 or better in all courses applied to the degree. A grade of 'C' or below in any course will not count toward the Master of Arts or Master of Fine Arts degree.

General Requirements for the Doctoral Degree

Total Hours Required: 90 hours, including master's degree credits, research tools, and 12 hours for dissertation.

Research Tools: The following required courses fulfill the research tool requirement (12 Semester Credit Hours): DNCE 6113 Seminar: Movement Analysis, Description and Theory Generation, DNCE 6113 Seminar: Scholarly Inquiry in Dance, DNCE 6113 Seminar: Qualitative Research Methodologies and DNCE 6023 Critical Analysis (Part I): Theory Analysis and Theory Development Research.

Research Tools: Two tools selected from such courses/competencies as the following: Foreign Language, Elementary and Intermediate Labanotation competency, Laban Movement Analysis as a Research Tool, Qualitative Research Methodologies, American Sign Language, and Online Information Retrieval and Internet Resources.

Residence Requirement: The low-residential format requires three summer intensives and week-long residencies in the Fall and Spring semesters during the two-years of coursework. Low-residential students must be continually enrolled, follow the prescribed sequence of courses and attend all on-campus residencies. Full-time in-residence students meet the same residency requirements. Refer to the Department of Dance doctoral program webpage for the dates of summer intensives and residencies.

Qualifying Examination: A written and oral examination will be taken covering areas selected by the candidate in consultation with the Advisory/Examination Committee. The content, format, administration and evaluation of the examination will be the responsibility of the Examination Committee. The Qualifying Examination may be repeated once. Students are expected to take their qualifying examinations within one calendar year of completing the coursework.

Final Examination: An oral defense of the dissertation is required. The defense may be repeated once.

Special Requirements for the Doctoral Program: Students must successfully complete core required courses in sequence. A grade of 'C' in a required core course will result in dismissal from the Ph.D. program.

Certification Programs Offered

Texas State Teacher's Certification

Minors Offered to Students from Other Departments

The requirements for a minor in dance at the master's level and doctoral level are determined in consultation with the student's advisory committee and a member of the graduate faculty in dance. A minor for a master's degree requires a minimum of 6 hours and a minor for a doctoral degree requires a minimum of 12 hours.

Courses of Instruction in Dance

DNCE 5023. Methods of Research in Dance. The role and tools of research in dance. Types of strategies and investigative techniques with focus on qualitative research. Three lecture hours a week. Credit: Three hours.

DNCE 5101. Dance Performance/Choreography. Participation in the choreographic, performance, and/or production aspects of dance concerts. Prerequisite: Dance major or permission of instructor. May be repeated for additional credit. Four laboratory hours a week. Credit: One hour.

DNCE 5162. Laban Movement Analysis: Effort/Shape. Rudolf Laban's theoretical framework for the study of functional and expressive movements from a qualitative perspective emphasizing movement exploration, observation, analysis, description, and notation. One lecture, two laboratory hours a week. Credit: Two hours.

DNCE 5172. Space Harmony/Choreutics. Rudolf Laban's harmonic spatial forms within the context of choreography and performance. One lecture, two laboratory hours a week. Credit: Two hours.

DNCE 5183. Intermediate Labanotation. Theory with emphasis on the reading and writing of dance scores. Three lecture hours a week. Credit: Three hours.

DNCE 5211, 5222, 5233. Workshop in Dance. Enrichment experiences in dance with distinguished guest artists: technique, performance, or choreography. Credit: One hour to three hours. May be repeated for additional credit.

DNCE 5223. Historical and Cultural Study of Dance Performance and Choreography. Role of mimesis, spirituality, rebellion, and creativity in dance performance and choreography within specific historical periods and cultures and the relationship to the artistic practice of contemporary dance artists. Prerequisite: Permission of instructor. Three lecture hours a week. Credit: Three hours.

DNCE 5243. Pedagogical Foundations for Dance. Analysis of dance genres and application of learning theories and teaching models to dance technique. Examination of concepts related to the development of the technically proficient and artistically expressive dancer. Three lecture hours a week. Credit: Three hours.

DNCE 5253. Artistic Process. Aesthetic and theoretical issues related to the nature of art making in dance and educating the dance artist: emphasis on the person, process, and product. Prerequisite: Permission of instructor. Three lecture hours a week. Credit: Three hours.

DNCE 5273. Adapted Dance. Field practice in leading and adapting dance activities for the differently abled with intensive work in group settings. Prerequisite:

site: Permission of instructor. Three lecture hours a week. Credit: Three hours.

DNCE 5281. Advanced Ballet Technique I. Advanced study of ballet technique. Prerequisite: Permission of instructor. Four and one-half laboratory hours a week. Credit: One hour. May be repeated for additional credit.

DNCE 5291. Advanced Ballet Technique II. Advanced study of ballet technique. Prerequisite: Permission of instructor. Four and one-half laboratory hours a week. Credit: One hour. May be repeated for additional credit.

DNCE 5301. Techniques in Contemporary Dance I. Study of advanced technique in contemporary dance. Prerequisite: Permission of instructor. Four and one-half laboratory hours a week. Credit: One hour.

DNCE 5311. Techniques in Contemporary Dance II. Study of advanced technique in contemporary dance continuing from DNCE 5301. Prerequisite: Permission of instructor. Four and one-half laboratory hours a week. Credit: One hour. May be repeated for additional credit.

DNCE 5333. Curriculum Inquiry in Dance and the Related Arts. Study of the arts as disciplines of knowledge focusing on the identification of modes of inquiry and the conceptual structures that constitute dance knowledge and the translation of these concepts into meaningful patterns for dance teaching/learning. Three lecture hours a week. Credit: Three hours.

DNCE 5901, 5903. Special Topics. Specially scheduled course on topic of current interest. Lecture or lecture and laboratory. Credit: One or three hours. May be repeated for additional credit.

DNCE 5911, 5913. Individual Study. Individual research leading to the solution of a problem of professional interest and significance. Prerequisite: DNCE 5023. Credit: One hour or three hours. May be repeated for additional credit.

DNCE 5973. Professional Paper. Research and preparation of a scholarly paper on a topic of interest and value to the student. May be repeated but only three hours may apply on degree. Credit: Three hours.

DNCE 5983. Thesis. Prerequisite: DNCE 5023. Credit: Three hours.

DNCE 5993. Thesis. Prerequisite: DNCE 5983. Credit: Three hours.

DNCE 6023. Critical Analysis of Professional Literature. A thorough study and critical analysis of the literature in the student's major and/or minor areas of specialization; emphasis on theory analysis and theory development. Three lecture hours a week. Credit: Three hours. May be repeated for additional credit.

DNCE 6113. Seminar. Informal, small group study of special problems or current issues in dance. Credit: Three hours. May be repeated for additional credit.

DNCE 6213. Current Issues in Historical Inquiry in Dance. How dance practice over time and across cultures has shaped the presentation of dance in contemporary society; the role of movement appropriation, dance reconstruction, and current theories of performance and gender. Prerequisite: Doctoral standing or permission of instructor. Three lecture hours a week. Credit: Three hours.

DNCE 6323. Philosophical Inquiry in Dance. Aesthetic inquiry as a process for examining ontological and epistemological issues in dance with a focus on

metaphoric process, hermeneutics, critical theory, and the presence of physicality in philosophical writing. Prerequisite: Doctoral standing or permission of instructor. Three lecture hours a week. Credit: Three hours.

DNCE 6911, 6913. Individual Study. Individual research leading to the solution of a problem of professional interest and significance. Prerequisite: DNCE 5023. Credit: One hour or three hours. May be repeated for additional credit.

DNCE 6983. Dissertation. Prerequisite: Successful completion of the Qualifying Examinations. Credit: Three hours. Prerequisite: DNCE 6983. Credit: Three hours.

Department of Music and Drama

Chair: Pamela Youngblood, Professor

Drama Program Director: Patrick Bynane, Associate Professor

Location: MUSIC 114 (Music); REDBUD 228 (Drama)

Phone: 940-898-2500 (Music); 940-898-2518 (Drama)

Fax: 940-898-2494 (Music); 940-898-2655 (Drama)

Email: music@twu.edu or drama@twu.edu

Website: www.twu.edu/music/ or www.twu.edu/drama/

Graduate Degrees Offered

M.A. in Drama

M.A. in Music (with emphases in music education, music pedagogy, music performance, and music therapy)

The Department of Music and Drama, housed within the School of the Arts, offers the Master of Arts degree in both drama and music, the latter with emphases in music education, music pedagogy, music performance, and music therapy. Description of the drama program begins immediately below. Description of the music programs follows.

Program in Drama

Course work and stage experience are designed to train well-rounded theatre practitioners who have the ability to function creatively and skillfully in a variety of theatrical situations. Committed to top quality theatre performance and excellence in the classroom, the graduate drama program provides practical as well as academic training for students pursuing careers in professional and educational theatre. Degree concentrations emphasize acting/directing, design/production, or literary/criticism.

Successful completion of a minimum of two creative projects is required for the Master of Arts Degree. Culminating projects can be creative, scholarly or a creative/scholarly hybrid and must meet professional standards. Projects may be selected from such focus areas as directing; acting; stage management; playwriting; technical direction; design; theatre history; or criticism. With permission of the faculty, a project may be completed off the Denton campus.

General Requirements for the Master of Arts Degree

Total Hours Required: 42 semester hours, including 6 hours for culminating creative projects.

Core: 22 hours:

- DRAM 5433 Contemporary Theatre
- DRAM 5473 Dramatic Criticism and Play Analysis
- DRAM 5483 Theatre History I
- DRAM 5493 Theatre History II
- DRAM 5521 Theatre in Performance (4 units)
- DRAM 5913 Individual Study (Project I)
- DRAM 5973 Professional Paper (Project II)

Special Requirements: 1) Continuation in the program is contingent upon successful completion of the qualifying creative project or thesis proposal (Project I). 2) Students are required to maintain a grade point average of 3.0 or better in all courses applied to the graduate degree. A grade of 'C' or below in any drama course will not count toward the Master of Arts degree. 3) No student may begin project work without prior approval of the student's Graduate Committee. Students with limited experience in drama may be asked to take some undergraduate courses as prerequisites for graduate courses.

Final Examination: An oral examination on each of the culminating creative projects (two hours in length) will be given 1) approval or 2) disapproval. If either the qualifying or final project is not approved, the student's graduate committee may advise 1) completion of an additional project in the same focus area, 2) a switch in focus areas and completion of a new qualifying and final project, or 3) additional course work before any further project work is attempted. A student may attempt Project I or Project II no more than two times each with special permission from the drama faculty.

Online Master of Arts Degree in Drama

The TWU Master of Arts program online is designed for that special group of Texas residents who for financial and familial reasons must continue to work while they earn college credit.

At least 50% of the total institutional degree is offered by distance learning methods. Some courses are presented in traditional evening sessions. Other courses are a combination of a few class meetings (4-6) per semester plus on line communication. Some courses are completely on line, and others are through independent study with the faculty member.

Classes are offered in Redbud Theater on the TWU Denton campus and on-line. The TWU Master of Arts degree plan requires 42 hours for successful completion. The core courses below are mandated; all others are electives.

Core Requirements

DRAM 5433 Contemporary Theatre **	3
DRAM 5473 Dramatic Criticism and Play Analysis **	3
DRAM 5483 Theatre History I **	3
DRAM 5493 Theatre History II **	3
DRAM 5521 Theatre in Performance (4 units) **	4
DRAM 5913 Individual Study (Project I) **	3
DRAM 5973 Professional Paper (Project II)	3

Electives

DRAM 5403 Problems in Production: Advanced Directing	3
DRAM 5403 Problems in Production: Characterization	3
DRAM 5503 Styles of Acting	3
DRAM 5513 Theatre Management	3
DRAM 5533 Adv. Theatrical Design: Scenery	3
DRAM 5533 Adv. Theatrical Design: Costumes	3
DRAM 5533 Adv. Theatrical Design: Make-Up	3
DRAM 5533 Adv. Theatrical Design: Lighting	3
DRAM 5543 Speech for the Stage	3
DRAM 5901 Special Topics: Stage Management	1
DRAM 5901 Sound for the Theatre	1
DRAM 5903 Special Topics: History of Musical Theatre	3
DRAM 5903 Special Topics: History of Costume *	3
DRAM 5903 Special Topics: Playwriting *	3
DRAM 5903 Special Topics: Intro to Film *	3

*These courses are fully online.

**These courses are online and required.

Minors offered to students from other Departments

Coursework equivalent to the undergraduate minor in Drama is required. Six additional graduate hours of drama must be selected in conference with the major and minor advisors.

Courses of Instruction in Drama

DRAM 5403. Problems in Production. Advanced theory and practice in the areas of theatrical design, play directing, and acting; practical experience provided by TWU Theatre productions. Two lecture and four laboratory hours a week. Credit: Three hours. May be repeated for up to nine hours credit.

DRAM 5433. Contemporary Theatre. A study in the trends and developments in the modern theatre, focusing attention on new plays, expanding scenographic ideas and directorial methods. Three lecture hours a week. Credit: Three hours.

DRAM 5473. Dramatic Criticism and Play Analysis. Analysis of dramatic literature for the theatrical practitioner. Special consideration will be given to the major theories of drama as they pertain to the production of plays. Three lecture hours a week. Credit: Three hours.

DRAM 5483. Theatre History I. A history of the theatre from Ancient Greece through the English Restoration, with analysis of the dramatic literature from each major period serving as the basis for discussion. Three lecture hours a week. Credit: Three hours.

DRAM 5493. Theatre History II. A history of the theatre from the eighteenth century to the present with analysis of the dramatic literature from each major period serving as the basis for discussion. Three lecture hours a week. Credit: Three hours.

DRAM 5503. Styles of Acting. Lecture and laboratory experience in the theories and styles of performance, from presentational to representational. Two lecture and four laboratory hours a week. Credit: Three hours.

DRAM 5513. Theatre Management. Instruction in budgets, season selection, grants preparation, long range planning, house management, techniques and marketing as related to educational and professional theaters. Three lecture hours a week. Credit: Three hours.

DRAM 5521. Theatre in Performance. Laboratory experience course required of all drama master's candidates. Minimum 40 clock hours in rehearsal, performance or technical crew work. Four laboratory hours a week. Credit: One hour. Repeatable.

DRAM 5533. Advanced Theatrical Design. Lecture and studio experience in the theories and principles of scenic, lighting, costume or makeup design. Three lecture hours a week. Credit: Three hours. May repeat for up to nine hours' credit.

DRAM 5543. Speech for the Stage. Instruction and laboratory study of the mechanisms of speech for the actor; training in breath control, articulation, enunciation, pronunciation as well as speech melody for the stage. Three lecture hours a week. Credit: Three hours.

DRAM 5901. Special Topics. An organized class for the study of particular area or subject not offered in another scheduled course. Prerequisite: Permission of instructor. Credit: One hour.

DRAM 5903. Special Topics. An organized class for the study of particular area or subject not offered in another scheduled course. Prerequisite: Permission of instructor. Credit: Three hours.

DRAM 5911. Individual Study. Individual supervisory and tutorial instruction; content might include directed readings, a research project or other similar studies. Prerequisite: Permission of instructor. Credit: One hour.

DRAM 5913. Individual Study. Individual supervisory and tutorial instruction; content might include directed readings, a research project or other similar studies. Prerequisite: Permission of instructor. Credit: Three hours.

DRAM 5973. Professional Paper. Credit: Three hours.

Programs in Music

Appropriate keyboard skills required of the major emphasis will be tested during the first term of enrollment. Music therapy students who do not have the appropriate professional certification (i.e., MT-BC) must complete all eligibility requirements for that exam prior to the awarding of the master's degree in Music with an emphasis in Music Therapy. See the music department handbook at www.twu.edu/music for current information on admission requirements.

International students must provide a Test of English as a Foreign Language (TOEFL) score of at least 550 (paper) or 213 (computer) or 79 (iBT); or an International English Language Testing System (IELTS) score of at least 6.5; or a Michigan English Language Assessment Battery (MELAB) score of at least 80.

General Requirements for All Master's Degrees

Total Hours Required: 36 semester hours

Special requirement: A grade of 'A' or 'B' for courses to be counted toward the degree.

Final Examination: An oral examination of two hours duration will cover a comprehensive review of the major area of emphasis, the culminating project, and general music literacy. The result of this examination will be given 1) approval; 2) qualified disapproval, resulting in reworking of research with another oral examination (once); or 3) disapproval.

Degree Plan – Master of Arts in Music with Emphasis in Music Performance (36 hours)

<u>Major Area</u>	Hours:
MU 5803 Recital	3
MU Performance	<u>12</u>
=	15
<u>Other Studies in Music</u>	
MU 5423 Music Education Research	3
MU 5933 Styles in Music	3
MU 5553 Seminar in Music Literature I	3
MU 5403 Music Theory Pedagogy	<u>3</u>
or	
MU 5903 Analytical Techniques	
=	12
Electives – not specified	9

Grand Total = 36 Hours

Degree Plan – Master Of Arts in Music With Emphasis In Music Education (36 hours)

<u>Major Area</u>	hours:
MU 5653 Seminar in Music Education I	3
MU 5663 Seminar in Music Education II	3
MU 5413 Music Education Assessment and Evaluation	3
MU 5423 Music Education Research	<u>3</u>
=	12
<u>Other Studies in Music</u>	
MU 5933 Styles in Music	3
MU 5403 Music Theory Pedagogy	3
or	
MU 5903 Analytical Techniques	
MU 5983/5993 Thesis	
or	
MU 5973 (Prof Paper) + 3 hr. elect.	<u>6</u>
=	12
Electives – not specified	12

Grand Total = 36 Hours

Degree Plan – Master of Arts in Music With Emphasis In Music Pedagogy (36 hours)

<u>Major Area</u>	hours:
MU 5553 Seminar in Music Literature I	3
MU 5753 Pedagogy I	3
MU 5763 Pedagogy II	3
MU 5803 Recital	<u>3</u>
=	12
<u>Other Studies in Music</u>	
MU 5423 Music Education Research	3
MU 5933 Styles in Music	3
MU 5403 Music Theory Pedagogy	3
or	
MU 5903 Analytical Techniques	
MU Performance	<u>9</u>
=	18
Electives – not specified	6

A lecture-recital will satisfy the recital requirement. Voice pedagogy students take a placement exam in sight reading and keyboard proficiency, and are expected to be proficient in German, French, and Italian diction.

Grand Total = 36 Hours*

Application for Admission to the Master of Arts Degree in Music with an Emphasis in Music Therapy

Students whose bachelor's degrees are in music, but not in music therapy, may apply for admission to the graduate program. However, these students will be admitted provisionally with the stipulation that they complete equivalency coursework and clinical experience that make them eligible for board certification by the Certification Board for Music Therapists. This equivalency coursework usually consists of about 50 undergraduate semester hours, most of which can be taken concurrently with graduate coursework in a carefully planned program. As part of the undergraduate equivalency coursework, a six-month internship is required prior to admission to the Graduate Practicum course in the master's degree program.

Students whose undergraduate degree is not in music will not be admitted to the graduate program in music with an emphasis in music therapy. Rather, they may apply as post-bachelor's degree students to complete equivalency requirements and/or a second bachelor's degree. Completion of these requirements will lead to eligibility to take the board certification examination in music therapy.

Degree Plan – Master of Arts in Music With Emphasis In Music Therapy (36 hours)

<u>Major Area</u>	hours:
MU 5533 Philosophies & Theories of Music Therapy	3
MU 5543 Multicult. Perspectives in Music Therapy	3
MU 5911 Graduate Practicum (3 times)	3
MU 5973 Professional Paper	3
or	
MU 5983/5993 Thesis	<u>6</u>
	12 (15 with thesis option)
<u>Other Studies in Music</u>	
MU 5933 Styles in Music	3
MU 5643 Research on Music and Behavior	3
MU 5403 Music Theory Pedagogy	3
or	
MU 5903 Analytical Techniques	
Music Electives	<u>3</u>
	12 (total)
<u>Other Electives*</u>	12 (9 with thesis option)

Grand Total = 36 Hours

*Selected from psychology, sociology, music therapy, social work, special education, drama, business/economics or other approved courses.

Electives

Approved electives may be selected from psychology, sociology, music therapy, social work, special education, drama, business and economics, music education, applied music, and other fields appropriate to the student's goals.

Testing for drugs, specific immunizations in addition to those required by TWU, proof of personal medical insurance, and/or passing a criminal background check may be required by certain facilities associated with the required clinical work or for certification. If students are unable to be cleared on any of these requirements, they may not be eligible to continue in the program or to obtain certification. The cost of any required background checks, immunizations, and/or drug testing are the responsibility of the student.

Certification as a Music Therapist (MT-BC) is achieved by passing a national examination administered by the Certification Board for Music Therapists. Completion of the undergraduate equivalency or an undergraduate degree in music therapy 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.

Dual Degree – Master of Arts in Music/Master of Science in Counseling and Development

TWU offers graduate music therapy students the alternative to complete a dual degree program. This program grants both the Master of Arts in Music (with an emphasis in Music Therapy) and the Master of Science in Counseling and Development. No student will be granted the dual degrees until s/he is eligible for the board certification exam in music therapy (i.e., the student must have completed the equivalency program including internship or already have completed an approved undergraduate degree in music therapy).

Students interested in completing the dual degree must complete separate applications to BOTH departments/programs through the Graduate School. If a student has already been admitted to the music program, it is only necessary to complete the application process for the M.S. in Counseling and Development and declare the intention to pursue the dual degree option. Dual degree students must declare their intentions to pursue this option prior to the completion of 12 semester hours of graduate credit toward their degrees.

Students pursuing the dual degree option will have two advisors – one in the Department of Music and Drama and another in the Department of Family Sciences – to assure proper sequencing of courses.

Dual Degree Plan – Master of Arts in Music with an Emphasis in Music Therapy/Master of Science in Counseling and Development

Music Core: 12 hours

MU 5933 Styles in Music 3

MU 5643 Research on Music and Behavior 3

MU 5973 Professional Paper 3

MU 5403 Music Theory Pedagogy 3

or

MU 5903 Analytical Techniques

Music Therapy Area: 10 hours

MU 5533 Philosophy and Theories of Music Therapy 3

MU 5543 Multicultural Aspects of Music Therapy 3

FS 5894 Internship in Counseling (joint internship in music therapy and counseling with joint supervision by MU and FS faculty) 4

Counseling Area: 42 hours

FS 5003 Lifespan Human Development 3

FS 5303 Professional Orientation and Ethics 3

FS 5313 Counseling Theory and Practice 3

FS 5323 Psychological Appraisal 3

FS 5353 Diagnosis and Treatment Planning 3

FS 5363 Prepracticum 3

FS 5364 Practicum in Counseling 4

FS 5373 Group Counseling 3

FS 5443 Multicultural Counseling 3

FS 5453 Counseling for Career Development 3

FS 5493 Community Mental Health Counseling 3

FS 5894 Internship in Counseling 4

FS 5911 Individual Study: Counseling and Development Portfolio 1

Counseling Elective 3

Testing for drugs, specific immunizations in addition to those required by TWU, proof of personal medical insurance, and/or passing a criminal background check may be required by certain facilities associated with the required clinical work or for certification/licensure. If students are unable to be cleared on any of these requirements, they may not be eligible to continue in the program or to become certified/licensed. The cost of any required background checks, immunizations, and/or drug testing are the responsibility of the student.

Certification as a Music Therapist (MT-BC) is achieved by passing a national

examination administered by the Certification Board for Music Therapists. Students completing the dual degree program must be eligible for board certification in music therapy prior to the awarding of the dual degree. Eligibility for board certification as a music therapist is achieved EITHER by completing an undergraduate degree in music therapy prior to admission to the dual degree program OR by completing an undergraduate equivalency program in music therapy concurrently with the dual master's degree curriculum. Completion of the undergraduate equivalency or an undergraduate degree in music therapy 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.

Licensure as a Professional Counselor is achieved by passing a state examination, after completion of coursework and the required supervised clinical work (3000 hours). Questions regarding eligibility for licensure as a counselor should be addressed to the advisor in the Department of Family Sciences or directly to the Texas State Board of Examiners of Professional Counselors.

Minors Offered to Students from Other Departments

Course work equivalent to the undergraduate minor in music is required. Six additional graduate hours of music must be selected in conference with the major and minor advisors.

Private Music Lessons

Consult the class schedule for course numbers.

Courses of Instruction in Music

MU 5403. Music Theory Pedagogy. Analysis, evaluation, and practical application of current pedagogical approaches and materials used in teaching music theory at the college level. Three seminar hours a week. Credit: Three hours.

MU 5413. Music Education Assessment and Evaluation. Study of assessment and evaluation in music education. Topics include different types of assessment, evaluation, and research, and introduction to human subjects review. Three lecture hours a week. Credit: Three hours.

MU 5423. Music Education Research. Study of: 1) evaluation and creation of research problems in music education and: 2) classroom and formal research in music education. Three lecture hours a week. Credit: Three hours.

MU 5503. Vocal Literature for Young Singers. Existing literature, new and old, for solo singers in grades 5 through 12; appropriate repertoire choices for these students. Three lecture hours a week. Credit: Three hours.

MU 5533. Philosophies and Theories of Music Therapy. A study of therapeutic theories as they relate to music therapy theory and clinical practice. Students will develop a personal philosophy of music therapy as a course outcome. Three lecture hours a week. Credit: Three hours.

MU 5541. Instrumental Ensemble. Training in ensemble playing for students in graduate school. Three hours of rehearsal per week. Credit: One hour. May be repeated for credit.

MU 5543. Multicultural Perspectives in Music Therapy. An exploration of musical idioms, aesthetics, and functions within diverse cultural contexts. Therapeutic issues related to working with clients of diverse backgrounds will be explored, and treatment strategies will be developed. Three lecture hours a week. Credit: Three hours.

MU 5551. Concert Choir. A select choral ensemble for students in graduate school. Prerequisite: Approval of Director. Three to five hours of rehearsal per week. Credit: One hour. May be repeated for credit.

MU 5553. Seminar in Music Literature I. Selected research projects in music literature. Prerequisite: Permission of the instructor. Three lecture hours a week. Credit: Three hours.

MU 5563. Seminar in Music Literature II. Selected advanced research projects in music literature. Prerequisite: Permission of the instructor. Three lecture hours a week. Credit: Three hours.

MU 5571. Jazz Lab Ensemble. Stage and dance instrumental organization for training in the field of popular music and jazz. Prerequisite: Approval of the director. Three to five rehearsal hours a week. Credit: One hour. May be repeated for credit.

MU 5581. Chamber Music. A select chamber ensemble for students in graduate level music curriculum. Prerequisite: Permission of instructor. Two lecture/rehearsal hours per week. Credit: One hour. May be repeated for credit.

MU 5591. Vocal Ensemble. Select opera workshop or music theatre ensemble or mixed vocal ensemble. Prerequisite: Audition. Three to five rehearsal hours a week. Credit: One hour. May be repeated for credit.

MU 5643. Research on Music and Behavior. An advanced study of the relationships among music, behavior, and therapeutic interventions with an emphasis on qualitative, small-sample, and quantitative experimental proposals suitable for their professional papers/thesis as a course outcome. Prerequisite: Permission of instructor. Three lecture hours a week. Credit: Three hours.

MU 5653. Seminar in Music Education I. A seminar for candidates for master's degree in music education; foundation and principles of music education including philosophy and history. Prerequisite: Permission of the instructor. Three lecture hours a week. Credit: Three hours.

MU 5663. Seminar in Music Education II. A seminar for candidates in music education; foundations and principles of music education, including learning theory and current developments. Prerequisite: Permission of the instructor. Three lecture hours a week. Credit: Three hours.

MU 5753. Music Pedagogy I. A comparison and analysis of current pedagogical approaches to the teaching of voice or instrument; attention to specific problems of the literature and technique, including appropriate studies in anatomy, physiolo-

ogy, and acoustics; particular emphasis upon the teaching of the younger student. Three studio hours a week. Credit: Three hours.

MU 5763. Music Pedagogy II. A continuation of MU 5753 with additional emphasis on advanced pedagogy suited to a university setting and/or the private studio. Class/studio observation is required. Three studio hours a week. Credit: Three hours.

MU 5803. Graduate Recital. Preparation and presentation of a public recital; content selected in consultation with applied teacher. Prerequisite: Permission of instructor. Credit: Three hours. May be repeated for credit.

MU 5901. Special Topics. An organized class for the study of particular area of subject not offered in another scheduled course. Prerequisite: Permission of instructor. Credit: One hour.

MU 5903. Special Topics. An organized class for the study of particular area or subject not offered in another scheduled course. Prerequisite: Permission of instructor. Credit: Three hours.

MU 5911. Individual Study. Individual supervisory and tutorial instruction; content might include directed readings, a research project, practicum, or other similar studies. Prerequisite: Permission of instructor. Credit: One hour.

MU 5913. Individual Study. Individual supervisory and tutorial instruction; content might include directed readings, a research project, or other similar studies. Prerequisite: Permission of instructor. Credit: Three hours.

MU 5933. Styles in Music. A comprehensive review of music literature, theory, performance practice, and cultural trends from specific historic periods. Three lecture hours a week. Credit: Three hours.

MU 5973. Professional Paper. Credit: Three hours.

MU 5983. Thesis. Credit: Three hours.

MU 5993. Thesis. Credit: Three hours.

Department of Visual Arts

Chair: Michelle Hays, Associate Professor

Location: ART 107A

Phone: 940-898-2530

Fax: 940-898-2496

E-mail: mhays@twu.edu

Website: www.twu.edu/visual-arts/

Graduate Degrees Offered

M.A. in Art with emphases in Art Education, Art History, and Graphic Design

M.A., M.F.A. in Art with Studio emphases in Ceramics, Painting, Photography, and Sculpture

The M.F.A. degree is granted through the Federation of North Texas Area Universities

The Department of Visual Arts graduate curriculum is structured to meet the needs of each individual admitted to the program. A program of study, subject to the approval of the Department of Visual Arts Chair and the Dean of the Graduate School, is developed after consultation with the major advisor. Additionally, an advisory committee is appointed consisting of the primary and secondary advisors, and one other faculty member. The purpose of the committee is to assist and counsel the student as he or she progresses through the paper/project and/or exhibition. Should the need arise, the student may petition for modification of the program of study. For further information, please visit the Visual Arts web site at: (www.twu.edu/visual-arts/).

Admission Requirements

Please see the admissions section of this catalog. In addition to these requirements, the Department of Visual Arts requires the following for admission to the master's degree programs. For more information on applying to the Department of Visual Arts, go to www.twu.edu/visual-arts/.

For the Master of Fine Arts degree: (1) GPA of at least 3.0 in last 60 hours of undergraduate work, (2) a portfolio of 20 images, or a PowerPoint presentation on a CD, of original works, (3) current transcripts, (4) brief statement of intent, (5) current vita, (6) personal interview with the chair and/or faculty advisor, (7) three letters of recommendation.

For the Master of Arts (30-hour and 36-hour degrees): (1) GPA of 3.0 in last 60 hours of undergraduate work, (2) current transcripts, (3) brief statement of intent, (4) current vita, and (5) personal interview with chair and/or faculty advisor. If applying for degree in graphic design, ceramics, painting, sculpture, or photography, a portfolio of 20 images in PowerPoint or CD format of original works is required. If applying for the M.A. art history concentration submit at least two examples of scholarly research papers, in lieu of a portfolio.

The Department of Visual Arts recognizes an undergraduate degree with major in art from any accredited institution of higher education as the necessary prerequisite for majoring in art at the Texas Woman's University. For the M.A. degree programs, the primary advisor and chair of the department determine exemptions and deficiencies and design a program of study. For the M.F.A. degree program, the departmental graduate committee and primary advisor determine exemptions and deficiencies and design a program of study. Normally, an undergraduate major in one of the art areas of concentration consists of minimum work taken in design (6 semester hours), drawing (9 semester hours), painting (3 semester hours), sculpture (3 semester hours), art history (12 semester hours), and a major area of concentration (12 to 24 semester hours).

The faculty will take all reasonable care with the portfolios; however, the department is not responsible for lost or damaged disks.

All students are admitted provisionally. All course deficiencies must be completed before the student begins graduate course work.

Deadline application for consideration for graduate assistantships is February 15. Include one letter of recommendation for GA and/or GTA positions. Final deadline for application is May 1.

Application deadline: February 15 for graduate admittance applications and priority financial aid/graduate assistantship consideration. Late applications will be considered until May 1.

General Requirements for All Master's Degrees

Total Hours Required: 30 hours with a primary area of concentration, including 6 hours for thesis, or 36 hours with a primary area of concentration, including 3 hours for a professional paper and project, or 39 hours without a primary area of concentration, including 3 hours for professional paper.

See degree plan outlines below for more details.

Final Examination: An oral examination of (1) Exhibition for M.F.A., (2) presentation of thesis for M.A. (30 hour), (3) presentation of professional paper with project for M.A. (36 hour), or (4) presentation of professional paper for M.A. (39 hour).

Degree Plan – Master of Arts in Art (Thesis Option)

Emphasis in one of the following areas:

Graphic Design, Ceramics, History of Art, Painting, Photography, Sculpture.

Primary area of concentration.....	12
Secondary area of concentration	6
Electives	6
Prospectus	3
Thesis	<u>3</u>
<i>Total minimum semester hours</i>	30

Degree Plan – Master of Arts in Art (Professional Paper/Project Option)

Emphasis in one of the following areas:

Graphic Design, Ceramics, Art History, Painting, Photography, Sculpture.

Primary area of concentration.....	18
Secondary area of concentration	6
Electives	6
Prospectus	3
Professional Paper/Project	<u>3</u>
<i>Total minimum semester hours</i>	36

Degree Plan – Master of Arts in Art – Emphasis in Art Education

The Department of Visual Arts provides two Art Education options: The Thesis Option (30 hrs.) and the Professional Paper/Project Option (36 hrs.). Both options provide rigorous, transformative, student centered, and individualized programs of study. They both meet the guidelines and standards of the National Art Education Association and the Texas Art Education Association.

The two Art Education options (Thesis and Professional Paper/Project Option) are designed to provide pedagogical competencies for both experienced and

future art teachers, art supervisors and art teacher educators. Both options provide advanced professional development for art educators at all levels. In particular, the Thesis Option is designed for students who want to teach at a community college or university as well as pursue doctoral studies at a research institution. In contrast, the Professional Paper/Project Option is designed to provide meaningful and advanced professional development for K-12 art teachers. The M.A.T. with an emphasis in Art Education is offered in cooperation with the College of Professional Education and the Visual Arts Department does provide Art Teacher Certification coursework. Students wishing to seek art teacher certification at the graduate level should contact the College of Professional Education about the M.A.T. with an emphasis in Art Education.

Art Education Concentration (Thesis Option) 30 hours

ART 5313 Foundations in Art Learning and Practice	3
ART 5323 Contemporary Issues in Art Learning and Practice	3
ART 5333 Individual Differences in Art Learning and Practice	3
ART 5343 Cognition, Art Learning and Advocacy	3
ART 5353 Curriculum in Art Learning and Practice	3
ART 5903 Research in Art Learning and Practice	3
Elective Courses: (May be within the Visual Arts Department)	6
ART 5983 Thesis Prospectus	3*
ART 5993 Thesis	3*
<i>Total Minimum Semester Hours</i>	30

Art Education Concentration (Professional Paper/Project Option) 36 hours

ART 5313 Foundations in Art Learning and Practice	3
ART 5323 Contemporary Issues in Art Learning and Practice	3
ART 5333 Individual Differences in Art Learning and Practice	3
ART 5343 Cognition, Art Learning and Advocacy	3
ART 5353 Curriculum in Art Learning and Practice	3
ART 5903 Research in Art Learning and Practice	3
Elective Courses: (May be within the Visual Arts Department)	12
ART 5983 Thesis Prospectus	3*
ART 5973 Professional Paper/Project	3*
<i>Total Minimum Semester Hours</i>	36

*More than one semester may be required to complete these classes, in which case reenrollment is necessary until courses are completed.

Additional Courses for Post-Baccalaureate Students Seeking Certification in All Level Art

In addition to seeking an M.A.T. with an emphasis in Art Education to secure All Level Art Teacher Certification (see above), students can alternatively elect to pursue all level art teacher certification via a Post-Baccalaureate individualized program. Students interested in this program to secure All-Level Art Teacher Certification should contact the College of Professional Education for detailed information on requirements for admission and certification.

General Requirements for Master of Fine Arts Degree

Total Hours Required: 60 hours, including 3 hours for M.F.A. project prospectus and 6 hours for M.F.A. exhibit.

Studio Concentration: Ceramics, Painting, Photography, and Sculpture

MFA Primary Field	27
MFA Secondary Art Field	12
Art History	6
Aesthetics or Philosophy or Theories of Art	3
Portfolio Photography	3
MFA Project Prospectus	3
MFA Exhibit	6
<i>Total Minimum Semester Hours</i>	60

Final Examination: Oral may be repeated twice.

Admission to Candidacy (M.F.A.)

For M.F.A. students, a portfolio review by Graduate Art Faculty is scheduled after 12 hours have been completed in primary area of study and no more than a total of 18 graduate hours. The following is submitted at the time of the review, (1) 20 images of a body of work, (2) current transcript, (3) degree plan, (4) artist statement (not more than 1 page), and (5) Vita. All undergraduate deficiencies must be completed prior to the review.

At the completion of all deficiencies and satisfactorily completing the 12 hour review, the candidate is admitted to the M.F.A. degree program unconditionally.

Admission to Candidacy (M.A.)

For M.A. students, a portfolio review with Advisory Committee is scheduled after 12 hours in the primary field. The following is submitted at the time of the review, (1) in studio areas (including graphic design, ceramics, painting, photography, and sculpture), portfolio of work, either original work or digital images, (2) in art education and art history, evidence of scholarly research, (3) current transcripts, (4) degree plan, and (5) artist statement.

At the completion of all deficiencies and satisfactorily completing the 12 hour review, the candidate is admitted to the M.A. program unconditionally.

Requirements, If the 12-hour Review Is Not Passed

If the student does not pass the 12 hour review: (1) the student may be reviewed again during the next scheduled portfolio review, and (2) additional course work taken in the primary area will be considered leveling courses and will not count toward the M.F.A. or M.A. degree until the student has satisfactorily passed the portfolio review.

The 12 hour reviews are scheduled fall and spring semesters.

Intermedia Emphasis (M.F.A.)

The Intermedia emphasis integrates the three areas of Papermaking, Book Arts, and Printmaking. This emphasis encourages experimental crossover among these paper-based disciplines. Students may choose two classes in one area and one class in each of the remaining areas for a total of 12 hours. The possible class combinations are as follows*:

- 1) 2 Book Arts, 1 Papermaking, 1 Printmaking
- 2) 2 Papermaking, 1 Book Arts, 1 Printmaking
- 3) 2 Printmaking, 1 Book Arts, 1 Papermaking.

*One course in each of the three areas should be taken first, with a second class in one of the areas taken last.

Courses of Instruction in Art

ART 5023. Painting Theory and Development. Problems in painting. All media. Development of stylistic and conceptual continuity in painting. Two lecture, four studio hours a week. Prerequisite: ART 4703 or permission of instructor. Credit: Three hours. May be taken for up to 15 hours credit.

ART 5043. Papermaking. The exploration of the age-old technique of making paper by hand. Use of Western and Eastern paper pulps and techniques. Paper coloration and the aesthetics of paper. Two lecture, four studio hours a week. Credit: Three hours. May be taken for up to 15 hours credit.

ART 5053. Typographic Bookmaking. The study of typographic bookmaking as an art form. An overview of historic as well as contemporary book forms. Technical problems dealing with design, typography paper, printing presses, and binding styles. Two lecture, four studio hours a week. Credit: Three hours. May be taken for up to 15 hours credit.

ART 5063. Theories of Art. Theories of art and beauty in Western culture. Organized chronologically beginning with ancient and concluding with 19th and 20th Century theories. Three lecture hours a week. Credit: Three hours.

ART 5223. Graphic Design. Special topics relating to graphic design, theory and practice. Special emphasis placed on graphic design as a medium of visual

communication. Prerequisite: ART 4223 for six hours' credit or permission of instructor. Field trips required. Two lectures, four studio hours a week. Credit: Three hours. May be taken for up to 12 hours credit.

ART 5303. Drawing. Advanced study of drawing; special problems. Prerequisite: Six hours of drawing or permission of instructor. Two lectures, four studio hours a week. Credit: Three hours. May be taken for up to 12 hours credit.

ART 5313. Foundations of Art Learning and Practice. Historical, philosophical and psychological foundations of art education. Three lecture hours a week. Credit: Three hours.

ART 5323. Contemporary Issues in Art Learning and Practice. Current trends and issues in art education and their impact on theory and practice. Three lecture hours a week. Credit: Three hours.

ART 5333. Individual Differences in Art Learning and Practice. Characteristics, needs, and programs for gifted/talented and special needs learners in art. Three lecture hours a week. Credit: Three hours.

ART 5343. Cognition, Art Learning and Advocacy. The role cognition plays in the art making, teaching, and learning process. Implications for art advocacy are examined. Three lecture hours a week. Credit: Three hours.

ART 5353. Curriculum in Art Learning and Practice. Curriculum theory, design, approaches and assessment in art education. Three lecture hours a week. Credit: Three hours.

ART 5653. Creative Photography. Special problems in the advanced study of creative and experimental photography; exhibition techniques. Graduate exhibition required. Field trips required. Prerequisites: Permission of instructor and chair of the department. Two lecture, four studio hours a week. Credit: Three hours. May be taken for up to 15 hours credit.

ART 5663. Alternative Photographic Process. Study of alternative photographic processes. Surveys a variety of historical and contemporary experimental processes including pinhole, cyanotype, vandyke, gum bichromate, xerox, transfers, and kwik print. Processes are done with sunlight and paint on emulsions. Two lecture, four studio hours a week. Credit: Three hours. May be taken for up to 6 hours credit.

ART 5673. Portfolio Photography. Preparation and production of professional portfolio including documentation of 2-D and 3-D art works, black and white press prints, color slides, resume, and artist's statement. Emphasis placed on basic camera operation and lighting techniques. Required for all students completing the M.F.A. degree. Two lecture, four studio hours a week. Credit: Three hours.

ART 5683. Professional Practices in Photography. Overview of career options in photography utilizing theoretical and technical skills. Professional and practical aspects of photography such as gallery and museum relations, portfolio presentations, criticism, business management and tax preparation, grant proposals, and darkroom construction. Two lecture, four studio hours a week. Credit: Three hours.

ART 5703. Painting. Study in oil, acrylic, and mixed media. Emphasis on development of personal work with a particular regard to contemporary painting. Prerequisite: ART 4703 or permission of instructor. Two lecture, four studio hours a week. Credit: Three hours. May be taken for up to 15 hours credit.

ART 5753. Sculpture. Advanced study of sculpture; execution of a major project; concentration on media; research. Prerequisite: Three hours of sculpture or ceramic sculpture or permission of instructor. Two lecture, four studio hours a week. Credit: Three hours. May be taken for up to 15 hours credit.

ART 5853. Advanced Ceramics. Special problems in advanced ceramics; technical or conceptual research. Prerequisite: Permission of instructor. Two lecture, four studio hours a week. Credit: Three hours. May be taken for up to 15 hours credit.

ART 5863. Advanced Ceramics Techniques. Advanced study of ceramics; special problems; technical or conceptual research. Prerequisite: Permission of instructor. Two lecture, four studio hours a week. Credit: Three hours. May be taken for up to 15 hours credit.

ART 5903. Special Topics. Study of selected advanced topics in art. Prerequisites: Permission of instructor. Credit: Three hours. May be taken for up to 12 hours credit.

ART 5913. Individual Study. Individual study of advanced technical problems in art. Prerequisite: Permission of instructor and department chair. Credit: Three hours. May be taken for up to 12 hours credit.

ART 5953. Cooperative Education. Credit: Three hours.

ART 5973. Professional Paper/Project. Prerequisite: ART 5983. Credit: Three hours.

ART 5981. The Professional Portfolio. Development of a professional portfolio by students in the Master of Arts in Teaching program demonstrating the student's growth in the Learner-Centered Competencies. Pass-fail grade only. May be repeated. Credit: One hour.

ART 5983. Thesis Prospectus. Designed to assist in developing a prospectus for the thesis, M.F.A. studio exhibit or professional paper/project. Credit: Three hours.

ART 5993. Thesis. Prerequisite: ART 5983. Credit: Three hours.

ART 5996. M.F.A. Exhibit. Studio research course for a student to complete the M.F.A. studio exhibit. Prerequisite: ART 5983. Committee review and oral exam. Credit: Six hours.

School of Management

Director: Paula Ann Hughes, Professor

Location: CFO 506

Phone: 940-898-2111

Fax: 940-898-2120

E-mail: som@twu.edu

Website: www.twu.edu/som/

MHSM Program Director: Rob Maurer, Associate Professor

Location: IHSD 8706

Phone: 214-689-6560, 940-898-2111

Fax: 214-689-6591

E-mail: rmaurer@twu.edu

Website: www.twu.edu/som/

Faculty: Professors P. Driscoll, P. Hughes, R. Rezac, M. Stankey, D. Young; Associate Professors P. Baker, S. Dragoo, R. Maurer, J. Nugent, M. Raisinghani; P. Raman, D. Rylander, M. Tengesdal, K. Webb; Assistant Professors D. Crews, D. Horn, A. Magie, M. Russ, S. Singh, G. Werema, L. Zou.

Graduate Degrees Offered

Master of Business Administration (M.B.A.)

Executive Master of Business Administration (M.B.A.)

Master of Business Administration with Accounting Emphasis (M.B.A.)

Master of Health Systems Management (M.H.S.M.)

M.B.A./M.H.S.M.

Master of Science in Food Systems Administration/M.B.A.

Graduate Certificates Offered

Post-baccalaureate Certificate in Accounting

Post-baccalaureate Certificate in Business Management

Post-baccalaureate Certificate in Health Organizations Management

The School of Management offers graduate programs leading to the M.B.A. (Master of Business Administration) as well as a joint M.B.A./M.H.S.M. degree. The M.B.A. program offers two alternatives: (1) thesis option consisting of 30 semester hours, including 6 semester hours for thesis, or (2) non-thesis option consisting of 36 semester hours. Students entering the master's program in business receive an educational experience which will assist them in accomplishing their life goals. A wide selection of courses permits the student to gain a comprehensive view of the business and economics field.

The Executive M.B.A. (E.M.B.A.) program is designed for professionals with 5 years of work experience. The program is designed in 12 six-week modules. Most classes consist of a combination of 51% distance learning and 49% classroom instruction on 3 Saturdays. The program is offered in Fort Worth, Plano, and Houston, TX. Study Tours are often highlights of these programs. Business, culture, and history are facets of each tour. Spain, Thailand, Mexico and Ireland are some locations that have been visited.

The M.B.A. with an accounting emphasis is designed for students wanting to continue their education in accounting. While a bachelor's degree in accounting is not a prerequisite, students are expected to have had a minimum of 15 undergraduate hours in accounting. The courses are available either online and/or on Saturdays. The program includes non-accounting courses which are offered in conjunction with E.M.B.A. classes.

The 45-hour Master of Health Systems Management (M.H.S.M.) is designed to prepare future executives to assume responsible positions in health care organizations. The program is designed to meet the needs of the working professional. Courses meet in the evening and on Saturday. Some course formats are a blended delivery of online and lecture sessions. The program emphasizes three general areas:

The Health Care Environment: History and organization of the health care system, the utilization and quality of health care, policy and legal aspects.

Management Science: Organizational and operational analysis, human resource management, financial and quantitative analysis.

Strategy and Leadership: Strategic planning and leadership behavior with an emphasis on ethical, social and community responsibilities.

Skills in word processing and spreadsheet applications are utilized in the courses.

The M.B.A./M.S. dual degree is for students in Food Systems Administration that plan careers in Food Service System Management. For information on this program, please refer to the Department of Nutrition and Food Sciences.

The M.B.A./M.H.S.M. dual degree is designed to prepare future executives to assume responsible positions in health care and related organizations. The program will provide a mechanism for students to further enhance the management skills acquired through the M.H.S.M. program and to gain expertise in the business of health services not available through the M.B.A. curriculum. Graduates will be required to earn a total of 57 hours of credit and will receive both degrees. The strength of the dual degree lies in the fact that it applies the theoretical concepts of business administration to the management of health care organizations.

The major objective of these programs is to produce intellectually well-developed graduates capable of responding to the needs of business, industry, health care, government, and education in an ever-changing environment. The School of Management recognizes the worth of every graduate student in the University and strives responsibly to provide all students with learning opportunities that will assist them in discovering, using, and developing optimally their individual skills, attitudes, and knowledge.

The E.M.B.A. program is delivered in an accelerated format. Students generally will take one class at a time, and three classes per semester. Graduate students who are working professionals should attempt no more than nine credit hours per semester. A graduate student is considered full-time if enrolled in nine semester hours. Students wishing to enroll in more than nine semester hours per semester must receive special permission from the department. Each request will be considered by the department on an individual basis. The program offers a suggested course rotation; students may enroll in the Applied Business Environment class only during the final semester.

Admission Requirements

Please see the admission section at the front of this catalog. Any prerequisite hours will depend upon the particular course of study desired by the student and their preparation. For entry to the M.B.A./M.H.S.M. program, students must meet the admission requirements of each program. Please refer to the appropriate sections of the catalog to see the specific details. The right is reserved to require students to have adequate preparation for their particular program.

Applicants to the E.M.B.A. program must also submit two letters of reference and a resume, and may be asked to participate in a brief interview.

General Requirements for the M.B.A. Degree

Total Hours Required: 30 hours (thesis option) 36 hours (non-thesis option).

Special competency requirements: Strong computer and communication skills

Required courses for the thesis option:

BUS 5133 Marketing Management
 BUS 5243 Administrative Managerial Finance
 BUS 5893 Applied Business Environment
 BUS 5433 Managerial Accounting
 BUS 5523 Management and Organization
 ECO 5143 Advanced Managerial Economics
 BUS 5903 Advanced Elective
 BUS 5983 Thesis
 BUS 5993 Thesis

Required courses for the non-thesis option

BUS 5133 Marketing Management
BUS 5153 Research Methods in Business
BUS 5243 Administrative Managerial Finance
BUS 5893 Applied Business Environment
BUS 5433 Managerial Accounting
BUS 5523 Management and Organization
BUS 5543 Advanced Quantitative Management Analysis
BUS 5763 Strategic Information Systems
ECO 5143 Advanced Managerial Economics
BUS 6 hours (Electives)
BUS 5903 Advanced Elective

General Requirements for the Executive M.B.A. Degree

BUS 5133 Marketing Management
BUS 5243 Administrative Managerial Finance
BUS 5433 Managerial Accounting
BUS 5453 Leadership
BUS 5523 Management and Organization
BUS 5663 Managerial Decision Making
BUS 5893 Applied Business Environment
BUS 5923 Global Business
BUS 5933 Business Ethics and Legal Environment
BUS 5963 Management of Operations
BUS 6 hours (Electives)

**General Requirements for the Executive M.B.A. –
Health Systems Management Emphasis**

BUS 5523 Management and Organization
BUS 5663 Managerial Decision Making
BUS 5433 Managerial Accounting
BUS 5933 Business Ethics and Legal Environment
BUS 5963 Management of Operations
BUS 5133 Marketing Management
BUS 5243 Administrative Managerial Finance
BUS 5893 Applied Business Environment
HSM 5023 Health and the Health Care System
HSM 5033 Health Services Human Resource Management
HSM 5183 Health Resources and Policy Analysis
Elective

General Requirements for the M.B.A. – Accounting Emphasis

(For students who acquire their degree in accounting at TWU)

BUS 5203 Accounting Information Systems II – Modeling

BUS 5423 Auditing

BUS 5463 Advanced Tax Research

BUS 5473 Financial Statement Analysis

BUS 5483 Accounting for Management Control

BUS 5493 Accounting Theory

BUS 5243 Administrative Managerial Finance

BUS 5453 Leadership

BUS 5523 Management and Organization

BUS 5893 Applied Business Environment

(For students who acquire a degree in accounting from another institution)

BUS 5203 Accounting Information Systems II – Modeling

BUS 5423 Auditing

BUS 5463 Advanced Tax Research

BUS 5473 Financial Statement Analysis

BUS 5483 Accounting for Management Control

BUS 5493 Accounting Theory

BUS 5133 Marketing Management

BUS 5243 Administrative Managerial Finance

BUS 5453 Leadership

BUS 5523 Management and Organization

BUS 5893 Applied Business Environment

Elective: 3 semester credit hours.

General Requirements for the M.H.S.M.

BUS 5133 Marketing Management

BUS 5433 Managerial Accounting

BUS 5523 Management and Organization

HSM 5003 Management of Health Services Organizations

HSM 5033 Health Services Human Resources Management

HSM 5043 Legal Foundations of Health Care Administration

HSM 5053 Quantitative Methods in Health Systems Management

HSM 5063 Financial Management for Health Systems Management

HSM 5183 Health Resources and Policy Analysis

HSM 5263 Advanced Financial Management for Health Care Administration

HSM 5903 Special Topics – Analysis and Management of Health in Populations

HSM 5933 Capstone Seminar in Health Systems Management

Electives: 9 semester credit hours.

Residency (Optional): The residency consists of field experience in a health care organization. It is designed to provide students with the opportunity to integrate and apply knowledge and skills from their course experiences. While the residency is not required, it is strongly recommended for students who lack health care experience or whose experience is primarily technical or clinical. The decision regarding whether the residency should be included as one of the elective courses is made jointly by the faculty advisor and student.

Minors Offered to Students from Other Departments

Master's level requirements established by student's committee in consultation with the School of Management.

Courses of Instruction in Business

BUS 5013. Foundations in Business. Demonstration and application of the functional areas of the business environment with specific emphasis on marketing, management, business ethics, and the global dimensions of business. Three lecture hours a week. Credit: Three hours.

BUS 5133. Marketing Management. Study of major marketing problems from the point of view of the marketing executive; sales force organization; sales promotion, credit management, cost control, and advertising. Three lecture hours a week. Credit: Three hours.

BUS 5153. Research Methods in Business. Business research methods and statistical analysis used in business research. Three lecture hours a week. Credit: Three hours.

BUS 5203. Accounting Information Systems II – Modeling. Computer programs to create simple-to-sophisticated financial models for use in business problem solving and decision making. Prerequisites or corequisites: BUS 4173 or BUS 5433. Three lecture hours a week. Credit: Three hours.

BUS 5243. Administrative Managerial Finance. Analysis of the financial administration of sole proprietorships, corporations, government agencies, and non-profit organizations; short- and long-range financial planning; cash management; capital budgeting; social responsibilities. Three lecture hours a week. Credit: Three hours.

BUS 5263. Organizational Behavior in Business Administration. Organizational problems which involve the human factor; perspective for understanding and predicting behavior in formal organizations; interrelationships of structural and behavioral changes. Survey of research on organization in private and public organizations. Prerequisite: Degree in business or permission of instructor. Three lecture hours a week. Credit: Three hours.

BUS 5273. Human Resource Administration. Human resource programming, job requirements, sources of labor supply, selection procedures, training programs, job evaluation, salary administration, employee communication, union-management relations. Three lecture hours a week. Credit: Three hours.

BUS 5383. Compensation Management. An analysis of the procedures and problems involved in developing and maintaining a comprehensive program. Topics covered involve the theory and practical application of determining the content of the job, alternative job evaluation method, evaluation of employees, employee compensation plans, and compensation plans for management. Three lecture hours a week. Credit: Three hours.

BUS 5423. Auditing. An advanced study of auditor's attest function with emphasis on recent developments using practice cases. Topics include: risk assessment, fraud, SEC, and Sarbanes-Oxley. Prerequisites – BUS 4423. Three lecture hours a week. Credit: Three Hours.

BUS 5433. Managerial Accounting. Use of accounting information in decision-making; statement of changes in financial position; budgets, responsibility accounting, and quantitative techniques. Three lecture hours a week. Credit: Three hours.

BUS 5453. Leadership. Study of the dynamics of leadership of small groups to large organizations. The application of leadership theory is stressed for both profit and not for profit environments. Three lecture hours a week. Credit: Three hours.

BUS 5463. Advanced Tax Research. Primary and secondary tax research materials including online tax services; finding, analyzing, and communicating information for specific tax problems. Prerequisites: BUS 3063. Three lecture hours a week. Credit: Three hours.

BUS 5473. Financial Statement Analysis. In-depth discussion and practice in use of standard tools and methods for the analysis of financial statements. Prerequisites: BUS 3103 or BUS 5433. Three lecture hours a week. Credit: Three hours.

BUS 5483. Accounting for Management Control. Advanced topics in management accounting, such as budgeting, pricing decisions, indirect cost allocations, customer profitability, quality costs, just-in-time and virtual inventory systems, balance scorecard, environmental costing, capacity measurement, benchmarking practices, and performance measurement and compensation. Prerequisites: BUS 3103 or BUS 5433. Three lecture hours a week. Credit: Three hours.

BUS 5493. Accounting Theory. Financial accounting topics related to partnership accounting and consolidations; advanced topics covered on the CPA exam are also covered. Prerequisites: BUS 3023 and BUS 3043. Three lecture hours a week. Credit: Three hours.

BUS 5503. International Business and Economic Study Tour. Directed international Business and Economic study tour; examination of major trends in a selected foreign country's economic, cultural, and business structures. May be repeated. Three lecture hours a week. Credit Three hours.

BUS 5513. International Accounting. International accounting principles, reporting and practices in economic development, and changes with FASB and IASB. Three lecture hours a week. Credit: Three hours.

BUS 5523. Management and Organization. Study of the management and administrative roles in business organizations, including hospitals, schools, and government. Principles of management and specific concepts about organizations

including behavior, motivation, status, group dynamics, leadership, information-decision systems, organizational structure, managerial planning and control. Three lecture hours a week. Credit: Three hours.

BUS 5533. Advanced Management Information Systems. Study of systems concept, attributes of management information systems including data collection and transmission, data organization and storage, data processing, and information retrieval and display. Development of integrated or total systems. Three lecture hours a week. Credit: Three hours.

BUS 5553. Conflict Resolution. Application of principles and technical tools to solve human resource problems as found in employment, employee education and training, and labor relations. Three lecture hours a week. Credit: Three hours.

BUS 5573. E-Business. Concepts and frameworks for exploring E-Business opportunities; comparison and contrast of various E-Business models and electronic commerce strategies. Three lecture hours a week. Credit: Three hours.

BUS 5663. Managerial Decision Making. Advanced topics in statistical inference relating to decision-making and research in business and economics; probability theory, tests of hypotheses, a sampling and experimental design, multiple correlation and non-parametric statistical methods. Three lecture hours a week. Credit: Three hours.

BUS 5703. Coaching and Mentoring. Techniques for guiding individuals, groups and organizations to be effective, productive, and fulfilled. Contrasts between coaching and mentoring, between self-development and work performance, and between personal and organization coaching or mentoring. Three lecture hours. Credit: Three hours.

BUS 5713. Consumer Ethics. Ethical behaviors crucial to personal and corporate success; the historical concepts of a consumer-based culture; codes of ethics, theoretical models and managerial behaviors as the foundation to investigate ethics within the context of social responsibility. Three lecture hours a week. Credit: Three hours.

BUS 5723. Training and Development. Roles of the training manager, the training developer and the trainer in improving employee performance. Business plans for a training department; training standards, policies, budgets; marketing, developing, and delivering successful training programs; monitoring, evaluating and reporting training results. Three lecture hours a week. Credit: Three hours

BUS 5743. Project Management. Tools and techniques of project selection and management as defined by the Project Management Institute, including network diagrams, critical path analysis, critical chain scheduling, cost estimates, earned value management, and completion of team project management software required. Three lecture hours a week. Credit: Three hours.

BUS 5763. Strategic Information Systems. Foundation, structure, development, and implementation of information systems; management and control of corporate information systems; decision-support systems and expert systems; information technology economics; global information systems and knowledge management. Three lecture hours a week. Credit: Three hours.

BUS 5893. Applied Business Environment. The last class in the program designed to bring a strategic and integrative perspective. Students enrolling in this class must have completed 27 hours of graduate-level course work. Groups work on strategic initiatives for proposed or actual companies. Three lecture hours per week. Credit: Three hours.

BUS 5903. Special Topics. Variable content. Topics selected as needed. Three lecture hours a week. Credit: Three hours.

BUS 5911. Individual Study. Individual study of specific problems in business. Prerequisite: Permission of instructor. Credit: One hour.

BUS 5913. Individual Study. Individual study of specific problems in business. Prerequisite: Permission of instructor. Credit: Three hours.

BUS 5923. Global Business. Similarities and differences in business practices and management styles of global firms across a variety of industries; strategies employed to gain competitive advantage in international markets in the context of NAFTA; impact of history, culture, and current political environment on the global economy. Three lecture hours a week. Credit: Three hours.

BUS 5933. Business Ethics and Legal Environment. A critical examination/evaluation and discussion of ethical alternatives with respect to decision-making and action in business and managerial practice. Examines contemporary cases involving personal, social and legal issues as well as theoretical and empirical foundations in the classical system of ethics. Three lecture hours a week. Credit: Three hours.

BUS 5953. Cooperative Education. Cooperative work-study arrangement between business, industry, or selected institutions with the University. Preplanning and evaluation will involve 10% of the laboratory hours per week. Maximum enrollment is twelve hours. Nine laboratory hours per week. Credit: Three hours.

BUS 5956. Cooperative Education. Cooperative work-study arrangement between business, industry, or selected institutions with the University. Preplanning and evaluation will involve 10% of the laboratory hours per week. Maximum enrollment is twelve hours. Eighteen laboratory hours per week. Credit: Six hours.

BUS 5963. Management of Operations. Process and project management and development of functional strategies to create value for an employer and their consumers; management tools and approaches for analyzing operations and applications to a wide variety of managerial decisions. Three lecture hours per week. Credit: Three hours.

BUS 5983. Thesis. Prerequisite: Permission of instructor. Credit: Three hours.

BUS 5993. Thesis. Prerequisite: Permission of instructor. Credit: Three hours.

Courses of Instruction in Economics

ECO 5023. Advanced Price Theory. Special topics in resource allocation, pricing of final products and theory of production. Detailed study of competition under various market forms. Three lecture hours a week. Credit: Three hours.

ECO 5093. Money and Banking. Comprehensive study of role of money,

history of currency, recent monetary legislation, banking and financial institutions, the Federal Reserve System, money and the national income, governmental monetary and fiscal policy. Three lecture hours a week. Credit: Three hours.

ECO 5123. Advanced Macroeconomic Theory. Advanced methods and techniques for analyses of aggregative economic topics; Keynesian and pre-Keynesian theories of full employment; economic growth theories; personal income analysis; GNP and governmental stabilization problems and policies; price stabilization techniques. Three lecture hours a week. Credit: Three hours.

ECO 5143. Advanced Managerial Economics. Application of economic principles and techniques in solving management problems in the areas of demand analysis, sales forecasting, production and cost analyses, pricing policies, capital budgeting and economic controls; use of linear programming techniques. Three lecture hours a week. Credit: Three hours.

ECO 5173. Applied Health Economics. Application of economic principles of supply and demand for health services; economic factors affecting health manpower; cost-benefit relationships of health services; forecasting the market for health services. Three lecture hours a week. Credit: Three hours.

ECO 5913. Individual Study. Individual study of specific problems in economics. Prerequisite: Permission of instructor. Credit: Three hours.

Courses of Instruction in Health Systems Management

HSM 5003. Management of Health Services Organizations. Introduction to the theories, concepts, techniques, functions, and methods of management as they relate to health services organizations generally, with specific emphasis on hospitals. Three lecture hours per week. Credit: Three hours.

HSM 5023. Health and the Health Care System. Introduction to the organization, financing, and delivery of health services. Historical development, current structure, future direction, methods of payment, and function of the health care system are explored with emphasis on the determinants of health and disease, utilization of health services, patient-practitioner relationships, socio-cultural and governmental effects, disease prevention, and health promotion. Three lecture hours per week. Credit: Three hours.

HSM 5033. Health Services Human Resources Management. Techniques for effective management of human resources in health services organizations. The theories of organizational behavior are explored in relation to the functions and principles of human resource management including: planning, staffing, appraising, compensating, and developing employees. Relevant employment and labor relations law relating to health care organizations is examined. Prerequisites: HSM 5003 or permission of instructor. Three lecture hours per week. Credit: Three hours.

HSM 5043. Legal Foundations of Health Care Administration. Introduction to law as it affects the health delivery system with emphasis on both the theoretical and practical determinants of legal decision making. An examination of the American legal system, its principles and processes, as well as how the

law regulates issues related to control of costs through regulation and antitrust laws, and respect for “personhood” in the context of the professional-patient and organization-professional relationship are also addressed. The dynamics between law and ethics are explored. Prerequisites: HSM 5003 or permission of instructor. Three lecture hours per week. Credit: Three hours.

HSM 5053. Quantitative Methods in Health Systems Management. Fundamental principles of probability theory, statistical inference, linear regression, and management science applied to the analysis of management problems in health care administration. Applications include forecasting methods, deterministic and stochastic approaches to modeling systems behavior, and simulation methods. Three lecture hours per week. Credit: Three hours.

HSM 5063. Financial Management for Health Systems Management. Examination of the theory and practice of health care financial management and decision making methods. Emphasis is placed on the role of the finance function in measuring, evaluating, and controlling an organization’s performance. Topics include financial statement analysis; cash and working capital management; corporate planning, budgeting, and control systems; third-party reimbursement systems; discounted cash flow analysis; and capital investment decision analysis. Prerequisites: HSM 5053, BUS 5433. Three lecture hours per week. Credit: Three hours.

HSM 5073. Health Care Strategic Planning and Marketing. Application of planning and marketing theory and techniques in the management of health services programs. Focuses on mission and goal setting, strategy formulation, forecasting, estimating resource requirements, marketing mix, organizational and environmental assessment, evaluation of political, economic, and social constraints. Analysis and interpretation of health status and health resources data. Prerequisites: HSM 5003, 5023. Three lecture hours per week. Credit: Three hours.

HSM 5123. Foundations of Administrative Decision Making. Investigation of the administrative decision-making process and the social, cultural, and political constraints affecting decision making. Administrative and biomedical ethical issues are explored as well as methodology for addressing the problems these issues raise. The emphasis is on normative ethics and decision making for the manager in a health service organization. Issues such as implementation of a just organizational policy and development of the role of the health care manager as a moral agent are also included. Prerequisites: Completion of 12 semester hours or permission of instructor. Three lecture hours per week. Credit: Three hours.

HSM 5143. Critical Issues in Health Policy. Health policy developments arising from a variety of legislative, judicial, and administrative decisions influencing health system development. An assessment of the feasibility and acceptability of selected health policies from varying ideological, institutional, and professional perspectives. Prerequisite: Completion of twelve semester hours of HSM courses or permission of instructor. Three lecture hours per week. Credit: Three hours.

HSM 5163. Long-Term Care Administration. Organization and management of nursing homes, personal and residential care facilities, and institutions for other populations requiring long-term care. State and federal licensing and operating requirements, administrative functions, funding sources, and operational controls. Prerequisite: Completion of twelve semester hours of HSM courses or permission of instructor. Three lecture hours per week. Credit: Three hours.

HSM 5183. Health Resources and Policy Analysis. Determinants of U.S. health policy and resource allocation. Assessment of the impact of health policy on the medical marketplace. Ideological, social, and professional bases affecting health personnel, regulation, and forecasting health service needs. Three lecture hours per week. Credit: Three hours.

HSM 5263. Advanced Financial Management for Health Systems Management. Examination of the foundations of health care financial management decisions through a combination of case analysis and readings from the literature of health care finance. Emphasis is placed on understanding the role of risk in the financial decision-making process and on integrating the theory of financial decisions with practical problems in health care finance. Topics include: capital markets and the risk-return relation, estimating the cost of capital, valuation models, capital structure decisions, and agency relationships. Three lecture hours per week. Credit: Three hours.

HSM 5903. Special Topics in Health Systems Management. Group study of selected topics in Health Systems Management Prerequisite: Completion of all required/core courses. Credit: Three hours.

HSM 5913. Individual Study in Health Systems Management. Individual study of selected topics. Credit: Three hours.

HSM 5933. Capstone Seminar in Health Systems Management. An integrative course which emphasizes application of skills and knowledge acquired in the HSM curriculum. Health care management problems are solved using case studies, role playing, and simulation. Prerequisite: Completion of all required HSM courses. Three lecture hours per week. Credit: Three hours.

HSM 5935. Residency in Health Systems Management I. Field experience in a health care organization under the supervision of selected health care administrator and faculty. Project assignments are undertaken to integrate and apply administrative skills to practical problems. Prerequisite: Completion of all core/required courses and approval of faculty advisors. Credit: Five hours.

HSM 5945. Residency in Health Systems Management II. Field experience in a health care organization under the supervision of a selected health care administrator and faculty. Project assignments are undertaken to integrate and apply administrative skills to practical problems. (may be taken concurrently with HSM 5935). Prerequisite: Completion of all core/required courses and approval of faculty advisor. Credit: Five hours.

HSM 5956. Cooperative Education. Cooperative work-study arrangements between the University and selected institutions appropriate to the Health Systems

Management program. Job assignments are made on the basis of student interests, skills, and degree program. The student will apply the ideas and processes learned in other courses in practical experience under cooperative supervision. Cooperative planning and evaluation are essential elements in the course. Available only to students employed in a management position in a health care setting. For six hours of credit, 30-40 hours of work per week are required. Credit: Six hours.

HSM 5973. Professional Paper/Project. Independent research leading to the production of a written document of scholarly quality. Prerequisite: Permission of faculty advisor. May be repeated for credit. Credit: Three hours.

College of Professional Education

Dean: L. Nan Restine, Professor

Associate Dean: Peggy Malone, Associate Professor

Location: SH 202

Phone: 940-898-2202

Fax: 940-898-2209

Website: www.twu.edu/college-professional-education/

Programs in the College of Professional Education are designed to place knowledge in service to society. Four components comprise the College: the Department of Family Sciences, the Department of Reading, the Department of Teacher Education, and the School of Library and Information Studies.

The College of Professional Education provides graduate programs leading to the Master of Arts, Master of Arts in Teaching, Master of Education, Master of Library Science, Master of Science, Doctor of Education, and Doctor of Philosophy degrees. Specific degree and program information can be found under departmental listings and on the College website: www.twu.edu/college-professional-education/. Programs in the College of Professional Education are accredited by the State Board for Educator Certification.

Programs in the College of Professional Education are housed in the Human Development Building (HDB), the Multipurpose Classroom Laboratory Building (MCL), and Stoddard Hall (SH). A special facility housed in the Mary Evelyn Blagg Huey Library is the Teaching Materials Center. The center offers student access to State-adopted textbooks, curriculum guides, and other materials used in public schools in Texas. The Counseling and Family Therapy Clinic housed in HDB provides opportunities for research and practice in family sciences.

University Teacher Education Programs

The University is committed to excellence in the preparation of teachers. The programs respond to State teacher competencies by carefully constructed curricula in accord with State and national standards.

The Dean and the faculty of the College coordinate the teacher education program in concert with the Professional Education Council. This Council includes representatives from the College of Professional Education and all academic specializations related to teacher certification. Academic advising is available to students from the academic specializations and the College of Professional Education.

Post-baccalaureate students who wish to pursue a Texas teaching certificate should inquire in the COPE Student Support Center for information about options.

Graduate Interdisciplinary Degree

The M.A.T. is a Master of Arts in Teaching degree program leading to initial teacher certification. Certification is awarded by the State Board for Educator Certification.

The Master of Arts in Teaching (M.A.T.) emphasizes professional academic preparation that requires graduate students to become knowledgeable about academic disciplines and to develop effective teaching practices.

Admission Requirements for the M.A.T.

Admission to the M.A.T. requires a GPA of 3.0 in the last 60 hours and a cumulative GPA of 2.5, THEA/TASP scores of 260 in reading, 240 in math and 240 in writing (certification requirement), or Accuplacer Scores of 80 in reading, 65 in math and 82/6 in writing.

General Requirements for the M.A.T.

The M.A.T. requires a minimum of 32 hours: 16 hours of pedagogy and professional responsibilities/diversity in education; minimum 9 hours of coursework in selected content area; minimum 1 hour of portfolio preparation; and 6-12 hours supervised teaching experience. The M.A.T. requires a professional portfolio and final assessment.

Courses of Instruction in Professional Studies/Diversity

EDUC 5113. Foundations of Teaching and Learning

EDUC 5123. Learning Theory, Development, and Research

EDUC 5131. Integrating Technology in Assessment and Instruction

EDUC 5133. Assessment and Instructional Design and Delivery for

Diverse Learners

EDUC 5143. Effective Design and Management of the Classroom

Environment (EC-12)

EDUC 5173. Diversity in Education

Teaching Experience

A mentored teaching experience in the student's area of certification is required following one of two formats:

One-semester unpaid professional practicum (6 hours)

OR

Two-semester professional internship (6 hours/semester) in which student is employed as teacher of record

Special Requirements:

Students take the TExES in the content area (teaching field or academic specialization) during the semester of their admission. Test results are used to select the coursework required in the academic specialization.

Students must meet all TWU certification requirements to receive authorization to take the TExES examination in either their academic specialization or Pedagogy and Professional Responsibilities (PPR).

A degree plan can be submitted only after the content test is taken and test results are received.

Students must pass the content area TExES examination to become eligible for the professional practicum or internship.

Only courses in which the student achieved a grade of 'B' or better may be included on the degree plan.

Department of Family Sciences

Chair: Larry LeFlore, Professor

Location: HDB 115

Phone: 940-898-2685

Fax: 940-898-2676

E-mail: famsci@twu.edu

Website: www.twu.edu/family-sciences/

Faculty: Professors J. Armstrong, J. Engelbrecht, G. Jennings, L. Ladd, L. LeFlore, J. Martin, K. Petty, S. Snider; Associate Professors S. Adams, L. Brock, R. Buckley, N. Gillum, A. Hwang, S. Jackson, L. Moore, J. Muro, K. Rose; Assistant Professors P.J. Blanco, M.S. Green, E. McCarroll, S. McClintic, L. Muro, B. Vittrup, S. Woods.

Graduate Degrees Offered

M.S. in Child Development

M.S. in Counseling and Development

M.Ed. in Early Childhood Education

M.S., Ph.D. in Family Studies

M.S., Ph.D. in Family Therapy

Ph.D. in Early Child Development and Education

Certificate Offered

Post-master's Certificate in School Counseling

The Department of Family Sciences at Texas Woman's University offers graduate degree programs at both the master's and the doctoral levels. Master of Science programs are offered in the areas of Child Development, Counseling and Development, Family Studies, and Family Therapy. The Master of Education program is offered in Early Childhood Education. At the doctoral level, the Department of Family Sciences offers Ph.D. degree programs in Early Child Development and Education, Family Studies, and Family Therapy.

The mission of the Department of Family Sciences is described as follows: Through an integration of the root disciplines involved in life course human development, the Department of Family Sciences facilitates the development of learning and competencies in students who will enhance the quality of life for individuals and families in a diverse global society. The Family Sciences faculty empowers students to be proactive and systemic in approach. Students enrolled in Family Sciences graduate programs will find a considerable portion of classes offered in both an online and a traditional face-to-face format. Every program area includes classes with at least a portion of time dedicated to online instruction. The Master of Science in Family Studies is available in both online and traditional formats.

The M.S. in Counseling and Development is accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP). Students pursuing the M.S. in Counseling and Development may choose a focal area of interest in either Clinical Mental Health (MHC) Counseling (designed to meet educational requirements for Licensed Professional Counselor [LPC] licensure) or School Counseling (designed to meet educational requirements of the State Board for Educator Certification and LPC). Certificates are awarded by the State Board for Educator Certification; contact the Department of Teacher Education for information about current Texas certificates. Students who complete educational requirements in Clinical Mental Health Counseling are eligible to become a Licensed Professional Counselor (LPC). Students who sit for the licensure examination should be aware that successful completion of a 3000 clock hour postmaster's internship in counseling is required in addition to successfully passing the examination by the National Board of Certified Counselors in order to become a Licensed Professional Counselor. The master's degree in counseling meets the academic requirements for LPC.

Students may satisfy the academic requirements for Registered Therapist (RPT) in either Clinical Mental Health Counseling or School Counseling, if appropriate electives are successfully completed.

A dual Master of Science in Counseling and Development and Master of Arts in Music (with an emphasis in Music Therapy) is available to students who declare their intentions to pursue this option prior to the completion of 12 semester hours of graduate credit toward their degrees. Students must complete separate applications to both departments/programs through the Graduate School. Students are to consult with both departments for more information on degree plans and specific requirements for each department.

Students completing the master's and doctoral degree programs in Family Therapy have each met the academic degree requirements to sit for the national examination for Licensed Marriage and Family Therapist (LMFT) in Texas. Those who pass the licensure examination must also complete 3,000 hours of therapy under supervision as an LMFT-Associate before becoming fully licensed as an LMFT by the Texas State Board of Examiners of Marriage and Family Therapists.

Both the M.S. in Child Development and the M.S. in Family Studies meet the standards and criteria required for the Provisional Certified Family Life Educator (CFLE) designation from the National Council on Family Relations (NCFR). The Family Studies degree is not designed to train family therapists or counselors; the curriculum includes no clinical competencies.

The Early Childhood Education master's degree program provides professional development for teachers of young children.

The department seeks to guide students in strengthening and expanding their competencies and to prepare them for professional positions related to the degree programs offered. Degree programs are planned in consultation with advisory committees to meet the students' individual needs based on their academic and professional backgrounds and goals. No grade below 'B' is accepted toward a master's or doctoral degree in the department.

Admission Requirements

Please see the admissions section of this catalog for general TWU Graduate admissions requirements and process.

All applicants for graduate degrees in Child Development, Early Childhood Education, and Early Child Development and Education are expected to hold an earned bachelor's degree or equivalent and have a minimum 3.0 GPA for the last 60 hours of undergraduate study and a minimum of 3.0 GPA for all prior graduate work. In addition, applicants are expected to present Graduate Record Examination scores in both the Verbal and Quantitative areas. Applicants for the Master's degree are expected to submit a current vita and three letters of reference. Applicants for the doctoral degree are expected to submit a current vita, a letter of intent, and three letters of reference.

All applicants for graduate degree in Counseling & Development are expected to hold an earned bachelor's degree or equivalent and have a minimum 3.0 GPA for the last 60 hours of undergraduate study and a minimum of 3.0 GPA for all prior graduate work. In addition, an interview with program faculty is part of the admissions criteria and a role play assignment and a writing sample are required on the day of the interview. Individuals applying for the school counseling certification must have a Master's degree, Texas teaching certification, and 2 years of classroom teaching experience.

All applicants for the Master's degree in Family Therapy are expected to hold an earned bachelor's degree and have a minimum of 3.25 GPA for the last 60 hours of undergraduate study. In addition, they are expected to submit a letter of intent and participate in an interview as part of the admissions process. During the day of the interview, they will be asked to give a writing sample. Applicants for the doctoral degree in Family Therapy are expected to hold a Master's degree with a minimum of 3.5 GPA on all graduate work. In addition, a letter of intent is required. An interview with program faculty is part of the admissions criteria, and a writing sample is required on the day of the interview.

All applicants for the Family Studies graduate programs must submit a scholarly writing sample in the form of a letter of intent. Specifications are available from the Family Sciences office as well as the Family Sciences website. Individuals applying for the Master's degree are expected to hold an earned bachelor's degree or equivalent and have a minimum 3.0 GPA for the last 60 hours of undergraduate study and a minimum of 3.0 GPA for all prior graduate work. Individuals applying for the doctorate are expected to hold a Master's degree with a minimum of 3.35 GPA on all graduate work.

No more than 12 credit hours taken as a non-degree-seeking student may be applied on a degree plan. Regardless of the grade a student makes, taking 12 hours does not assure admittance to a graduate program in Family Sciences. The student must apply to the Graduate School as a non-degree-seeking student and must receive permission from the department chair before enrolling in graduate classes offered by the Department of Family Sciences.

General Requirements for All Master's Degrees

Minimum Hours Required: The number of hours required for master's degrees varies from program to program. Program requirements range from 33 to 61 hours. All degree plans are developed in consultation with the student's advisory committee and are based on current departmental requirements as well as individual student needs and objectives. No grade below 'B' is accepted toward the master's degrees described below.

Final Examination: Most programs require an oral defense of the thesis or portfolio. This examination may be repeated if deemed appropriate by the student's advisory committee, with the approval of the chair of the department. Family Therapy requires a written final exam.

Child Development: 33 hours (thesis option) or
 39 hours (non-thesis option)

Core: Courses in research and subject matter specified in degree plan.

Counseling and Development: minimum 52 or 61 hours respectively, in either of the focal areas of interest listed below:

(1) Professional School Counseling: Designed to meet the School Counselor educational requirements of the State Board for Educator Certification.

(2) Clinical Mental Health Counseling: Designed to meet the educational requirements for Licensed Professional Counselor (LPC).

Dual Degree in Counseling and Development and Music (with emphasis in Music Therapy). For a minimum of 56 hours students can meet the educational requirements for Licensed Professional Counselor (LPC) and the educational requirements to sit for the national examination administered by the Certification Board for Music Therapists (MT-BC).

Special Requirements: All students admitted to the Counseling and Development Program must meet departmental and program criteria prior to filing a degree plan. Students should refer to the Family Sciences Graduate Handbook and the Counseling and Development Program Guidelines for specific program criteria. Three of the first fifteen hours must be FS 5363 (Practicum). A grade of 'CR' is required in FS 5363 prior to enrolling in FS 5373. A grade of 'CR' is required in FS 5364 prior to enrolling in FS 5894. A student who earns a grade of less than 'B' ('C', 'D', 'F', or 'WF') in two graduate courses or in the same graduate course or who has earned a grade of 'PR' twice in FS 5363, 5373, 5364, or 5894 will be dismissed from the program.

Passing a criminal background check may be required by TWU and/or certain facilities associated with the required clinical work or for certifications/licensures. If students are unable to be cleared on any of these requirements, they may not be eligible to continue in the program or become certified/licensed.

Early Childhood Education: 36 hours (thesis option) or
39 hours (non-thesis option)

Core: Courses in research and subject matter specified in degree plan.

Family Studies: 34 hours (thesis option or professional paper) or
35 hours (non-thesis option)

Core: Courses in research and subject matter specified in degree plan.

Family Therapy: 57 hours (thesis or non-thesis option)

Core: Courses in research (6 hours) plus a minimum of 12 hours of clinical internship specified in degree plan. Students must also pass the Family Therapy M.S. final exam.

General Requirements for All Doctoral Degrees

Total Hours Required: A minimum of 90 hours above the bachelor's degree, including 6 hours for dissertation. (Proficiency in statistics is required as part of the program, including completion of a 6000-level statistics course.)

Major: Approximately two-thirds of the total semester hours.

NOTE: The specific course requirements and total hours are developed in cooperation with and approved in a meeting of the student's graduate advisory committee. The department chair also approves individual doctoral degree plans based on current departmental requirements.

Research Tools: The Department of Family Sciences requirement is currently consistent with the university requirements as described in the Graduate School General Requirements section of this catalog. Check with the department for any possible additions in acceptable courses to meet the research tool requirement. These requirements are a part of the 90 hours minimum described above.

Residence Requirement: None.

Qualifying Examination: A student seeking the doctoral degree in Family Studies must take the First Year Qualifying Examination in Family Studies before completing 18 credit hours. All students are required to complete all course work on the degree plan prior to taking the comprehensive examinations. The only exception to this rule is that a Family Therapy student may be completing the final semester of practicum during the semester when the comprehensive examination is taken. A student should enroll for the first semester of dissertation (FS 6983) during the semester when the comprehensive examination is taken. The three-day comprehensive exam is approximately two-thirds on the major and one-third on the minor

or related area. The exam will be prepared by the chair of the advisory committee from questions submitted by the committee members. An oral exam will follow successful completion of the written exam, normally within 10 days. The written and oral examination may be repeated one time.

Final Examination: An oral examination will include a defense of the dissertation and the research on which it is based, as well as questions concerning the major. The final examination may be repeated one time.

Early Childhood Education Teacher Certification

Students who wish to be certified to teach EC – grade 6 may pursue post-baccalaureate teacher certification or the Master of Arts in Teaching (M.A.T.). Students must have a cumulative GPA of 2.5 overall and 3.0 on the last 60 hours. TASP/THEA scores of 260 in reading, 240 in math, and 240 in writing are also required. Contact the Department of Teacher Education for specific requirements.

Family and Consumer Sciences Education – Post-baccalaureate Teacher Certification

Three certification options are available:

Family and Consumer Sciences composite certificate

Human Development and Family Studies specialized certificate

Hospitality, Nutrition, and Food Sciences specialized certificate

Students who wish to be certified to teach Family and Consumer Sciences may pursue post-baccalaureate teacher certification or the Master of Arts in Teaching (M.A.T.).

Minors Offered to Students from Other Departments

Students may minor in any program in the department with the exception of Family Therapy. Courses appropriate for the minor should be chosen in consultation with an advisor in the minor area or the department chair prior to enrollment.

Courses of Instruction in Family Sciences

FS 5003. Lifespan Human Development. Examination of similarities and differences in conceptions of behavior throughout the lifespan; emphasis on individual development in the context of the family; includes 15 hours directed observation. Three lecture hours and one laboratory hour a week. Credit: Three hours.

FS 5023. Family Sexuality. Concepts of developmental sexuality, including sex education within the family. Three lecture hours a week. Credit: Three hours.

FS 5103. Families as Consumers. Family decision-making, values, and goals; analysis of current consumer trends and issues impacting the family; strategies for consumer education and advocacy. Three lecture hours a week. Credit: Three hours.

FS 5113. Theories of Human Development. Focus on theoretical concepts of development in the areas of cognition, language, personality growth, educational theory, and social-cultural perspectives. Three lecture hours a week. Credit: Three hours.

FS 5123. Theories of the Family. Theoretical and functional approach to the family; the nature and functions of the family; its relationship to institutions, culture, and the individual. Three lecture hours a week. Credit: Three hours.

FS 5133. Family Law. Legal and ethical issues related to families; principal problems as seen by Family Sciences professionals; emphasis on marriage, divorce, custody, adoption, juvenile rights, malpractice, courtroom testimony, competence, and wills and estates. Three lecture hours a week. Credit: Three hours.

FS 5143. Addiction Counseling. Introduction to the assessment, theories, and treatment of dependency. Emphasis on effects of drug and alcohol abuse on individuals and families, the recovery process, and basic concepts and techniques of treatment and rehabilitation. Three lecture hours a week. Credit: Three hours.

FS 5153. Family Changes and Diversity. Comprehensive synthesis of current research and theories related to cultural, economic, and structural variations in families; examination of family resilience in response to change. Three lecture hours a week. Credit: Three hours.

FS 5163. Play Therapy. Philosophy and basic assumptions about functions of play for children, major theories and approaches to play therapy; observation and didactic work with children in play therapy. Three lecture hours and one and one-half laboratory hours a week. Credit: Three hours.

FS 5173. Crisis Intervention Counseling. Crisis theory and intervention strategies; special emphasis on suicidology, natural and man-made disasters, and crisis management in the schools. Three lecture hours a week. Credit: Three hours.

FS 5183. Grief and Bereavement. Death and bereavement from a social, psychological, biological, and physiological perspective; special types of loss such as death of a child, miscarriage, and bereavement by suicide; therapeutic interventions and strategies linked to the grieving process; ethical issues such as euthanasia, DNR orders, and withdrawal of life support. Three lecture hours a week. Credit: Three hours.

FS 5193. Statistics for Research in Family Sciences. Analysis of data using descriptive and inferential statistics; selection of appropriate statistical tests; interpretation of research publications; applications of statistical methods using computer software. Three lecture hours a week. Credit: Three hours.

FS 5203. Language and Literacy in Early Childhood. In-depth study of language and literacy for ages birth through eight, including strategies for promoting early literacy development at home and at school. Three lecture hours a week. Credit: Three hours.

FS 5213. Curriculum Development in Early Childhood. In-depth study of basic principles underlying curriculum construction and innovative instructional practices for ages birth to eight; emphasis on research related to organization and sequential arrangement of materials. Observations/Field Experience: 15 clock hours. Three lecture hours a week. Credit: Three hours.

FS 5221. Seminar in Family Sciences. Review of current research strategies and findings in relevant literature. Variable topics. May be repeated for five additional hours of credit. One lecture hour a week. Credit: One hour.

FS 5223. Child Growth and Human Development in Early Childhood. Motor, social, emotional, and cognitive aspects of the development of children birth through age eight. Observation/Field experience: 15 clock hours. Three lecture hours a week. Credit: Three hours.

FS 5233. Communication in Marriage and Family. Personal growth and professional development through the examination of effective communication in marriage and family. Presentation of various theories and techniques of communication to demonstrate diverse patterns of verbal and nonverbal communication within the family unit. Three lecture hours a week. Credit: Three hours.

FS 5243. Adolescents in the Family. Understanding of the physical, social, psychological, and behavioral characteristics of the adolescent in the context of the family. Three lecture hours a week. Credit: Three hours.

FS 5253. Gender Role Development. Development of male and female roles across the life cycle. Familial, parental, filial, and school influences. Implications for teachers, parents, administrators, and counselors. Three lecture hours a week. Credit: Three hours.

FS 5263. Observation and Assessment in Early Childhood. Designed to provide a comprehensive knowledge base concerning assessment of young children. Areas of emphasis include development of skills in selection, use and interpretation of developmentally appropriate formal, informal, and holistic instruments and procedures, measurement terms and principles, procedures and legal requirements for record keeping, use of technology in assessment, and managing an assessment team. Observation/Field experience: 15 clock hours. Three lecture hours a week. Credit: Three hours.

FS 5273. Reflections and Perspectives in Early Childhood. An analysis of contemporary issues and problems in early childhood including investigations of current research, as well as analysis of ethical, political and advocacy teams. Three lecture hours a week. Credit: Three hours.

FS 5283. Technology and the Young Learner. Examination of developmentally appropriate use of technology with all young learners including integration into curriculum areas, environmental considerations, and the use of technology tools for observation, documentation, and communication with families and peers. Observation/Field experience: 15 clock hours. Three lecture hours a week. Credit: Three hours.

FS 5293. Advanced Play Therapy: Theories and Applications. Theories, techniques/methods, applications to special settings or populations, ethics, and professional responsibilities. Includes conference attendance and clinical experience in play therapy. Prerequisite: FS 5163 or equivalent. Three lecture hours a week. Credit: Three hours.

FS 5303. Professional Orientation and Ethics in Counseling. Introduction to the counseling profession and ethics. Examines the characteristics of the effective counselor and the parameters of counseling in a variety of settings, including schools and agencies. Prerequisite: Permission of the instructor. Three lecture hours a week. Credit: Three hours.

FS 5313. Counseling Theory and Practice. General survey of current major theories of counseling and psychotherapy. Content includes historical background, theory of personality, dynamics of client change process, therapeutic techniques, and evaluation. Development of student's own theory of counseling is emphasized. Three lecture hours a week. Credit: Three hours.

FS 5323. Psychological Appraisal of the Individual. Nature and status of psychological testing; in-depth investigation of characteristics and structure of intelligence, achievement, and personality measuring techniques; actual practice in selection, administration, and interpretation of standardized tests. Prerequisite: FS 5303 or permission of instructor. Three lecture hours per week. Credit: Three hours.

FS 5353. Clinical Diagnosis and Treatment Planning for Counselors. Descriptive, research-based, and clinical knowledge for the diagnosis and treatment of mental disorders by counselors. Includes personality disorders and disorders of behavior, impulse control, mood, and anxiety, or loss of contact with reality. Study of the APA Diagnostic and Statistical Manual of Mental Disorders and its use in treatment planning. Three lecture hours a week. Credit: Three hours.

FS 5363. Prepracticum. Experiential and practice of skills, qualities, and decision-making capabilities integrated in the effective intentional counselor. Practice of the techniques of counseling is performed under supervision. Prerequisites: FS 5303, 5313 for Counseling and Development students ;and FS 5003, 5553 or 5563, 5133, 5303, or 6233 for Family Therapy students, and permission of the instructor. Three lecture hours a week and seven lab hours for the semester. Credit: Three hours.

FS 5364. Practicum in Counseling. Professional supervised experience in counseling individuals and groups; supervision of live or videotaped sessions. Prerequisites: FS 5363 and permission of the instructor. Three lecture and ten laboratory hours a week. Credit: Four hours.

FS 5373. Group Counseling Procedures. A study of theories, techniques and procedures in group counseling; development of skills to counsel small groups and conduct developmental group guidance activities in educational settings. Prerequisite: FS 5303, 5313, 5363, or permission of instructor. Credit: Three hours.

FS 5383. Counseling Children and Adolescents. Current theories for counseling children and adolescents; emphasis on practical experiences. Prerequisites: Six graduate hours in counseling, psychology, or family sciences and permission of instructor. Three lecture hours a week. Three lecture hours a week including 10 group hours. Credit: Three hours.

FS 5393. School Guidance and Counseling Services. Various organizational patterns, administrative practices, and functions of modern school counseling and guidance programs; current counseling and assessment techniques; professional and ethical aspects; current issues and trends in school counseling programs. Three lecture hours a week. Credit: Three hours.

FS 5413. Development and Administration of Programs for Young Children. Examination of program needs; principles of management and administration applied to programs for young children. Emphasis on working with advisory boards, developing program goals and objectives, financial and human resources, legal concerns, program evaluation, physical space, and equipment. Three lecture hours a week. Credit: Three hours.

FS 5423. Counseling Women. Detailed study of selected issues in counseling women and current techniques of counseling women. Three lecture hours a week. Credit: Three hours.

FS 5443. Multicultural Counseling. Techniques for counseling minorities. Special consideration is given to counseling needs of Black Americans and Hispanic Americans. Three lecture hours a week. Credit: Three hours.

FS 5453. Counseling for Career Development. Theories, techniques, and procedures for counseling with a focus on career and educational decisions. Three lecture hours a week. Credit: Three hours.

FS 5493. Community Mental Health Counseling. Examination of the historical development, current status and functions of community mental health agencies; role of the counselor and other professionals as well as community related organizations. Three lecture hours a week. Credit: Three hours.

FS 5533. Parenting Education. Examination of parent education methodology (planning, implementation, and evaluation) and content (parent/child relations, guidance, parenting stages, issues, and context). Exploration of related programs and agencies, historical context, and ethical issues. Three lecture hours a week. Credit: Three hours.

FS 5544. Internship in Family Therapy. Professional supervised clinical experience in family therapy with families, couples, and individuals; supervision of live or video-recorded sessions. Prerequisites: FS 5353, 5363, 5553, 5563, 5853, 5883, 6233, and permission of the instructor. To be taken three consecutive semesters. Three lecture and three lab hours per week. Credit: Four hours.

FS 5553. Principles of Marital Therapy. Child problems as an avenue to marital therapy, premarital counseling, relationship assessment, emotional and relationship difficulties of the family. Prerequisite: Permission of instructor. Three lecture hours a week. Credit: Three hours.

FS 5563. Family Therapy I. Basic techniques for family therapy; theoretical basis for the techniques used; application of counseling principles to family situations; child problems as an avenue to family therapy; the family as a unit for therapy. Three lecture hours a week. Credit: Three hours.

FS 5573. Family Crises. Stresses on family systems with emphasis on coping and adaptation strategies. Three lecture hours a week. Credit: Three hours.

FS 5593. Play, Development and the Young Learner. Investigation of play as the cornerstone of the young child's environment and as a foundation for curriculum development. Observation of children's play as well as theoretical applications of observations will be examined. Three lecture and one laboratory hour a week. Credit: Three hours.

FS 5603. Aging in Families and Society. Issues and implications of aging for families and society. Focus on research and policy. Three lecture hours a week. Credit: Three hours.

FS 5613. Child Guidance. Analysis of child guidance and development and research techniques. Emphasis on characteristics and sources of child guidance practices in American culture. Three lecture hours a week. Credit: Three hours.

FS 5623. Occupations and Opportunities. Investigation of occupational trends and theories of occupational choice. Emphasis on implications of career choice for the economy, society, family, and the individual. Three lecture hours a week. Credit: Three hours.

FS 5643. The Development of Infants and Toddlers. Development of the child during the first 24 months of life; special emphasis placed on the active interchange that occurs between infants, toddlers, and the environments in which they develop; programming designed to serve infants, toddlers, and their families included. Three lecture hours a week. Credit: Three hours.

FS 5663. Leadership and Staff Development in Family Sciences Programs. Examination of styles of leadership, communication skills, supervision and motivation of staff, staff development activities and administration of organized services and programs; emphasis on the facilitation of change. Three lecture hours a week. Credit: Three hours.

FS 5693. Research Methods in Family Sciences. Development of foundational knowledge of family sciences research methodology; emphasis on skill in planning and conducting family sciences research projects. Prerequisites: 9 hours of master's level coursework completed. Three lecture hours a week. Credit: Three hours.

FS 5713. Housing and Families. Interdisciplinary approach to current conditions impacting family housing, including economic, social, psychological, and aesthetic aspects. Three lecture hours a week. Credit: Three hours.

FS 5773. Home/School/Community Partnerships. Investigate techniques and strategies for developing and implementing effective home, school, community involvement programs in early childhood settings. Observation/Field experience: 15 clock hours. Three lecture hours a week. Credit: Three hours.

FS 5783. Issues in Early Childhood Research and Evaluation. A practical approach to research and evaluation theory and practice which includes evaluating research articles and evaluation reports, identifying problems or topics for investigation, and synthesizing literature reviews. Quantitative and qualitative methodologies will be compared. Three lecture hours a week. Credit: Three hours.

FS 5803. Time Management for Families. Principles of time management for families; family time; impact of time on families. Three lecture hours a week. Credit: Three hours.

FS 5823. Families and Public Policy. Application of the family perspective to the policy process; research-based formulation and evaluation of public policy; analysis of policy impact on families; advocacy roles of family sciences professionals. Three lecture hours a week. Credit: Three hours.

FS 5833. Family Economics. Economic, sociological, psychological, and cultural factors affecting consumer behavior. Three lecture hours a week. Credit: Three hours.

FS 5843. Teaching Family Sciences. Theories and techniques of program planning, instruction, and evaluation in family sciences settings; emphasis on needs assessment and curriculum development. Three lecture hours a week. Credit: Three hours.

FS 5853. Family Systems. A fundamental introduction to the systems approach to intervention which integrates information regarding the marital, sibling, and individual subsystems, as well as the family of origin and external societal influences. Three hours of classroom lecture. Credit: Three hours.

FS 5883. Family of Origin. Theoretical bases of family of origin work. In-depth examination of the student's own family history and review of concepts and therapeutic techniques used in family of origin education and counseling. Three lecture hours a week. Credit: Three hours.

FS 5894. Internship in Counseling. Professional supervised experience in counseling individuals and groups in an agency or a school setting. Prerequisites: FS 5532, 5542, and permission of the instructor. To be taken in two consecutive semesters. Three hundred clinical field hours per semester. Three lecture hours and three laboratory hours a week. Credit: Four hours.

FS 5903. Special Topics. Organized study of Family Sciences subject matter normally not included in other FS courses. Three lecture hours a week. Credit: Three hours.

FS 5911. Individual Study. Intensive study of a problem of individual or professional interest in family sciences. Credit: One hour.

FS 5913. Individual Study. Intensive study of a problem of individual or professional interest in family sciences. Credit: Three hours.

FS 5933. Practicum in Family Sciences. Professional supervised experience in working directly with children, families or consumers in selected business, institution, or agency appropriate for Family Sciences. Job assignment based on student interests, skills, and degree program. Individual conferences and hours of work to be arranged. Twelve to 15 hours of work a week required. Credit: Three hours.

FS 5943. Special Projects in Family Sciences. Individual study in an area of interest; selection and/or designing of instruments to use in collecting data; review of current research studies related to individual problems. Credit: Three hours.

FS 5961. Research in Family Sciences. Individual investigation of a specific area in Family Sciences. Credit: One hour.

FS 5963. Research in Family Sciences. Individual investigation of a specific area in Family Sciences. Credit: Three hours.

FS 5973. Professional Paper. Development and implementation of individual project designed to meet unresolved problem in an area of interest. Presentation and defense of project. Credit: Three hours. (Limit six hours of credit.)

FS 5981. The Professional Portfolio. Development of a professional portfolio by students in the Master of Arts in Teaching program demonstrating the student's growth in the Learner-Centered Competencies. Pass-fail grade only. May be repeated. Credit: One hour.

FS 5983. Thesis. Credit: Three hours.

FS 5993. Thesis. Prerequisite: FS 5983. Credit: Three hours.

FS 6003. Advanced Study of the Lifespan. The developmental process as it occurs during the life cycle and implications for the family; relationship of the developmental process to relevant issues in family sciences. Three lecture hours a week. Credit: Three hours.

FS 6233. Issues and Ethics in Professional Development. An examination of the major issues for professionals in family therapy; emphasis on legal and ethical standards, professional identity, and private practice issues; examination of the legal/therapeutic interface as it directly impacts practice. Three lecture hours a week. Credit: Three hours.

FS 6243. Theories and Strategies for Intervention in Family Therapy. Examination of major strategies for intervening to change interaction within families and other intimate relationships; presentation of change techniques from a systemic perspective; emphasis on current intervention strategies that are ecological in nature. Three lecture hours a week. Credit: Three hours.

FS 6253. Supervision in Family Therapy. Techniques in family therapy supervision, including both didactic and interactional components. Prerequisite: Permission of instructor. Three lecture hours a week. Credit: Three hours.

FS 6303. Academic Life and Scholarship. Higher education culture from the perspective of a professor; university operations, including admissions, recruitment, university development, and funding sources; philosophies of teaching, research, and service; student characteristics and learning styles; university tenure and promotion issues; and professional identity. Three lecture hours a week. Credit: Three hours.

FS 6323. Health, Illness, and Families. Focus on the macro and micro systemic interactions in families dealing with the health/illness continuum and with the mental/physical health care systems. Three lecture hours a week. Credit: Three hours.

FS 6333. Effective Online Teaching. Effective online education and learning standards, principles, research, and course design and delivery; developing an effective online course, including hybrid models; best practices for teaching online; and strategies for assessing the quality online education. Open to all majors. Three lecture hours a week. Credit: Three hours.

FS 6403. Theory Building in Family Sciences. Foundational elements of theories and models of theories in family sciences; the relationship between theories, models, concepts, and the design and implementation of research in family sciences. Three lecture hours a week. Credit: Three hours.

FS 6413. Current Research and Issues in Family Sciences. Current research and issues in family sciences; emphasis on conceptual and theoretical frameworks in guiding research design and critical analysis of recent literature in family sciences. Three lecture hours a week. Credit: Three hours.

FS 6423. Readings in Family Sciences. Critical review of current and classical research and other literature concerned with issues and concepts of family sciences. Three lecture hours a week. Credit: Three hours.

FS 6433. Grants Writing in Family Sciences. Study of available funding sources for human services programs; developing skills for requesting funds for an organization or agency; review and evaluation procedures. Three lecture hours a week. Credit: Three hours.

FS 6513. Language and Cognitive Development in Young Children. Origins and development of language; cognition as a function of language, stages, and environment; interrelationships of language and cognitive development. Three lecture hours a week. Credit: Three hours.

FS 6544. Internship in Family Therapy. Professional supervised clinical experience in family therapy with families, couples, and individuals; supervision of live or video-recorded sessions. Prerequisites: FS 5353, 5363, 5553, 5563, 5853, 5883 (or the equivalents). 6233 and permission of the instructor. To be taken four consecutive semesters. Three lecture and three lab hours a week. Credit: Four hours.

FS 6563. Family Therapy II. Continuation of family therapy theory development; overview of systemic therapies including MRI, Milan, reflecting team, contextual, language systems, and brief therapy models. Three lecture hours a week. Credit: Three hours.

FS 6593. Practicum in Family Sciences. Professional supervised experience in working directly with children, families, or consumers in selected business, institution, or agency appropriate for Family Sciences. Job assignment based on student interests, skills, and degree program. Individual conferences and work hours to be arranged. Twelve to 15 hours of work a week. Credit: Three hours.

FS 6623. Social and Cultural Dimensions of Early Language Development. Analysis of psycholinguistic and sociolinguistic research in early childhood language development; determination of patterns of language use in early childhood classes focused on the understanding of the literacy processes embedded in social practices; methods for continuing language growth in the classroom based on the demonstrated processes of language development. Three lecture hours a week. Credit: Three hours.

FS 6653. Seminar in Developmental Theory. An analysis and integration of theories and research on development in the early childhood and middle school years. Three lecture hours a week. Credit: Three hours.

FS 6663. Foundations in Early Childhood Education. Historical, philosophical, sociological, physical, and psychological bases for understanding and implementing programs of early childhood education. Prerequisite: Six hours of child development or permission of instructor. Three lecture hours a week. Credit: Three hours.

FS 6673. Advanced Seminar in Early Childhood Education. Variable content. Opportunity for doctoral candidates to receive constructive criticism of their proposals and analytical help in the areas of research and complementary content to their major work. Prerequisite: Nine hours of doctoral credit. Three lecture hours a week. Credit: Three hours.

FS 6683. Professional Seminar in Family Sciences. Development as a professional in Family Sciences demonstrated through teaching, research, and writing. Three lecture hours a week. Credit: Three hours.

FS 6693. Advanced Quantitative Research Methods in Family Sciences. Advanced quantitative research design and its application in family sciences; analysis and evaluation of quantitative research; data interpretation; emphasis on hypotheses, variables, ethics, instrumentation, sampling, reliability, and validity; preparation of a quantitative research plan. Prerequisites: A master's level research methods course and a graduate-level statistics course. Three lecture hours a week. Credit: Three hours.

FS 6793. Advanced Qualitative Research Methods in Family Science. Advanced qualitative research design and its application in family sciences; analysis and evaluation of qualitative research; data collection and interpretation; emphasis on research questions and ethical issues; preparation of a qualitative research plan. Prerequisites: A master's level research methods course. Three lecture hours a week. Credit: Three hours.

FS 6863. Family Financial Counseling. Examination of relationship between financial needs and family dynamics. Develop skills in assisting families with financial problems through family education and counseling. Three lecture hours a week. Credit: Three hours.

FS 6873. Applied Multivariate Statistics for Family Sciences. Influence of multiple variables upon each other; procedures for multivariate statistics such as multiple regression, covariance, discriminant function analysis in family sciences research; using SPSS for multivariate analysis; evaluation of the influence of research design and statistical methods on research hypotheses and conclusions. Prerequisite: Graduate-level statistics course. Three lecture hours per week. Credit: Three hours.

FS 6903. Special Topics. Three lecture hours a week. Credit: Three hours.

FS 6911. Individual Study. Intensive study of a problem of individual or professional interest in family sciences. Credit: One hour.

FS 6913. Individual Study. Intensive study of a problem of individual or professional interest in family sciences. Credit: Three hours.

FS 6921. Research in Family Sciences. Individual investigation of a specific area in family sciences. Credit: One hour.

FS 6923. Research in Family Sciences. Individual investigation of a specific area in family sciences. Credit: Three hours.

FS 6941. Resources in Family Sciences. Individual study; collection of data in an individual situation, school, and/or community for a terminal problem in one semester or for a research study to be continued. Credit: One hour.

FS 6943. Resources in Family Sciences. Individual study; collection of data in an individual situation, school, and/or community for a terminal problem in one semester or for a research study to be continued. Credit: Three hours.

FS 6983. Dissertation. Credit: Three hours.

FS 6993. Dissertation. Prerequisite: FS 6983. Credit: Three hours.

Department of Reading

Interim Chair: Connie Briggs, Professor

Location: MCL 907

Phone: 940-898-2227

Fax: 940-898-2224

E-mail: reading@mail.twu.edu

Website: www.twu.edu/reading/

*Faculty: Professors L. Albright, N. Anderson, C. Briggs, A. Simpson, N. White;
Associate Professors C. Haag, Y. Rodriguez, P. Watson.*

Graduate Degrees Offered

M.A., M.Ed., Ph.D., Ed.D. in Reading Education. Coursework leads to certification as All-Level Reading Specialist and/or Master Reading Teacher.

Information on the Master of Arts in Teaching can be found under the College of Professional Education.

The principal objectives of the department are to provide professional development in literacy for teachers and educators, with emphases on advanced graduate training in literacy. The department also provides specialized study at the doctoral level in reading, with emphasis on the study and practice of research in selected areas of literacy from early childhood through adult years. A major goal of all graduate programs is to develop leadership potential and skills for graduates of these programs and to encourage effective teaching practice in all areas of public schools and at the college level. At all levels of study, the interrelationships of theory and practice are valued, as students are led to develop theory and new knowledge leading to integration of research and teaching. The department also offers services to teachers, schools, parents, and the community in the form of courses, programs of study, and expert consultation and advice on literacy teaching and learning.

The doctoral program in reading prepares educators and researchers for specialized work in literacy at all levels of education. The program responds to the recognition of the value of literacy and contributes to its development in diverse social contexts, from local school districts to universities in the United States and abroad.

Admission Requirements

Please see the admission section at the front of this catalog. Contact the department for current requirements and application procedures. In addition to these general requirements, the Department of Reading requires certification of proficiency in reading, writing, and speaking English for unconditional admission

to all master's and doctoral degree programs. This proficiency must be certified to the advisor within the period of the first 12 semester hours, or its equivalent, of course work taken at Texas Woman's University toward the degree.

Admission to the master's and doctoral programs in reading education is a two-step process. Each applicant first must apply to and meet the general admission requirements of the graduate school.

After meeting the general university admission standards, each student's application is reviewed by the Reading Education Admissions Committee made up of faculty members. Applicants must satisfy program admission requirements (available from department).

General Requirements for All Master's Degrees

Total Hours Required: 36 to 39 hours, including 6 hours for thesis (M.A.), or 3 hours for professional paper (M.Ed.) or seminar in literacy research (M.Ed.).

Major: 27-30 hours

Children's literature: 3 hours

Focus area: 6 hours, subject to advisor's approval

Final Examination: Oral defense, covering the thesis or professional portfolio.

No grade below a 'B' is accepted toward the master's degree.

General Requirements for All Doctoral Degrees

Total Hours Required: A minimum of 90 hours post-baccalaureate or 66-72 hours post master's degree, including 12 hours of dissertation.

Reading Core: 18 hours

Minor and/or Related Area: 12-15 hours. Adjusted to meet needs of each student's program.

Research Tools: All doctoral candidates must complete 6 hours of graduate-level course work in statistics. In addition, Ph.D. students are required to take 9 hours of advanced research. The advanced research requirement can be met by either nine hours of advanced research or six hours of advanced research and three hours of computer science.

For students holding the master's degree, a minimum of 60 hours beyond the master's is required plus satisfaction of the research tools requirement for the Ph.D. Based on a review of the preparation of each entering student, additional courses may be required. No grade below a 'B' is accepted toward the doctoral degree.

1. The following specific degree requirements must be completed for the Ph.D.
 Major in Reading: 18 hours
 Minor: 12-15 hours
 Elective (subject to approval): 12-15 hours
 Dissertation: 12 hours
 Research Tools (includes 6 hours of statistics): 15 hours
 Statistics: 6 hours
(Ph.D. and Ed.D. students are required to complete an inquiry-based apprenticeship.)
2. Students must take a minimum of 12 hours outside the Department of Reading.
3. To complete the integrated core curriculum of the doctoral program in reading education, the student must take the following four courses.

READ 6533	Foundations of Reading: Physiological and Psychological Dimensions
READ 6563	Nature of Literary in the Adolescent Years
READ 6573	Reading as Related to Language
READ 6913	Literacy Leadership and Policy
4. The required elective courses in reading can be satisfied by completing two doctoral-level courses approved by advisor from the following:

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 6543	Theoretical Foundations: Early Literacy and Early Intervention
READ 6583	Research in Reading
READ 6593	Advanced Reading Research Design: Analysis and Evaluation
READ 6663	Practicum
READ 6673	Theoretical Foundations in Language and Literacy
READ 6683	Doctoral Seminar in Reading
READ 6743	Clinical Practicum in Early Literacy Leadership
READ 6753	Advanced Clinical Practicum in Early Literacy Leadership
READ 6903	Special Topics
READ 6911- 6913	Independent Study
5. Students have 10 years to complete the program. No course work beyond the master's degree that is more than 10 years old at the time the doctoral degree is conferred can be used toward the doctoral degree.

6. The student must successfully complete the written qualifying examination prepared by the Doctoral Committee which consists of two members of the reading faculty and one from the minor area of study. The two-day examination will consist of one and one-half days of written work in the major and a half day in the minor.
7. The student must successfully develop a dissertation proposal, defend the proposal, and successfully complete and defend the proposed research.

Certification Programs Offered in Reading

Certificates are awarded by the State Board for Educator Certification.

Masters coursework leads to certification as an All-Level (EC-12) Reading Specialist. This certificate requires previous teaching certification and, at the time of completion, a master's degree and two years' classroom teaching experience. In addition, students must successfully complete the appropriate certification exam and related requirements.

Coursework also leads to the Master Reading Teacher (MRT) certificate. This certificate requires previous certification, three years' teaching experience, completion of required coursework, and passing MRT exam. Courses taken for MRT certification can be applied to master's degrees in the department.

Master's courses taken at the post-baccalaureate level to satisfy the professional development requirements leading to initial teacher certification (excluding student teaching) may be applied to a master's degree in the department, subject to department approval. Professional-level certification and endorsements may be coordinated with most master's and doctoral degrees in the department, depending on advisory committee approval.

Minors Offered to Students from Other Departments

Minors are available in many areas for master's and doctoral students. Contact department for details.

Courses of Instruction in Reading

READ 5023. Literacy Development I: Grades EC-4. For post-baccalaureate students in emergency or alternative certification programs. Includes planning and organizing for instruction and assessment in oral language, phonological and phonemic awareness, and word analysis for children in grades ED-4; practice-based activities. May be graded on a Credit (CR) or No-Credit basis. Three lecture hours a week. Credit: Three hours.

READ 5043. Literacy Development I: Grades 4-8. For post-baccalaureate students in emergency or alternative certification programs. Includes planning and organizing for instruction and assessment in oral language, vocabulary, and word analysis skills for learners in grades 4-8; processes of literacy development from EC-8; practice-based activities. May be graded on a Credit (CR) or No-Credit basis. Three lecture hours a week. Credit: Three hours.

READ 5063. Literacy Teaching and Learning in Secondary Grades: Practice and Theory I. For post-baccalaureate students in emergency or alternative certification programs. Includes planning and implementing instruction and assessment in literacy development, reading strategies, and language processes; related instructional materials, practices, and research; practice-based activities. May be graded on a Credit (CR) or No-Credit basis. Three lecture hours a week. Credit: Three hours.

READ 5073. Literacy Teaching and Learning in Secondary Grades: Practice and Theory II. For post-baccalaureate students in emergency or alternative certification programs. Includes planning and implementing instruction and assessment in literacy development and written, oral, and media communication; related standards, instructional materials, practices, and research; practice-based activities. May be graded on a Credit (CR) or No-Credit basis. Prerequisite: READ 5063. Three lecture hours a week. Credit: Three hours.

READ 5413. Literacy Coaching: Theory & Practice. Theoretical components essential for effective literacy coaching practices. Application of coaching practices utilizing video-taped coaching triads. Analysis and reflection of coaching triads. Models for site-based professional learning, collaboration and co-teaching. Three lecture hours a week. Credit: Three hours.

READ 5423. Literacy: Practice to Theory. Theories, issues, and practices in teaching literacy from early childhood through high school. Understanding and construction of literacy theory and processes in relation to practice; observing learners; informed decision making based on formal and informal assessments; addressing the needs of all learners including second language learners. Field experience required. This course is a prerequisite for all reading courses. Three lecture hours a week. Credit: Three hours.

READ 5443. Literacy Assessment and Instruction. Instruction, analysis and application of research based formal and informal literacy assessments; use of assessments to guide responsive instruction; ability to communicate outcomes and standards to various audiences. Field experience required. Prerequisite: READ 5423. Three lecture hours a week. Credit: Three hours.

READ 5453. Processes and Strategies for Comprehending Texts. Theories and practices related to literacies across a variety of print and non-print texts and genres. Focus on providing optimal environments for comprehension and interpretation of texts and on developing students' independent uses of strategies for engaging with these texts. Field experience required. Prerequisite: READ 5423. Three lecture hours a week. Credit: Three hours.

READ 5463. Practicum in Literacy: Analysis of Teaching and Mentoring. Clinical experiences in classrooms, small group and individual instruction; diagnosis, analysis and teaching utilizing assessment data and research based practices; application of mentoring and coaching strategies for collaborating with professional colleagues and parents. Field experience required. Prerequisites: READ 5423, 5443 and 5503. One lecture and five practicum hours a week. Credit: Three hours.

READ 5473. Early Detection in Reading. Focus on the administration and interpretation of Marie Clay's Diagnostic Survey and intervention procedures that will support the at-risk beginning reader. In addition to observing children and teachers interacting behind a one-way glass, all enrolled in the course will work with four children while learning procedures. Prerequisite: Permission of instructor. Credit: Three hours.

READ 5483. Early Intervention in Reading. Focus on the refinement of procedures used with at-risk beginning readers. Attention will be directed to teacher decision-making while working with four children. All enrolled in the course will be involved in teaching and observing children behind a one-way glass. Prerequisite: Permission of instructor. Credit: Three hours.

READ 5493. Research in Literacy: Responsive Action in Schools. Critical reading, evaluation and design of research in literacy; understanding of research trends in literacy; effective communication of research for decision-making in literacy at the program-level. Prerequisites: READ 5423, admission to graduate program, and completion of at least 15 graduate hours in reading. Three lecture hours a week. Credit: Three hours.

READ 5503. Phonological and Orthographic Language Systems in Literacy Learning. Focuses on language processes, including phonological and orthographic language systems related to literacy development. Research and theory related to letters, sounds and their relationship, word analysis, and spelling will be used to critique and evaluate reading programs and design customized assessment and instruction. Field experience required. Prerequisite: READ 5423. Three lecture hours a week. Credit: Three hours.

READ 5513. Literacy and the Diverse Learner. Theories, issues, and practices of literacy instruction in various academic settings for EC-12 learners of diverse linguistic, cultural, economic, and academic backgrounds. Field experience required. Prerequisite: READ 5423. Three lecture hours a week. Credit: Three hours.

READ 5523. Supervision and the Teaching of Reading. Problems in improvement of reading instruction; studies in organization and implementation of reading programs. Three lecture hours a week. Credit: Three hours.

READ 5533. Foundations of Early Literacy. A course focusing on literacy teaching and learning in the early grades. Emphasis on reading, writing, and oral language. Attention to observation and assessment, appropriate selection and use of books and materials. Organization and management, ways of teaching that support children in building strong processing systems in reading and writing, etc. Three lecture hours a week. Credit: Three hours.

READ 5543. Literacy in the Content Areas. Rationale and principles for understanding the role of literacy in all content-area subjects; theoretical and research-driven issues, strategies, and methods related to literacy in all content areas. Three lecture hours a week. Credit: Three hours.

READ 5553. Reading Strategies for Struggling Intermediate – Middle School Readers. Research-based instructional practices for struggling literacy learners in intermediate and middle school; literacy learning theory, research related

to literacy acquisition, and well developed curriculum, instruction, and assessments. Three lecture hours a week. Credit: Three hours.

READ 5603. Intensive Teaching in Early Literacy Intervention. Intense and precise observation, analysis, and teaching of individual/diverse learners; change over time in individuals having extreme difficulty in literacy learning. Requires individual teaching of students identified for special education services and teaching children behind a one-way glass. Three lecture hours a week. Prerequisites: READ 5473 and 5483. Credit: Three hours.

READ 5901. Special Topics. Variable content. Prerequisite: Permission of instructor. One lecture hour per week. Credit: One hour.

READ 5903. Special Topics. Variable content. Prerequisite: Permission of instructor. Three lecture hours per week. Credit: Three hours.

READ 5911. Individual Study. Individual study of specific problems. Prerequisite: Permission of instructor. Credit: One hour.

READ 5913. Individual Study. Individual study of specific problems. Prerequisite: Permission of instructor. Credit: Three hours.

READ 5963. Seminar In Literacy Research. Completion and presentation of research based professional portfolio; development of professional goals; development and implementation of professional research-based presentations. Prerequisite: Completion of all master's coursework. Credit: Three hours.

READ 5973. Professional Paper. Students maintain continuous registration while actively working on master's paper. Credit: Three hours. Credit limited to six hours total.

READ 5981. The Professional Portfolio. Development of a professional portfolio by students in the Master of Arts in Teaching program demonstrating the student's growth in the Learner-Centered Competencies. Pass-fail grade only. May be repeated. Credit: One hour.

READ 5983. Thesis. Credit: Three hours.

READ 5993. Thesis. Prerequisite: READ 5983. Credit: Three hours.

READ 6483. Qualitative Research. Theories and methods of qualitative research conducted in social settings. Prerequisite: doctoral level graduate status. Three lecture hours per week. Credit: Three hours.

READ 6493. Advanced Qualitative Research Design and Analysis. Advanced methods of qualitative research design, collection and analysis of data gathered in social settings. Prerequisite: Graduate introductory level qualitative research course. Three lecture hours a week. Credit: Three hours.

READ 6513. Observing and Responding to Young Readers. Focus on the systematic and controlled observation of young children using a series of diagnostic survey instruments. Additional content emphasis includes the teacher's role in responding to emerging readers, based on actual observations of literacy behaviors and theoretical literacy perspectives. Credit: Three hours.

READ 6523. Early Literacy Intervention. Focus on the procedure for working with emerging at-risk readers and writers. The course content is based on strategies children need to be independent readers and writers. Course content

and presentation reflect a highly-theoretical teacher decision making model based on actual observation of teacher-child interactions. Credit: Three hours.

READ 6533. Foundations for Reading: Physiological and Psychological Dimensions. Critical examination of scientific studies and theories related to the physiological and psychological aspects of the reading act, analysis of facilitating and inhibiting factors in early reading development and appraisals of approaches to teaching beginning reading in relation to this analysis. Prerequisite: Three to six hours of graduate study in reading and child development or permission of instructor. Three lecture hours a week. Credit: Three hours. (Fall Semester)

READ 6543. Theoretical Foundations: Early Literacy and Early Intervention. A course for Reading Recovery teacher leaders-in-training focusing on the underlying theories of early literacy acquisition (including processes related to reading, writing, and oral language) and the underlying theories of prevention of reading difficulties through early intervention. Three lecture hours a week. Credit: Three hours.

READ 6563. The Nature of Literacy in the Adolescent Years. Examination of the expanding body of research, policy, history, and underlying theories of “adolescent literacy”; implementation of research findings in instruction; consideration of adolescent engagement in situated literacies involving new multi-literacies; influences of social, cultural linguistic, and historical factors.. Credit: Three hours.

READ 6573. Reading as Related to Language. Exploration of contributions and research of linguists, sociolinguists, psycholinguists, and psychologists to the teaching of reading; examination of role of language in reading process including the social and cultural foundations of language use. Prerequisites: READ 6533 or permission of instructor. Three lecture hours a week. Credit: Three hours. (Spring semester.)

READ 6583. Research in Reading. Description of methods and techniques employed in reading research; critiquing significant research and developing appropriate designs to study research topics. Prerequisites: Twelve to 15 graduate hours in reading, six hours of statistics, or permission of instructor. Three lecture hours a week. Credit: Three hours. (Summer).

READ 6593. Advanced Reading Research Design: Analysis and Evaluation. Methods of inquiry about the reading process: teaching, learning, proposal development. Prerequisites: Fifteen hours of graduate study in reading including READ 6583, six hours of statistics, or permission of instructor. Three lecture hours a week. Credit: Three hours. (Summer).

READ 6663. Practicum. Registration in the areas of reading, kindergarten and/or early childhood teaching or by field placement in an administrative or supervisory setting. Type of placement will vary with student’s area of major concentration and past experience. Prerequisite: Nine hours of doctoral credit or permission of instructor. Credit: Three to nine hours.

READ 6673. Theoretical Foundations in Language and Literacy. Analysis of theories that contribute to early reading and writing; application of principles of systematic observation of oral and written language development and the relationship

to early school literacy; and examination of literacy processes found in effective early literacy intervention. Three lecture hours a week. Credit: Three hours.

READ 6683. Doctoral Seminar in Reading. Variable content. In depth examination of research relevant to topics. Prerequisites: three to six graduate hours in reading or permission of instructor. Three lecture hours a week. Credit: Three hours. May be repeated for up to 12 hours' credit with permission of student's advisor.

READ 6743. Clinical Practicum in Early Literacy Leadership. Theories and practices related to early literacy and early intervention. Principles of early literacy, implementation of early literacy intervention in schools and systems, teaching adult learners, and using data to monitor early literacy and early intervention. Field work in schools required. Three lecture hours a week. Credit: Three hours.

READ 6753. Advanced Clinical Practicum in Early Literacy Leadership. Application of expertise in early literacy and early intervention leadership. Participation in the implementation of early literacy teacher courses and early intervention in schools and systems, teaching adult learners, and use of data to refine and evaluate implementation. Field work in schools required. Three lecture hours a week. Prerequisite: READ 6743. Credit: Three hours.

READ 6903. Special Topics. Variable content. Prerequisite: Permission of instructor. Credit: Three hours.

READ 6911. Independent Study. Variable content. Individual research relating to a problem of professional interest and significance. Prerequisites: Permission of instructor and post-master's standing. Credit: One hour. May be repeated for up to 12 hours' credit with permission of student's advisor.

READ 6913. Independent Study. Variable content. Individual research relating to a problem of professional interest and significance. Prerequisites: Permission of instructor and post-master's standing. Credit: Three hours. May be repeated for up to 12 hours' credit with permission of student's advisor.

READ 6983. Dissertation. Credit: Three hours. May be repeated for up to six hours' credit.

READ 6993. Dissertation. Credit: Three hours. May be repeated for up to six hours' credit.

Department of Teacher Education

Chair: Jane Pemberton, Professor

Location: SH 108

Phone: 940-898-2271

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Website: www.twu.edu/teacher-education/

Faculty: Professors J. Barbour, M. Cowart, J. Pemberton, L. Restine, J. Whitworth, M. Wiebe; Associate Professors G. Anderson, K. Dunlap, H. Hansen-Thomas, B. Lerner, P. Malone, J. Piro, C. Sanchez; Assistant Professors D. Allen, R. Fredrickson, H. Haynes, S. McMahan, L. Sourdoot, T. Starrett, L. Trujillo-Jenks.

Graduate Degrees Offered

M.A., M.Ed. in Administration

M.A., M.Ed. in Special Education

M.A., M.Ed. in Teaching, Learning, and Curriculum

Ph.D. in Special Education (In cooperation with the Federation of North Texas Area Universities.)

Graduate Certificates Offered

Post-baccalaureate Certificate in Leadership in Education and Sport

Post-master's Certificate of Advanced Study-Bilingual Educational

Diagnostician

Post-master's Certificate of Advanced Study-Educational Diagnostician

Post-master's Certificate of Advanced Study-Principal

Post-master's Certificate of Advanced Study-Superintendent

The Department of Teacher Education provides education coursework as part of the Master of Arts in Teaching (M.A.T.) degree. This program is designed to prepare students with a bachelor's degree for initial teacher certification while leading to a master's degree. The M.A.T. meets the teacher certification standards outlined by the State Board for Educator Certification (SBEC). Further information and application procedures may be found on the TWU website.

The Department of Teacher Education is comprised of four program areas: Bilingual and English as a Second Language (ESL), Educational Administration, Curriculum & Instruction, and Special Education.

Admission Requirements for Department of Teacher Education Programs

Admission to graduate programs in the Department of Teacher Education (academic degree, certification, and advanced study) is based upon a thoughtful and holistic review of applicant materials and appraisal of applicant qualifications. The process begins with application to the TWU Graduate School. When applications to the Graduate School are complete and processed, applications are then forwarded to the Department of Teacher Education for review and recommendation. In addition to information required by the TWU Graduate School, applicants must complete and submit additional materials required by the department. This information and timelines for submission of application materials may be accessed on the Graduate School and Department of Teacher Education websites.

Bilingual and ESL Education

Programs leading to additional certification by the State Board for Educator Certification (SBEC) in Bilingual Education and ESL are offered through the department. Further information may be found on the Department of Teacher Education and Office of Student Support websites.

Educational Administration

The TWU graduate program in Educational Administration is preparing leaders for 21st century challenges in a society that is culturally diverse, fast paced, and information rich. TWU graduates respect differences, celebrate diversity, and demonstrate the requisite skills, knowledge and dispositions necessary for effective leadership, all of which are integrated in the Educational Administration Program.

Students acquire knowledge and sharpen skills in educational leadership and administration through courses in school law, curriculum and instruction, educational foundations, human resources development and administrative internships. Classes include a variety of delivery options including fully online, blended and face-to-face.

Admission Requirements for Programs in Educational Administration

Admission to degree, certification, and graduate certificate programs in Educational Administration begins with application to the Graduate School. When applications to the Graduate School are processed and complete, applications are then forwarded to academic departments for review and recommendation. In addition to information required by the TWU Graduate School, applicants must complete and submit additional materials required by the Department of Teacher Education and the Educational Administration Program. Information and timelines for submission of application materials may be accessed on the Graduate School and Department

of Teacher Education websites. Decisions about admission are made based upon a thoughtful and holistic review of applicant materials and appraisal of applicant qualifications.

General Requirements for the M.Ed. and M.A. in Administration

The M.Ed. degree requires completion of a minimum of 36 hours of coursework. The M.Ed. degree program is composed of 24 hours of coursework in educational leadership and administration, 3 hours of research methods, 3 hours of professional paper or applied research project, 3 hours of internship, and 3 hours of advisor approved electives. The M.A. degree program is composed of 18 to 24 hours of coursework in educational leadership and administration, 3 hours of research methods, 6 hours of thesis, 3 hours of internship, and 3 hours of advisor approved electives. Further information and degree program plans of study can be located through the Department of Teacher Education websites.

Certification Programs

The Department of Teacher Education and the Educational Administration Program offer coursework leading to recommendation for Texas Principal Certification. To obtain a recommendation for certification through Texas Woman's University, an individual must have a master's degree (preferably in education or an education-related field), a valid Texas teaching certificate, three years of teaching experience, and completion of coursework on a plan of study leading to certification. After being admitted to the Graduate School and the Educational Administration Program, the certification candidate must meet with his or her faculty advisor to complete a plan of study. The number of credit hours required and specific coursework varies with respect to applicants' academic preparation and experience. Further information about certification program plans of study, requirements for the TExES examination and recommendation for Probationary Certification can be located through the Department of Teacher Education websites.

The Department of Teacher Education and the Educational Administration Program offers coursework leading to recommendation for Texas Superintendent Certification. To obtain a recommendation for certification through Texas Woman's University, an individual must have a master's degree (preferably in education or an education-related field), a valid Texas teaching certificate, a valid Texas Principal or Mid-management Administrator certificate, three years of teaching experience (preferred) and school-site or school district leadership experience, and completion of coursework on the plan of study. After being admitted to the Graduate School and the Educational Administration Program, the certification candidate must meet with his or her faculty advisor to complete a plan of study. The number of credit hours required and specific coursework varies with respect to applicants' academic preparation and experience. Further information about certification program plans of study, requirements for the TExES examination and recommendation for certification can be located through the Department of Teacher Education websites.

Post-Baccalaureate Certificate in Leadership in Education and Sport (CLES)

In collaboration with the Department of Kinesiology and Educational Administration, students may earn a graduate certificate in Leadership in Education and Sport. Upon completion of the certificate, the candidate may apply, with advisor approval, the hours toward a master's degree.

Certification coursework may be used as a minor area of emphasis for candidates in the Doctor of Philosophy (Ph.D.) in Special Education program and other TWU academic programs.

Curriculum & Instruction

The Curriculum & Instruction Program offers graduate level coursework for individuals seeking initial Texas teacher certification through the post-baccalaureate teacher certification program as well as through the Master of Arts in Teaching (M.A.T.) degree. The M.A.T. is a university-wide degree designed to combine certification requirements with a content area specialization.

The Curriculum and Instruction program also offers the M.Ed. degree in Teaching, Learning, and Curriculum. It requires 36 semester hours which include 6 hours of research, a 12 hour core of courses, and 18 hours of coursework in one or more strands related to diverse populations, curriculum, and various content areas. One strand emphasizes Bilingual Education and English as a Second Language (ESL). Courses taken in these areas may lead to fulfilling requirements for additional certification. An M.A. degree is also available in Teaching, Learning, and Curriculum and requires the preparation of a thesis.

Admission Requirements

Further information about post-baccalaureate teacher certification programs or the M.A.T. may be obtained by contacting the Office of Student Support Services in the College of Professional Education. Admission to the master's programs in Teaching, Learning, and Curriculum begins with an application to the TWU Graduate School and is based on several factors including an earned bachelor's degree from an accredited institution of higher education, and GPA of 3.0 or higher on at least the last 60 semester hours of study. Typically, students should have a valid teaching certification. Application policies and procedures for the Department of Teacher Education may be accessed on the website.

Special Education

The Special Education Program offers advanced degrees that allow individuals to enhance their knowledge of research in special education, acquire knowledge and expertise in working with individuals with disabilities and become master teachers. Graduate programs are individualized to meet the career needs and interests

of students. Students may study the general field of special education or specialize in assessment, emotional disturbance, learning disabilities, or intellectual/developmental disabilities.

Students may take coursework leading to Educational Diagnostician Certification. Certificates are awarded by the State Board for Educator Certification; contact the Department for current information about Texas certificates.

Admission Requirements for M.Ed. or M.A. in Special Education

Admission to any Special Education graduate degree program is based on a holistic evaluation of several factors including an earned bachelor's degree from an accredited institution of higher education and a GPA of 3.0 for the last 60 hours of undergraduate study. Typically, students should have a valid teaching certification. See the Teacher Education/Special Education website for specific admission criteria.

Students who seek post-baccalaureate special education teacher certification must have an undergraduate GPA of 2.5 overall and 3.0 on the last 60 hours along with required scores on one of the following tests: Texas Higher Education Assessment (THEA), Accuplacer, SAT or ACT (SAT and ACT scores must be within the past five years). Additional information is available through the Office of Student Support Services or their website.

General Requirements for M.Ed. or M.A. in Special Education

The M.Ed. requires a minimum of 36 hours: 6 hours of research which includes a professional paper, 15 hours of special education core courses, and 12 hours of coursework that will constitute a specialization area in the field of Special Education and 3 to 6 hours of electives. The M.A. is also available and requires 6 hours of research and a thesis. All students must complete an oral final examination. See the Teacher Education/Special Education website for more information.

Ph.D. in Special Education

The Ph.D. in Special Education is offered as a cooperative program between the University of North Texas and Texas Woman's University under guidelines established by the Federation of North Texas Area Universities. The program enables students to utilize the combined faculty, library, computer facilities and research opportunities available at both universities in the development of their doctoral studies.

The federation doctoral program provides opportunities for formal course work, seminars, independent study, participation in regional and national conferences, and dissertation research. The program also includes federation-sponsored seminars featuring outstanding nationally and internationally recognized educators.

Given the importance of appropriate educational experiences during the early years for both the individual and the society at large, graduate programs are needed that provide education for future leaders in the conceptualization and provision of

special education programs as well as expertise in conducting research that will extend understanding of the importance and means of providing special education experiences. The purpose of the federated doctoral program in special education is to prepare professional educators to assume leadership roles in higher education and EC-12 educational settings. Graduates are prepared to assume diverse roles including teaching, research and administrative responsibilities.

Students initially apply for admission to the graduate school of one of the participating universities. Admission is based on a holistic evaluation of a variety of factors. Refer to the Teacher Education/Special Education website for details. Each student's application is reviewed by the Special Education Federation Admissions Committee composed of faculty from both TWU and UNT. Students who graduate from the federation program will receive the Ph.D. from the university through which they entered the program.

Program Faculty

The doctoral program is staffed by faculty from both Texas Woman's University and the University of North Texas.

The policies of the doctoral program are guided by committees made up of faculty from both of the participating institutions. The policies must be consistent with the policies of both participating universities.

Admission Requirements for Ph.D.

For specific and current information please see the admission section at the front of this catalog and the Ph.D. Handbook on Teacher Education/Special Education website.

Admission to the doctoral program in special education takes into consideration several factors deemed as important for success in graduate studies. No single factor determines an individual's eligibility for admission.

Admission to the federation doctoral program in special education is a two-step process. Applicants must first apply to and meet the general admission requirements of either the Graduate School at TWU or the School of Graduate Studies at UNT. Students should apply to the school that best meets their research and career objective.

Applications for students who meet initial admission standards are forwarded to the Special Education Federation Admission Committee for review. Acceptance into the federation doctoral program is contingent upon the applicant meeting the following program admission standards.

General Requirements for Doctoral Degree

Total Hours Required: A minimum of 90 hours above baccalaureate, including 6-12 hours for dissertation.

Major/Emphasis: Requirements will depend upon individual student's needs.

Research Tools: For the Ph.D., computer language, or reading knowledge of one foreign language and advanced proficiency in statistics and research methodology.

Residence Requirement: Two semesters of mentorship under a TWU Special Education faculty member replaces the residency requirement.

Qualifying Examination: A comprehensive written examination encompassing knowledge common to the doctoral degree program is required. Sections which are failed may be retaken one time after six months.

Final Examination: Oral and/or written examination covering knowledge of course work and defense of dissertation. May be taken two times only.

The Special Education Ph.D. Handbook, found on the Department of Teacher Education/Special Education website provides specific information about the application process, admission process, and requirements leading to doctoral candidacy, completing the dissertation and the Ph.D.

Certification Programs Offered

Provisional and professional level certification may be developed along with master's and doctoral degrees depending on advisory committee approval. Post-baccalaureate certification programs are possible through application to the Graduate School for certification only or non-degree status. Certificates are awarded by the State Board for Educator Certification. Contact the Department for information about current certificates. Requirements for certification programs may change based upon changes in requirements, policies or procedures of the State Board for Educator Certification.

Certification Admission Requirements

Admission to TWU Graduate School

Deficiency Plan or appropriate Degree Plan

Approved application to Teacher Education Program

- GPA of 3.0 on last 60 hours of course work and 2.5 overall
- THEA Scores: Reading 260, Mathematics 240, Writing 240 OR
Accuplacer scores: Reading 80, Mathematics 65, and Writing 82/6
- Signed commitment contract acknowledging understanding of the Professional Dispositions policy.

Courses of Instruction in Bilingual Education and ESL

EDBE 5333. Curriculum for Bilingual Education: Methods and Materials. This course deals with curriculum organization of the elementary school with emphasis on background and objectives of educational programs in reading, writing, math, science, and social studies appropriate to the needs of children for whom English is a second language. Three lecture hours a week. Credit: Three hours.

EDBE 5413. Teaching Reading and Other Language Arts to Linguistically Different Learners. Principles and best practices in teaching English literacy skills to linguistically different learners in the elementary schools. Three lecture hours per week. Credit: Three hours.

EDBE 5453. English as a Second Language: Methods. This course offers students a comprehensive examination of current principles, practices, and methods of teaching English as a second language (ESL) through lectures and demonstrations. It also enables them to teach content areas via ESL methods. Credit: Three hours.

EDBE 5633. Education in Culturally Diverse Environments. This course analyzes the theoretical foundations of contemporary multicultural education, reviews its policies and practices and explores multicultural concepts for achieving cultural pluralism. Three lecture hours a week. Credit: Three hours.

EDBE 5653. Second Language Acquisition: Theories and Practices. This course examines the mental processes involved in second-language acquisition and their pedagogical implications. It also provides students with the fundamentals of psycholinguistics and cross-cultural communication. Three lecture hours a week. Credit: Three hours.

EDBE 5903. Special Topics. Organized study of a topic in Bilingual or ESL education. May be repeated. Credit: Three hours.

Courses of Instruction in Educational Administration

ELDR 5103. Leadership in Educational Settings. Exploration of various concepts and philosophies of leadership. Examination of leadership as a philosophically-based process for achieving personal, professional, and organizational goals. Required of all majors in administration and supervision. Credit: Three hours.

ELDR 5113. Educational Foundations and Administrative Implications. Historical, philosophical, and cultural factors influencing education. Planning instruction and learning. Critical and higher level thinking. Modeling democratic values and implications for decision making. Credit: Three hours.

ELDR 5203. Research in Education. Practice of skills for prospectus development; types of research; methods; techniques and procedures of educational empirical research; research design; research writing; analyzing research reports; development of research skills for reading professional journals. Credit: Three hours.

ELDR 5223. Professional Development and Supervision in Education. The scope of professional development and supervision in instructional improvement and school renewal. Credit: Three hours.

ELDR 5323. Administrative Processes in Schools. Business management processes including planning and administrative functions, site-based management, budget, facilities, technology, insurance, purchasing, human resources for certified and non-certified personnel, relationship of business management functions to teaching and learning environment. Credit: Three hours.

ELDR 5333. Curriculum Development, Assessment, and Evaluation. Major issues, problems, and trends in education; the role of educational leadership in curriculum, program development, assessment and evaluation. Credit: Three hours.

ELDR 5903. Special Topics. Variable content. Credit: Three hours.

ELDR 5911. Individual Study. Individual study of specific problems. Credit: One hour.

ELDR 5913. Individual Study. Credit: Three hours.

ELDR 5973. Professional Paper. Prerequisite: ELDR 5203 Credit: Three hours.

ELDR 5983. Thesis. Prerequisite: Permission of instructor. Credit: Three hours.

ELDR 5993. Thesis. Prerequisite: ELDR 5983 and permission of instructor. Credit: Three hours.

ELDR 6113. Education Law. Constitutional, statutory, administrative and case law related to the operation of schools. Credit: Three hours.

ELDR 6223. Organizational Leadership: Theory and Practice. Theory, research, and practices related to school administration; analysis of administrative behavior and the processes of decision making, school leadership, and organizational change. Credit: Three hours.

ELDR 6233. The Superintendency and School District Leadership. The superintendency and school district leadership in the social, economic, and political contexts that affect schooling and frameworks for identifying and analyzing problems of practice and courses of action. Credit: Three hours.

ELDR 6303. Administration of Teacher and Student Personnel. Analysis of the problems, characteristics, and potentialities of elementary and secondary school students, teachers, and other personnel; policies, schedules, strategies, and procedures to help students and teachers to enhance effective learning. Credit: Three hours.

ELDR 6403. Seminar in School Administration. A thorough review of all aspects of school administration, including contemporary issues which affect schools. Credit: Three hours.

ELDR 6503. School Finance. The principles and concepts of public school finance at the local, state, and federal levels, and district level support services. Credit: Three hours.

ELDR 6603. Policy, Politics, and Ethics. Concepts, theories, and perspectives in educational policy, politics, and ethics and implications for equity, power, and policymaking. Credit: Three hours.

ELDR 6613. Internship for the Principal. Application of research and understanding of the decision making processes to an ongoing elementary, middle, junior, or senior high school; supervised experiences in practical administration of a school; application of concepts and competencies learned in previous courses. Credit: Three hours.

ELDR 6663. Internship in School Administration. Practical experience in a variety of school administration positions under the guidance and supervision of active central office administrators. Application of concepts and competencies in realistic situations. Credit: Three hours.

Courses of Instruction in Curriculum & Instruction

EDUC 5113. Foundations of Teaching and Learning. Critical examination of the professional roles, responsibilities, and structure of national and state educational systems; legal and ethical requirements of teaching; the importance of family participation in the educational process; significance of developing partnerships with the learning community. Prerequisite: Approved admission to the Teacher Education Program. Fieldwork required. Credit: Three hours.

EDUC 5123. Learning Theory, Development, and Research (EC-12). Analysis of research studies and theories of the learning process and factors that impact and create learning; instructional strategies to support the cognitive, social, physical, and emotional development of learners; effective teacher instructional design. Prerequisites: EDUC 5113. Option: EDUC 5123 may be taken with EDUC 5113. Credit: Three hours.

EDUC 5131. Integrating Technology in Assessment and Instruction (EC-12). Integrating technology in education; principles and strategies for using software and Internet resources in the design and delivery of instruction and assessment; current uses for technology in curricula activities that successfully model subject-area technology integration. Prerequisites: EDUC 5113 and EDUC 5123. Corequisite: EDUC 5133. Option: EDUC 5131 and EDUC 5133 may be taken concurrently with EDUC 5143. Credit: One hour.

EDUC 5133. Assessment and Instructional Design and Delivery for Diverse Learners (EC-12). Design and implementation of instruction appropriate for diverse student populations that reflects an understanding of relevant content and is based on continuous and appropriate assessment; responsive instruction that makes use of effective communication techniques, instructional strategies that actively engage students in the learning process, and timely, high-quality feedback. Fieldwork required. Credit: Three hours. Prerequisites: EDUC 5113 and EDUC 5123. Corequisite: EDUC 5131. Option: EDUC 5131 and EDUC 5133 may be taken concurrently with EDUC 5143.

EDUC 5143. Effective Design and Management of the Classroom Environment (EC-12). Design and management of a positive, productive classroom environment; physical and emotional environment; effective learner-centered strategies used for managing student behavior. Social, legal, and ethical issues regarding the use of technology and learning environment. Prerequisites: EDUC 5113, EDUC 5123, EDUC 5131, and EDUC 5133. Option: EDUC 5143 may be taken with EDUC 5131 and EDUC 5133. Fieldwork required. Credit: Three hours.

EDUC 5173. Diversity in the Classroom. Study of theoretical issues and practices that impact the education of students from diverse backgrounds or with diverse educational needs: linguistic, culture, economics. Fieldwork required. Credit: Three hours.

EDUC 5343. Models and Theories of Learning and Teaching. Theoretical background of learning and teaching linked to field-based experiences to expand the knowledge base and expertise of certified teachers. Credit: Three hours.

EDUC 5423. Curriculum Studies. Contemporary and controversial issues in the field of curriculum including the study of the history of the field, multiple definitions of curriculum, paradigms, philosophies and future prospects in the field. Credit: Three hours.

EDUC 5463. Assessment in the Classroom. Review of formal, informal, and alternative assessment; evaluation theory and strategies. Application of theory to classroom setting and development of curriculum-based approaches to assess student progress. Credit: Three hours.

EDUC 5973. Professional Paper. May be repeated for credit for a total of 6 hours credit. Prerequisite: ELDR 5203 or other approved research course. Credit: Three hours.

EDUC 5981. The Professional Portfolio. Development of a professional portfolio by students in the Master of Arts in Teaching program demonstrating the student's growth in the Learner-Centered Competencies. Pass-fail grade only. May be repeated. Credit: One hour.

Courses of Instruction in Special Education

EDSP 5003. Psychology and Education of Exceptional Children. In-depth study in understanding educational and psychological problems in all areas of exceptionality; individual case studies; field trips and demonstration of problems. Prerequisite: Education background or permission of instructor. Credit: Three hours.

EDSP 5013. Collaboration in the Schools. Communicative/interactive skills used for consultation and collaborative problem-solving. Emphasis on strategies for collaboration among educators who work with students with disabilities: teachers, administrators, support personnel, and paraprofessionals. Credit: Three hours.

EDSP 5033. Tests and Measurement for the Exceptional Child. Advanced study in the techniques and procedures for individual educational assessment of children and youth with disabilities. Prerequisite: EDUC 5003 or permission of the instructor. Credit: Three hours.

EDSP 5043. Administration and Supervision of Special Education Programs. Personnel selection; curriculum requirements; use of funds; school law; operating procedures; state procedures for special education; critical analysis of existing programs. Prerequisite: Permission of instructor. Credit: Three hours.

EDSP 5053. Principles of Learning for Exceptional Children. Review principles of learning theories. Application of learning theories to characteristics and

educational needs of students with exceptionalities. Application of theories to instruction and behavior management. Credit: Three hours.

EDSP 5103. Developmental Disabilities. Psychological, educational, institutional, and physical needs of individuals with developmental disabilities; analysis of case histories; intellectual evaluations; vocational assessment, diagnosis, and treatment. Prerequisite: EDSP 5003 or permission of the instructor. Credit: Three hours.

EDSP 5113. Individuals with Multiple and Severe Disabilities. Etiology, medical and behavioral aspects of multiple and severe disabilities. Assessment procedures, instructional strategies, and vocational considerations. Prerequisite: EDSP 5003. Credit: Three hours.

EDSP 5163. Inclusive Educational Programming. This course is designed to provide information about inclusive education along with some hands-on experience in instructional design for diverse learners. The course is recommended for both general and special educators. Prerequisite: EDSP 5003. Credit: Three hours.

EDSP 5303. Students with Emotional/Behavioral Disorders. Behavioral characteristics and needs of students with emotional/behavioral disorders in both regular and special classrooms; issues related to vocational and transition planning; parent training, and consultation procedures. Prerequisite: EDSP 5003. Credit: Three hours.

EDSP 5313. School-based Interventions for Students with Emotional/Behavioral Disorders. Methods of teaching; learning characteristics unique to different types of disturbances; maintaining discipline; curriculum; goals of teaching; task analysis; planning career and transition goals and strategies; observations; and crisis intervention. Prerequisite: EDSP 5003. Credit: Three hours.

EDSP 5323. Models and Theories for the Education of Students with Emotional/Behavioral Disorders. Models and theories relating to etiology of emotional disturbances including biological, sociological, and psychological; relationship between learning and normal and abnormal behavior; treatment of emotional disturbances; and interdisciplinary program coordination. Credit: Three hours.

EDSP 5413. Individuals with Learning Disabilities. Identification, characteristics, and etiology of children with learning disabilities; intervention strategies to improve academic, behavioral, and social skills. Prerequisite: EDSP 5003. Credit: Three hours.

EDSP 5423. Methods of Teaching Special Education. Practical application of theories, methods, and materials for teaching academic subjects to the mildly handicapped. Developing specific goals of instruction; selection of curriculum; design, use, and evaluation of educational media and materials. Prerequisite: EDSP 5003 or permission of instructor. Credit: Three hours.

EDSP 5433. Language Problems of Students with Disabilities. Overview of normal language development. Emphasis on language and communication problems of children and youth with disabilities; relationship to academics and behavior. Prerequisite: EDSP 5003 or equivalent. Credit: Three hours.

EDSP 5833. Clinical Instruction in Psychoeducational Assessment.

Structured clinical experiences in using techniques and psychoeducational procedures for cognitive, academic, and behavioral assessment. Prerequisite: EDSP 5033. Credit: Three hours.

EDSP 5843. Clinical Instruction in Intellectual Assessment. Laboratory or practical experiences involving the administration and interpretation of instruments of appraisal or assessment. Prerequisite: EDSP 5033. Credit: Three hours.

EDSP 5853. Advanced Assessment and Evaluation of Individuals with Disabilities. Interpretation of educational and psychological assessments; educational recommendations; and report writing. Prerequisites: EDSP 5033, EDSP 5833, and EDSP 5843. Credit: Three hours.

EDSP 5903. Special Topics. Organized study of a topic in special education. May be repeated. Credit: Three hours.

EDSP 5911. Individual Study. Individual study of a specific topic in special education. Prerequisite: Permission of instructor. May be repeated. Credit: One hour.

EDSP 5913. Individual Study. Individual study of a specific topic in special education. Prerequisite: Permission of instructor. May be repeated. Credit: Three hours.

EDSP 5973. Professional Paper. May be repeated for credit for a total of 6 hours credit. Prerequisite: ELDR 5203 or other approved research course. Credit: Three hours.

EDSP 5983. Thesis. Credit: Three hours.

EDSP 5993. Thesis. Prerequisite: EDUC 5983. Credit: Three hours.

EDSP 6103. Social, Psychological, and Educational Aspects of Intellectual and Developmental Disabilities. Advanced study of etiology, remediation, and education of individuals with mental retardation and developmental disabilities. Prerequisites: EDSP 5103 or equivalent courses and permission of instructor. Credit: Three hours.

EDSP 6303. Seminar in Emotional and Behavioral Disorders. Study of adjustment and emotional problems in individuals assigned to various least restrictive environments. Research related to etiology, conceptual models and interventions. Prerequisites: EDUC 5303 or equivalent course and permission of instructor. Credit: Three hours.

EDSP 6403. Seminar in Learning Disabilities. Advanced study of physical, psychological, and environmental causes of learning disabilities, and interrelationships among the causes. Prerequisites: EDSP 5413 or equivalent course in the area, and permission of instructor. Three lecture hours a week. Credit: Three hours.

EDSP 6603. Social Constructs of Disabilities. The study of how disabilities are socially constructed. Analysis of disability constructs includes the perspectives of individuals with disabilities and the impact of literature, art and the media. Credit: Three hours.

EDSP 6903. Special Topics. Organized study of a topic in special education. May be repeated. Credit: Three hours.

EDSP 6911. Individual Study. Individual study of special problems in special education. Prerequisite: Permission of instructor. May be repeated. Credit: One hour.

EDSP 6913. Individual Study. Individual study of special problems in special education. Prerequisite: Permission of instructor. Credit: Three hours.

EDSP 6983. Dissertation. May be repeated for credit. Credit: Three hours.

EDUC 6993. Dissertation. Prerequisite: EDUC 6983. May be repeated for credit. Credit: Three hours.

Courses of Instruction in Special Education at UNT

Students wishing to enroll in the following UNT courses will do so through a cross-registration mechanism administered by the Graduate School at TWU. UNT courses are listed in the UNT Graduate Catalog.

School of Library and Information Studies

Director: Ling Hwey Jeng, Professor

Location: SH 404

Phone: 940-898-2602

Fax: 940-898-2611

E-mail: slis@twu.edu

Website: www.twu.edu/slis/

Faculty: Professors L. Jeng, K. Swigger, S. Vardell; Associate Professors L. Akin, H. Lee; Assistant Professors J. Battle, M. Cahill, E. Curry, J. Golden, G. Hoffman, E. McElrath, J. Moreillon, C. Perryman, J. Richey, M. Yi.

Graduate Degrees Offered

M.L.S., M.A. in Library Science

Ph.D. in Library Science

Graduate Certificates Offered

Post-master's Certificate of Advanced Study

Post-master's Certificate in Evidence-Based Health Science Librarianship

Post-master's Certificate in School Librarianship

Texas Woman's University School of Library and Information Studies educates professionals to become leaders in practice and research in the field of library and information services; inspires intellectual curiosity, scholarship, and research to expand knowledge in library and information studies; and develops leaders who promote exceptional services in libraries within diverse communities.

The School of Library and Information Studies prepares students for professional roles in library and information services.

1. Develop professional competencies that reflect an appropriate balance between theory and practice.
2. Prepare students to use technological advances to meet the changing information needs of a diverse society.
3. Contribute to the improvement of library and information services through teaching, research, publication, and professional service.
4. Advance the information professions through the development of new knowledge in library and information studies.

The programs of study leading to the degrees of Master of Library Science and Master of Arts in Library Science are accredited by the American Library

Association. The master's degree programs are designed to prepare information professionals who will:

1. Articulate an understanding of the dynamic role of librarianship as a profession and the changing roles of libraries as agencies;
2. Demonstrate ability to apply the principles of acquiring, organizing, delivering, and preserving information and knowledge;
3. Use knowledge and skills to perform effectively in professional positions;
4. Employ technologies to meet information needs in a variety of contexts;
5. Analyze social issues that have an impact on professional practice;
6. Plan for continuous, career-long professional development;
7. Recognize the value of participation in professional organizations and activities.

The Doctor of Philosophy degree program in Library Science supports the stated mission of the University specifically in the areas of research to enhance progress and welfare of people and the encouragement of the development of intellectual, humanitarian, and leadership skills.

In pursuing this goal the following objectives have been established:

1. To prepare students to identify significant problems in libraries and information agencies, place them in context, and apply appropriate research techniques to solve them;
2. To prepare students to assume positions of leadership in the library and information professions as researchers, teachers, and administrators;
3. To advance the profession of librarianship through the development of new knowledge about libraries and librarianship.

The School is located in Stoddard Hall, a beautiful building which includes multi-purpose seminar rooms, offices, laboratories, and lounges which provide meeting space for faculty and students.

Admission Requirements

Applicants to the School of Library and Information Studies must be admitted by both the Graduate School and SLIS, and must submit two different sets of application materials: one to the Office of Student Records and the other to the School of Library and Information Studies.

All applicants must submit the following items to the Office of Student Records:

- Official transcripts for all previous university work
- Application fee
- ApplyTexas online application form
- Official standardized test score (GRE, GMAT, LSAT, MCAT, or Miller Analogies Test)
- For applications for admission to the master's programs, these test scores can be waived for applicants holding an accredited master's or doctoral degree in another discipline.

Students may apply for the School of Library and Information Studies under any of the following categories:

Master's Degree Programs and School Librarian Certification

The School of Library and Information Studies takes the holistic approach to the review of admission applications. Successful applicants for the master's degree programs are expected to meet the following criteria:

- A GPA of 3.0 for the last 60 hours of undergraduate coursework. Those who have a 3.0 or higher GPA in a completed post-graduate degree from an accredited university will be considered;
- The test scores of a standardized test are expected to fall at or above the median for the national aggregates of their available demographic variables;
- English language proficiency scores, for international students, which meet the University's requirements; and
- A clear interest in library science and the ability to complete graduate-level coursework as clearly demonstrated in a cohesive, well-written essay as well as the letters of recommendation.

Applicants must submit the following items directly to the School of Library and Information Studies:

- A SLIS application form, available on the SLIS website;
- A resume;
- Three letters of recommendation from professional and/or educational connections who can address the applicant's potential for success in graduate school; and
- A well-written, 2-page statement of intent addressing the applicant's professional interest, experience, or expertise in librarianship, information studies, and/or information technology.

Doctoral Degree Program

- Completion of the Application for Admission to the Doctoral Program of the School of Library and Information Studies;
- A master's degree in library science accredited by the American Library Association, or its equivalent;
- Autobiographical essay that includes reasons for pursuing the Ph.D.;
- Curriculum vitae;
- Letters of recommendation from three references qualified to judge the applicant's professional, academic, and/or research abilities; and
- An interview with the Doctoral Committee (or its designated representative).

Certificate of Advanced Study

Successful applicants to the Certificate of Advanced Study program must have a master's degree in library and/or information science from an ALA-accredited school. Applicants must be admitted to both the Graduate School and SLIS. In addition to the application requirements of the Graduate School, the applicants must

submit directly to SLIS an application form for the Certificate of Advanced Study program and three letters of recommendation.

Graduate Certificate in Evidenced-Based Health Science Librarianship

Applicants for the certificate program must meet one of the following two conditions:

- Possession of a graduate degree (master's or doctoral) in a discipline in Nursing, Health Sciences, or Library Science; or
- Admission to a graduate degree program in the TWU College of Nursing, College of Health Sciences, or School of Library and Information Studies.

For students with a master's degree, a Certificate in Evidence-Based Health Science Librarianship is awarded when the student completes all course requirements for the certificate program. For students pursuing a master's degree concurrently, the certificate is awarded after the student completes all requirements for the graduate degree.

A complete application for admission to the Graduate Certificate program consists of the following materials:

- ApplyTexas online application form, indicating graduate certificate as the admission option;
- Application fee;
- GRE or another standardized test score (waived if the concurrently admitted degree program does not require a standardized test score);
- Transcripts from all universities attended; and
- SLIS Graduate Certificate application form.

General Requirements for Master's Degree Programs

A cumulative 'B' average must be maintained. Any course with a grade of 'C' cannot be applied toward the student's degree. Students are allowed to repeat a course once to improve a grade. No graduate library science course may be taken more than twice.

Requirements for the Master of Library Science Degree

The M.L.S. degree is designed to prepare professionals to work in academic, public, school, corporate and other special libraries, as well as other types of information environments. This preparation is achieved by (1) the acquisition of knowledge in a set of courses basic to an understanding of library and information studies, (2) advanced instruction in courses selected according to the student's career goals, (3) completion of a practicum or internship (may be waived if the student has had comparable and substantial experience in a library or other information environment, to be replaced with an advisor-approved elective), and (4) completion of a final examination.

Required Courses, 21 hours:

- LS 5003 Collection Development
- LS 5083 Foundations of Library and Information Studies
- LS 5013 Information Organization and Retrieval
- LS 5043 Information and Communication Technology
- LS 5263 Information Sources and Services
- LS 5383 Library Management
- LS 5843 Practicum

Library Science electives, 15 hours

Total: 36 hours

Final Examination: The Final Exam comprises submission of a professional portfolio, to be reviewed by the Final Exam Committee.

Special M.L.S. program for those holding the Ed.D. or Ph.D.:

Required courses, listed above, plus 9 hours of Library Science electives

Total: 30 hours

Requirements for Dual Master's Degree in Library Science and Health Studies

Required Library Science Courses, 21 hours:

- LS 5003 Collection Development
- LS 5013 Information Organization and Retrieval
- LS 5043 Information and Communication Technology
- LS 5083 Foundations of Library and Information Studies
- LS 5363 Health Sciences Information Services
- LS 5473 Health Reference Information Sources and Services
- LS 5483 Consumer Health Information Resources

Required Health Studies Courses, 24 hours:

- HS 5013 Data Collection
- HS 5353 Epidemiology
- HS 5383 Program Development and Coordination
- HS 5413 Current Issues in Health Studies
- HS 5423 Ethnic and Cultural Factors in Health Decisions
- HS 6443 Foundations of Health Science
- HS 6453 Strategies in Health Education Delivery
- One 3-hour elective from Health Studies

Additional Requirements, 9 hours:

One graduate level 3-hour statistics course
HS 5023 Methods in Health Education Research
LS 5843 Practicum

Final Examination: The SLIS Final Exam comprises submission of a professional portfolio, to be reviewed by the Final Exam Committee.

Total: 54 hours

Requirements for the Master of Arts Degree

The Master of Arts degree in Library Science (M.A.L.S.) is designed to prepare library and information professionals to conduct research in an information environment. This preparation is achieved by (1) the acquisition of knowledge in a set of courses basic to an understanding of library and information studies, (2) advanced instruction in a set of research courses, (3) completion of a thesis, and (4) experience in a research setting. As graduates conduct their professional research and/or move into doctoral programs in librarianship, they will make effective contributions to library research.

Goals of the M.A. degree, in addition to goals for the M.L.S., are: (1) to contribute to the improvement of library and information services through research; (2) to produce graduates who can work in association with researchers in other disciplines; and (3) to produce graduates with research expertise needed to work in academic libraries, government agencies, etc.

Required Courses, 24 hours:

LS 5003 Collection Development
LS 5083 Foundations of Library and Information Studies
LS 5013 Information Organization and Retrieval
LS 5043 Information and Communication Technology
LS 5263 Information Sources and Services
LS 5383 Library Management
LS 5753 Research Methods
LS 5843 Practicum

Electives in Library Science and other disciplines, 6 hours

Research tool, 3 hours

Thesis, 6 hours

LS 5983 & 5993

Total: 39 hours

General Requirements for the Certificate of Advanced Study

To provide an integrated, organized program of study, each student will complete a minimum of 24 hours of graduate coursework, including at least 18 hours at the 6000 level. Of those 24 hours, the following courses are required:

LS 6723 Critical Inquiry in Information Analysis

LS 6733 Action Research in Information Issues

LS 6373 Research and Issues in Library and Information Systems

LS 6383 Research and Issues in Management

LS 6393 Research and Issues in Libraries and Information with a Cultural Context

Two graduate-level research methods courses

General Requirements for the Certificate in Evidence-Based Health Science Librarianship

The curriculum for the certificate program consists of three required core courses, three required courses in health science librarianship, and one required practicum as the capstone course.

Three required Library Science Core Courses, 9 hours:

LS 5083 Foundations of Library and Information Studies

LS 5013 Information Organization and Retrieval

LS 5043 Information and Communication Technology

Three required Health Informatics Courses, 9 hours:

LS 5363 Health Sciences Information Services

LS 5473 Health Reference Information Sources and Services

LS 5483 Consumer Health Information Resources

Required Practicum, 3 hours:

LS 5843 Practicum: Evidence-Based Practice in a health science library

General Requirements for the Certificate in School Librarianship

The curriculum for the certificate program consists of seven required courses, and one required practicum as the capstone course.

Required Library Science Courses, 21 hours:

- LS 5083 Foundations of Library and Information Studies
- LS 5233 Multimedia Resources and Services
- LS 5003 Collection Development
- LS 5103 Cataloging and Classification
- LS 5603 Literature for Children and Young Adults
- LS 5333 School Library Media Center
- LS 5443 Librarians as Instructional Partners

Required Practicum, 3 hours:

- LS 5843 Practicum

General Requirements for the Doctoral Degree

Total Hours Required: 90 hours beyond the bachelor's degree, including 12 hours for dissertation; 18 hours of 6000-level courses prior to candidacy.

Residence requirement: None.

Research Tools: See the "General Requirements and Regulations for Doctoral Degrees" section of this catalog.

Admission to Candidacy: See the "General Requirements and Regulations for Doctoral Degrees" section of this catalog.

Final Examination: See the "General Requirements and Regulations for Doctoral Degrees" section of this catalog.

Minors Offered to Students from Other Departments

The requirements for a minor in Library Science on the graduate level vary according to the student's degree program and are subject to agreement between the student's advisory committee and the appropriate faculty member(s) in the School of Library and Information Studies.

Master's level: A minor is commonly defined as six to twelve hours of credit.

Doctoral level: Twelve to eighteen hours is common.

Courses of Instruction in Library Science

LS 5003. Collection Development. Introduction to collection development, evaluation, selection criteria, and tools. Discussion of community analysis, censorship, library standards, and the publishing industry. Credit: Three hours.

LS 5013. Information Organization and Retrieval. Organization of information and the tools used to represent and provide access to information in libraries and information agencies; cataloging, classification, subject analysis, indexing, metadata, and retrieval strategies. Credit: Three hours.

LS 5043. Information and Communication Technology. Concept and management of information technology related to library and information work; database, networking, web technologies, and social and ethical aspects of information and communication technology applied to libraries and information agencies. Credit: Three hours.

LS 5083. Foundations of Library and Information Studies. Purposes, challenges, and principles of library and information studies; its organization and operations as a profession. Credit: Three hours.

LS 5103. Cataloging and Classification. Standard descriptive and subject cataloging of library materials; theory and practice of classification schemes; technical services operations; use of online databases in cataloging and technical services. Prerequisite: LS 5043. Credit: Three hours.

LS 5133. Indexing and Abstracting. Theory and techniques of indexing journal literature, books, newspapers; database production; survey of commercially available products; theory and techniques of preparation of abstracts, annotations, and other condensed versions of documents. Credit: Three hours.

LS 5213. Information Sources in Business. Study of literature, information sources and services, and bibliographical aids in various fields of business such as marketing, advertising, finance, banking, management, accounting, insurance, corporate statistics; consideration of business library operations. Credit: Three hours.

LS 5233. Multimedia Resources and Services. Existing and emerging multimedia information technologies with emphasis on the design, production, and organization of multimedia resources for K-12 settings: classrooms, libraries, media centers, and network-accessible information sites. Credit: Three hours.

LS 5253. Electronic Information Resources in the Health Sciences. Survey course of electronic information resources in the health sciences including online command driven systems, menu driven systems, and CD-ROM products. Credit: Three hours.

LS 5263. Information Sources and Services. Survey of print and electronic reference tools; terminology, techniques, concepts of modern reference service; question-negotiation and formulation of effective search strategies; evaluation of information sources and services. Credit: Three hours.

LS 5303. The Public Library. Background of modern American public library; organization and administration; philosophy; services for types of patrons with special needs; performance measures; regional and state development; federal and state aid programs; current trends. Credit: Three hours.

LS 5313. The College and University Library. Administrative principles and practices as applied to college and university libraries; standards, services, materials, personnel, budget, quarters, reports, and statistics. Credit: Three hours.

LS 5323. The Special Library. History, theory of special library management; organization; management of special materials; relationship of librarian to staff, clientele, upper management; standards of special librarianship. Credit: Three hours.

LS 5333. School Library Media Center. Philosophy, management and planning of resources, personnel, programs, and facilities; budgeting; collection building; instructional design; services to students and teachers; program evaluation; public relations. Credit: Three hours.

LS 5343. Youth Programs. History, philosophy, and objectives of library service to youth; organization and administration; emphasis on programming and service with special attention to multicultural needs of today's youth; techniques of booktalking and storytelling. Credit: Three hours.

LS 5363. Health Sciences Information Services. History and development of the health sciences information environment; structure, functions, and service patterns; administrative and technical problems; health sciences literature; information needs, resources, and reference services; networks; trends. Credit: Three hours.

LS 5383. Library Management. Administrative theory, organizational planning, leadership styles, decision-making, problem solving, and other aspects of the management process applied to libraries. Credit: Three hours.

LS 5403. Library Technology Systems. Planning, selection, migration, implementation, and assessment of library-related software and hardware, including integrated library systems. Overview of current library technology trends and issues. Credit: Three hours.

LS 5413. Systems Analysis and Design for Libraries. Analysis of actual or simulated library systems; their evaluation and the design of replacement systems. Credit: Three hours.

LS 5443. Librarians as Instructional Partners. Learning and libraries; the role of the librarian and resource-based learning within the curriculum; the librarian as a teaching partner, team member, and instructional consultant. Learning theory and educational issues as they apply to cooperative planning, and implementation projects designed to improve information literacy and scholastic achievement. Credit: Three hours.

LS 5463. Medical Specialties and Specialized Information Resources. Survey of medical specialties, subspecialties, and special topics with corresponding examination of relevant information resources. Includes traditional print resources as well as electronic information resources. Credit: Three hours.

LS 5473. Health Reference Information Sources and Services. Survey of health care reference resources, terminology, tools, techniques, and services in a variety of library and health care settings. Emphasis on selection, organization, use, and evaluation of print, multimedia, and electronic resources for provision of health-related reference service. Topics include health communication models, reference service models, information seeking behaviors and problems of healthcare professions, education and training for use of health information resources and

ethical considerations in health information provision. Trends and issues in health reference service in the electronic environment. Credit: Three hours.

LS 5483. Consumer Health Information Resources. History and development of consumer health information resources; role of professional and governmental agencies in provision of consumer health information; policy issues related to provision of consumer health information. Consumer health professional literature, user information needs, user resources, and information services. Identification, selection, utilization, and evaluation of consumer health information for special populations within specialized educational and healthcare settings. Trends and issues in consumer health informatics. Credit: Three hours.

LS 5513. Online Information Retrieval. Creation and distribution of machine readable databases; organization of commercial search systems; query languages; search strategies; search aids; search evaluation; management of online services in libraries and information centers. Credit: Three hours.

LS 5523. Multicultural Librarianship. Identification and selection of materials appropriate for diverse cultures; services and programs in school and public libraries. Credit: Three hours.

LS 5533. Internet Research for Non-Library Science Majors. Internet information research including file structures, web browsers, and online communication. Current Internet trends, issues, practices, and standardization; tools for research and evaluation of online resources. It is strongly advised that students take this course in preparation for LS 5553 Electronic Information Retrieval for Non-Library Science Majors. Credit: Three hours. (Not available for M.L.S. or M.A. in Library Science degree credit.)

LS 5553. Electronic Information Retrieval for Non-Library Science Majors. Basic concepts, principles and techniques associated with accessing, identifying and using information on the Internet and in online research databases. Requires basic computer and Internet skills, and file management. Prerequisite: LS 5533 or equivalent. Credit: Three hours. (Not available for M.L.S. or M.A. in Library Science degree credit.)

LS 5573. Web Development for the Information Professions. Techniques, concepts, and principles associated with learning (X)HTML and CSS coding for user-friendly website development. Identifying, using, and evaluating Internet information resources. Learning the history of the Internet. Understanding current Internet issues and trends. Credit: Three hours.

LS 5603. Literature for Children and Young Adults. Survey of literature and reference materials for children and young adults. Emphasis on reading interests, professional evaluation, educational uses, and readers' advisory. Credit: Three hours.

LS 5623. Advanced Literature for Young Adults. Selection and evaluation of literature meeting interests, needs and abilities of young adults in a contemporary, pluralistic society; techniques of reading guidance; emphasis on current issues; individual study project required. Prerequisite: LS 5603. Credit: Three hours.

LS 5633. Art of Storytelling. Examination of folk literature of world cultures as a source of materials for storytelling; storytelling techniques including selection of materials, preparation, and presentation; planning story hours and other folk literature based programs. Credit: Three hours.

LS 5643. Literacy Programs in Libraries. Role of libraries in promoting literacy. Particular emphasis upon public library family literacy programs, the emergent literacy process, government programs, workplace literacy, ESL literacy programs, and cultural literacy. Planning and proposal development for literacy programs, including needs assessment, goal setting, and evaluative methods. Credit: Three hours.

LS 5653. Multicultural Literature for Children and Young Adults. Literature for children and young adults which reflects the culture and experiences of African Americans, Asian Americans, Hispanic/Latino Americans, and Native Americans; selection guidelines, evaluation of literary quality, cultural authenticity, and educational uses. Prerequisite: LS 5603. Credit: Three hours.

LS 5663. Poetry for Children and Young Adults. Major poets, titles, and anthologies of contemporary poetry published for children and young adults; reading and responding to poetry for young people; sharing poetry with children; understanding poetic forms and formats, incorporating multicultural poetry, making curricular connections, and fostering children's responses to poetry. Prerequisite: LS 5603. Credit: Three hours.

LS 5723. Seminar: Advanced Cataloging. Advanced work in descriptive and subject cataloging, with study of current developments including automated techniques. Study of Library of Congress and other classification schemes. Prerequisite: LS 5103 or equivalent. Credit: Three hours.

LS 5753. Research Methods. Methods and techniques of research applicable to problems in library and information studies. Credit: Three hours.

LS 5833. Information Ethics. History of ethics and ethical issues librarians will encounter as information professionals; framework in which to analyze ethical concerns. Credit: Three hours.

LS 5843. Practicum. Professionally supervised work experience in approved school, public, academic, or special libraries. One-hundred and twenty hours of work experience; students seeking School Librarian Certification admitted to MLS program on or after January 1, 2009, complete one-hundred and sixty hours of work experience. Credit: Three hours.

LS 5901. Special Topics. An organized class for the study of a particular area or subject not offered in another scheduled course. Credit: One hour. May be repeated for credit when the specific topic of investigation varies.

LS 5903. Special Topics. Investigation under faculty direction of special topics of particular interest. Credit: Three hours. May be repeated for credit when the specific topic of investigation varies.

LS 5911. Individual Study. Individual study of topics in librarianship, research, or information science selected in accordance with student's interests and needs. Prerequisite: Permission of instructor. Credit: One hour.

LS 5913. Individual Study. Individual study of topics in librarianship, research, or information science selected in accordance with student's interests and needs. Prerequisite: Permission of instructor. Credit: Three hours.

LS 5983. Thesis. Credit: Three hours.

LS 5993. Thesis. Prerequisite: LS 5983. Credit: Three hours.

LS 6003. Theory of Communication. Analysis and study of general models of communication; the roles of mass media and libraries in the total information process. Three lecture hours a week. Credit: Three hours.

LS 6013. Education for Librarianship. History and objectives, curricula, methods of instruction, trends and problems in library education at all levels. Each student plans and teaches a unit in a master's or baccalaureate level library science course. Three lecture hours a week. Credit: Three hours.

LS 6043. The Scholarly Career. The nature of scholarly careers; the professional service role in the context of teaching and research; academia as a subculture and subsociety; information resources relevant to understanding scholarly careers. Three lecture hours a week. Credit: Three hours.

LS 6053. Research and Issues in Library and Information Studies. Examination of theories and issues in library and information studies, such as roles of libraries in learning, information systems, information policy, and planning and management of library services. May include required class meetings in conjunction with professional or scholarly conferences. Three lecture hours a week. Credit: Three hours.

LS 6373. Research and Issues in Library and Information Systems. Examination of foundation and newly evolving theories and issues in library and information systems such as system structure, database analysis, relevance criteria, subject classification development, information technology design principles, and integration of information systems. In select semesters, it will meet around an appropriate conference at which time conference attendance will be required. Three lecture hours a week. Credit: Three hours.

LS 6383. Research & Issues in Management. Examination of foundation and newly evolving theories and issues in library and information management and administration such as organizational structure, personnel services, policy development, and fiscal matters. In select semesters, it will meet around an appropriate conference at which time conference attendance will be required. Three lecture hours a week. Credit: Three hours.

LS 6393. Research and Issues in Libraries and Information with a Cultural Context. Examination of foundation and newly evolving theories and issues in social, cultural, and educational aspects of library and information services such as user needs, user education, development of the information professions, and service models. In select semesters, it will meet around an appropriate conference at which time conference attendance will be required. Three lecture hours a week. Credit: Three hours.

LS 6403. Professional Presentations and Publishing. Analysis of scholarly communications and professional writing activities, including publishing reviews, journal articles, and monographs. Market analysis, submissions, editing, and planning of professional presentations for conferences and workshops; evaluating performance. Three lecture hours a week. Credit: Three hours.

LS 6623. History of Children's Literature. Development of literature for children, chiefly in England and America, from the earliest times, including an analysis of children's books and reading as part of changing social and cultural patterns. Three lecture hours a week. Credit: Three hours.

LS 6633. Materials and Services for Very Young Children. Research and theories of early childhood development as related to materials selection and provision of services for very young children; evaluation and assessment of effectiveness of collections and services; observations of school and public library services for very young children. Prerequisite: LS 5603 or 5623, or permission of instructor. Three lecture hours a week. Credit: Three hours.

LS 6643. Nonfiction for Children and Young Adults. Rationale and principles for selecting and using informational books and media that complement school curricula in grades K-12. Emphasis on methods of evaluation, role of nonfiction in the development of lifetime readers, curricular uses for informational books and media, and library programming with nonfiction materials. Prerequisite: LS 5603 or 5623, or permission of instructor. Three lecture hours a week. Credit: Three hours.

LS 6723. Critical Inquiry in Information Analysis. The platform course for the doctoral program. Review of approaches to formulated research questions, developing analytic frameworks and examining critical theories. Applies this review to information analysis on the cultural, social, system, and individual levels. Three lecture hours a week. Credit: Three hours.

LS 6733. Action Research in Information Issues. Builds on the prerequisite courses to move from theory to application and dissemination. Applied research in a library or information setting. Institutional evaluation, informational needs analysis, impact studies, and other site-based, applied research techniques. Prerequisites: LS 6723 and two approved research methods courses. Three lecture hours a week. Credit: Three hours.

LS 6903. Special Topics. Investigation of topics or problems in librarianship by advanced graduate students under the direction of a professor. Credit: Three hours. May be repeated for credit when the specific topic varies.

LS 6911. Individual Study. Individual study of topics in librarianship, research, or information sciences selected in accordance with student's interests and needs. Prerequisite: Permission of instructor. Credit: One hour.

LS 6913. Individual Study. Independent reading and research by advanced graduate student. Prerequisite: Permission of instructor. Credit: Three hours.

LS 6983. Dissertation. Prerequisite: Permission of major professor. Restricted to doctoral students. Credit: Three hours. May be repeated for additional three hours of credit.

LS 6993. Dissertation. Prerequisite: Permission of major professor. Restricted to doctoral students. Credit: Three hours. May be repeated for additional three hours of credit.

Institute of Health Sciences

The Institute of Health Sciences supports the development of the University's programs concerned with health science education and research. In pursuit of this mission, the Institute provides optimal and diverse opportunities for career preparation and prepares effective practitioners and scholars for service, teaching, leadership, and research roles in the field of health.

The Institute of Health Sciences consists of the College of Health Sciences and the College of Nursing. Graduate programs are offered in Education of the Deaf, Exercise and Sports Nutrition, Food Science, Food Systems Administration, Health Care Administration, Health Studies, Kinesiology, Nursing, Nutrition, Occupational Therapy, Physical Therapy, and Speech/Language Pathology.

Many of the Institute programs are offered at University facilities on the Denton Campus, at the T. Boone Pickens Institute of Health Sciences–Dallas Center, and at the Houston Center. In addition, the programs in the Institute of Health Sciences make use of excellent clinical facilities throughout the state.

Application for admission to graduate programs in the Institute of Health Sciences is made to the Graduate School. Each degree program has specific admission requirements, and in some cases enrollment is limited. Descriptions of requirements for admission to each degree program are listed under the specific program.

College of Health Sciences

Dean: Jimmy H. Ishee, Professor

Location: HDB 202

Phone: 940-898-2852

Fax: 940-898-2853

E-mail: jishee@twu.edu

Website: www.twu.edu/college-health-sciences/

The College of Health Sciences consists of the Departments of Communication Sciences and Disorders, Health Studies, Kinesiology and Nutrition and Food Sciences, the Programs in Dental Hygiene and Health Care Administration; and the Schools of Occupational Therapy and Physical Therapy. Students may pursue the degrees of Master of Science, Master of Healthcare Administration, Master of Occupational Therapy, Doctor of Education, Doctor of Philosophy, and Doctor of Physical Therapy within the College.

The College of Health Sciences provides the structure for a creative alliance of disciplines concerned with preparing practitioners, scholars, and researchers that focus on health promotion, prevention of illness, and remediation and rehabilitation of health problems. Multidisciplinary and integrated studies that encourage collaboration among disciplines characterize the academic environment of the College.

Master's Degree programs in Health Sciences:

- M.S. in Speech-Language Pathology
- M.S. in Education of the Deaf
- Master of Healthcare Administration (M.H.A.)
- Master of Occupational Therapy (M.O.T.)
- M.S. in Health Studies
- M.S. in Kinesiology
- M.S. in Exercise and Sports Nutrition
- M.S. in Nutrition
- M.S. in Food Science
- M.S. in Food Systems Administration

Doctoral Degree programs in Health Sciences:

- Doctor of Physical Therapy (D.P.T.) - Professional
- Doctor of Physical Therapy (D.P.T.) - Post-professional
- Ph.D. in Health Studies
- Ph.D. in Kinesiology
- Ph.D. in Nutrition
- Ph.D. in Occupational Therapy
- Ph.D. in Physical Therapy

Detailed descriptions of specializations within the degree programs are included in the departmental sections of the catalog.

Department of Communication Sciences and Disorders

Interim Chair: Gay James, Professor

Location: MCL 804

Phone: 940-898-2025

Fax: 940-898-2070

E-mail: gjames@mail.twu.edu

Website: www.twu.edu/communication-sciences/

Faculty: Professors C. Gill, D. Walker-Batson; Associate Professor C. Smith; Assistant Professors T. Allman, E. Armstrong, S. Bharadwaj, J. Eleweke, L. Green, J. Levitt, J. Mehta, S. Wainscott; Associate Clinical Professors J. White, L. Moorer-Cook, A. Woods; Assistant Clinical Professors P. Chance, K. Mory, M. Stockholm.

Graduate Degrees Offered

M.S. in Speech-Language Pathology

M.S. in Education of the Deaf

Department of Communication Sciences and Disorders Mission

The primary mission of the Department of Communication Sciences and Disorders is to prepare graduate students who are able to function as speech-language pathologists and/or teachers of children who are deaf or hard of hearing with qualifications that meet or exceed the national standards established by the Council for Clinical Certification in Audiology and Speech-Language Pathology or the Council on the Education of the Deaf (CED).

Speech-Language Pathology Program Mission

The Speech-Language Pathology graduate program is dedicated to preparing students to enter the profession of Speech-Language Pathology with qualifications that meet or exceed national certification standards established by the Council for Clinical Certification in Audiology and Speech-Language Pathology and to prepare graduates to function as outstanding speech-language pathologists throughout their careers.

Education of the Deaf Teacher Preparation Mission Statement

TWU's Education of the Deaf Teacher Preparation Program prepares diverse teachers of the Deaf in response to current need in the field. Graduate students are educated with practice-based coursework focusing on communication, language and content information for students who are Deaf/Hard of Hearing. We seek to

prepare highly-qualified practitioners in the field of deaf education nationwide by equipping future teachers with broad knowledge and skills for promoting strong social, linguistic, and academic outcomes among students who are Deaf/Hard of Hearing.

Clinics

The Department of Communication Sciences and Disorders has two clinic locations and provides a variety of services to adults and children of the University and the North Texas community. Individualized services are provided at reduced rates.

Speech-Language Pathology Clinic Options

The Speech-Language-Hearing Clinic

The Speech-Language-Hearing Clinic located on TWU's Denton Campus provides assessment and therapeutic services to the University and Denton communities. Master's level graduate students under the direct supervision of licensed, certified speech-language pathologists and audiologists provide assessments and individual therapy for language, articulation, voice, stuttering, hearing loss, and feeding for children and adults. During the summer, camps are offered for sensory based feeding disorders, language and literacy groups, and preschool articulation and phonology groups.

For applications or further information about the Clinic, write TWU Speech-Language-Hearing Clinic at P.O. Box 425737, Denton, TX 76204-5737; call 940-898-2285; or visit the Clinic's website at www.twu.edu/communication-sciences/clinics.asp. The Clinic is located in MCL 601 on the Denton campus.

The Stroke Center – Dallas

The Stroke Center – Dallas was established in 1992 to provide treatment and training in neurological rehabilitation specifically for stroke. A core of health professionals and graduate students-in-training provide outpatient services for a minimal fee. Located in the T. Boone Pickens Institute of Health sciences on the TWU Parkland campus, the Center operates five 6-week sessions each year. Assessment and intervention services include speech/language therapy, physical therapy, occupational therapy and psychosocial counseling. A major focus of The Stroke Center is clinical research. Individuals may be referred by physician, family or self.

For applications or further information about The Stroke Center programs call 214-689-6592 or check www.twu.edu/stroke-center-dallas. The Stroke Center – Dallas is located in the Southwestern medical district, 5500 Southwestern Medical Avenue, Dallas, TX 75235.

Deaf Education Clinic Options

Several clinic options are available for individuals who are deaf or hard of hearing. Directed by a certified audiologist/AV therapist and a certified deaf educator, those clinic options include the following:

Hearing Testing and Therapy Services

Adult and Pediatric Hearing Assessments

Screening for Auditory Processing Disorders

Auditory-Verbal Therapy for Children with Hearing Loss

Aural Rehabilitation for Users of Cochlear Implants & Hearing Aids

Reading Clinic for Deaf Students

Summer Camp:

Listening and Language Play Group for Young Children with Hearing Loss

Admissions and Retention Regulations

Speech-Language Pathology Program Admission Requirements

To apply for admission to the graduate Speech-Language Pathology Program in the Department of Communication Sciences and Disorders, candidates must submit to the Department:

- A personal letter of intent describing one's professional aspirations in 500 words or less
- Three letters of recommendation from professionals familiar with their academic and/or professional work
- The Information Form on the department's website to apply to the department

Candidates must also apply to TWU through the [Texasapply.org](https://www.texasapply.org) website. In addition, candidates must submit to the Texas Woman's University Office of Student Records:

- Certified copies of official transcripts from all institutions previously attended
- Graduate Record Examination (GRE) Scores

Candidates must have a GPA of 3.0 or better on their last 60 hours of undergraduate work OR on their last 60 hours of undergraduate work plus any post baccalaureate or graduate hours. The Graduate School requires a minimum GPA of 3.0 on all graduate coursework.

Candidates must also have completed an undergraduate degree in communication sciences and disorders or prerequisites for speech pathology prior to beginning the graduate SLP program.

In addition, candidates for the TETN venue must attend an Information Meeting

prior to applying (see website for dates and locations) and submit further materials with their application that are provided in these Information Meetings. More information is available on the COMS website (www.twu.edu/communication-sciences).

All information will be taken into consideration by the Departmental Admissions Committee; selection is based upon the recommendations of the committee and approval by the Graduate School.

Speech-Language Pathology Program Retention Requirements

Students receiving a grade of 'C' in one graduate course must retake the course in order to successfully complete the master's program. Students must not receive more than one 'C' (or lower) in graduate coursework. Students receiving two 'C' grades or lower, in the same or different courses/practica, will be dismissed from the program. Students must also maintain professional and academic integrity at all times and must abide by the university, college, and department codes of ethics/conduct and policies and procedures while in the program.

Speech-Language Pathology Program Requirements for a Master's Degree

1. A minimum of 43 academic hours plus six successful semesters (18 hours) of clinical practicum are required for those seeking a graduate degree in Speech-Language Pathology. Those individuals seeking a degree with an undergraduate major other than Communication Sciences may be required to take additional credit hours.
2. All students must successfully complete a Comprehensive Exam for degree completion and graduation.

Education of the Deaf Program Admission Requirements

1. Applicants seeking admission into the Education of the Deaf Graduate Program should have the following:
 - Bachelor's degree from a regionally accredited university
 - A GPA of 3.0 or better in the last 60 hours of their undergraduate work.
 - GRE is required. Preferred minimum scores of 400 quantitative (140, Revised GRE) and 550 verbal (156, Revised GRE) are recommended. Please submit scores to Student Records.
 - Access to a computer and the internet.
 - Off-Campus/Online Students must have access to a school for children who are D/HH.

2. Departmental Graduate Application Forms (pdf). Please complete all forms and return them to the address on the form. Return sealed letters of recommendation with the application packet.
3. A Statement of Intent should be completed with your departmental application containing no more than 2 pages typed, double-spaced, written in a professional manner, and addressing the following areas of concern:
 - Your qualifications for graduate school
 - 3 reasons for pursuing a graduate degree in education of the deaf
 - What you hope to achieve with a graduate degree in education of the deaf
 - 3 major needs/issues in deaf education (provide references)
 - All references should be cited in APA format
4. Two professional letters of recommendation. Send to: TWU Communication Sciences and Disorders Department at P.O. Box 425737, Denton, TX 76204. Letters should address applicant's academic strengths, and characteristics that would make the individual an effective teacher. References who can attest to your academic abilities and strength as a candidate for graduate school are strongly encouraged.
5. For students seeking teacher certification at Texas Woman's University the following test scores are required:
 - THEA- (Must meet these minimum scores or higher) Reading 260, Writing 240, Math 240 OR
 - Accuplacer- (Must meet these minimum scores or higher) Reading 80, Writing 82, Math 65, Essay 6 AND
 - SAT- Verbal 500, Math 500, Composite 1070 OR
 - ACT- Verbal 19, Math 19, Composite 23. Scores may not be more than five years old.
6. Student Records requirements:
 - Graduate School Application and \$50.00
 - All transcripts (Send to Student Records)
 - GRE scores are required for admission. Preferred minimum scores of 400 quantitative (140, Revised GRE) and 550 verbal (156, Revised GRE) are recommended. Previously taken GRE scores are accepted if original copies of the scores can be provided.

Please send the above information to:

Texas Woman's University
Student Records
P.O. Box 425649
Denton, TX 76204

Education of the Deaf Program Retention Requirements

Graduate students should be familiar and comply with the University Student Code of Conduct. Failure to adhere to this code of conduct may result in dismissal from the graduate program.

Students must maintain a 'B' average or better (3.0 or better) in all graduate courses on their degree plan to be retained in the graduate program. A student who receives a grade of 'C' or lower in a required course will be required to repeat the course, but it may be repeated only one time, and only one course may be repeated. Any student who receives a second grade of 'C' will be removed from the program. Each graduate student should read the Graduate Handbook for Education of the Deaf carefully. Failure to adhere to the stated policies may result in dismissal from the graduate program.

Any student who feels that they have been dealt with unfairly in the Department should follow the Departmental guidelines for resolving problems or issues as established by the Department's Issues and Grievance Committee.

Education of the Deaf Program Requirements for a Master's Degree

1. A minimum of 36 hours are required for those seeking a graduate degree in Education of the Deaf. Those individuals seeking a degree with an undergraduate major other than COMS or those without current teacher certification coursework may be required to take additional credit hours.
2. All students must successfully complete a Comprehensive Exam prior to their Student Teaching or Practicum experience. Successful completion of the exam is mandatory 1) as a qualifying exam in order to participate in the Student Teaching or Practicum experience; and 2) as a program requirement for degree completion and graduation.

Certification Programs Offered

Speech-Language Pathology: Council on Academic Accreditation certified program. Graduates who pass the national examination and successfully complete their clinical fellowship year are eligible for the ASHA Certificate of Clinical Competence and State Licensure.

Education of the Deaf: Graduates who successfully pass the state TExES exam are eligible for Texas Teacher Certification in Education of the Hearing Impaired. Out-of-state students must meet the unique requirements of their state for teacher certification.

Minors Offered to Students from Other Departments

None

Courses of Instruction in Communication Sciences and Disorders

COMS 5003. Research in Communication Sciences. The process of inquiry and research modalities and techniques; applications in the field of Communication Sciences, and preparation of thesis/professional paper proposals. Three lecture hours a week. Credit: Three hours.

COMS 5011. Ethics and Clinical Procedures. Professional and Ethical standards for SLPs and assistants; focus on ethics, HIPAA and Infection Control; clinical procedures and paperwork. One lecture hour per week. Credit: One hour.

COMS 5013. Fundamentals of Audiology. Basic anatomy and physiology of the auditory system, assessment of hearing loss, and a review of assistive listening devices and their use. Credit: Three hours.

COMS 5023. Developmental Psycholinguistics. Theories, practices and milestones associated with the social, cognitive and linguistic development. Three lecture hours a week. Credit: Three hours.

COMS 5033. Anatomical and Physiological Bases of Communication. Basic anatomy and physiology of the speech mechanism, including a study of English phonemes and orthographic systems used to represent them. Credit: Three hours.

COMS 5052. Fundamentals of Communication Disorders. (By permission only.) A detailed review of major theories, evaluation and intervention strategies used to habilitate and rehabilitate those with communication disorders. Two lecture hours a week. Credit: Two hours.

COMS 5123. Family-Centered Early Education for Children with Hearing Loss. Programming for children from birth to five with hearing loss. Examination of EHDI systems and IDEA legislation, identification process, early intervention/childhood programming. Family-centered approach to support communication and early learning via research-based practices. Three lecture hours a week. Credit: Three hours.

COMS 5211. Counseling and Professional Communication. Interviewing, counseling, and communicating with clients with communication and swallowing disorders and their families in a variety of settings. Strategies for communicating with other professionals. One lecture hour a week. Credit: One hour.

COMS 5232. Language Disorders in Preschool Children. Evaluation and evidence-based treatment of early-developing language skills of children with primary or secondary language disorders. Two lecture hours a week. Credit: Two hours.

COMS 5303. Differentiated Instruction. Information for teaching students with hearing and other disabilities or those mainstreamed into regular education classes. Credit: Three hours.

COMS 5311. Multicultural Issues and Mentoring. Critical strategies and evidence-based practice in supervising and providing feedback to supervisees; service delivery issues in culturally and linguistically diverse populations; sensitivity to multiculturalism in the clinical practice of SLP. One lecture hour a week. Credit: One hour.

COMS 5322. Augmentative Communication. Identification, legal descriptions and implications of alternative augmentative communication (AAC) systems. Methods of evaluation and ‘feature matching’ between the client and the AAC system. Treatment procedures and lesson plans for students using AAC systems. Two lecture hours a week. Credit: Two hours.

COMS 5333. Assessment and Diagnosis of Communication. A comprehensive study of the evaluative and assessment processes in speech-language pathology including the techniques and materials used to diagnose various communicative disorders in children and adults. Three lecture hours a week. Credit: Three hours.

COMS 5353. Adult Dysphagia. Principal issues and research concerning the nature, assessment and treatment of swallowing disorders in adults. Three lecture hours a week. Credit: Three hours.

COMS 5403. Facilitating Speech and Language Development Through Teaching Content Information. Principles and methods involved in facilitating speech and language development in association with mathematics, social studies, and science etc., to deaf/hard-of-hearing in school programs. Three lecture hours a week. Credit: Three hours.

COMS 5413. Advanced Clinical Practicum II. Assessment and management of clients with speech, language, and hearing disorders under supervision of ASHA certified supervisors. Prerequisites: Permission of Department. Minimum eight laboratory hours a week. Credit: Three hours.

COMS 5452. Pediatric Dysphagia. Principal issues and research concerning the nature, assessment, and evidence-based treatment of swallowing disorders in children. Prerequisite: COMS 5353. Two lecture hours a week. Credit: Two hours.

COMS 5483. Neuronal Pathways of Communication. Neuronal pathways emphasizing sensory motor mechanisms involved with audition, vision, tactile-kinesthesia, speech, and language. Prerequisite: Permission of instructor required for non-communication sciences majors. Three lecture hours a week. Credit: Three hours.

COMS 5511. Advanced Language Disorders. Evidence-based assessment and treatment of children’s language deficits associated with intellectual disabilities, sensory deficits, environmental components and neurological disorders such as autism. Prerequisite: COMS 5603. One lecture hour a week. Credit: One hour.

COMS 5513. Instructional Processes in Deaf Education. Pedagogical issues of providing effective instruction of content areas to deaf and hard of hearing students. Three lecture hours a week. Credit: Three hours.

COMS 5523. Speech Science. Basic vocal tract mechanisms with emphasis on respiratory, phonatory, resonatory, speech perception and acoustic aspects of speech and speech laboratory work in analysis of speech using various instrumental methodology. Three lecture hours a week. Credit: Three hours.

COMS 5542. Fluency Disorders. Etiology, evaluation, and evidence-based treatment of fluency disorders in children and adults. Two lecture hours a week. Credit: Two hours.

COMS 5553. Speech Sound Disorders. Etiologies, evaluation and evidence-based therapy approaches for articulation and phonological disorders. Three lecture hours a week. Credit: Three hours.

COMS 5583. Seminar in Neurological Disorders. Nature, evaluation, and treatment of speech and language disorders related to neurological disorders. Prerequisite: COMS 5483. Three lecture hours a week. Credit: Three hours.

COMS 5603. Language Disorders in School-Age Children. Principal issues and research concerning the nature of language disorders in school-age children; assessment and treatment of such disorders. Prerequisite: Permission of instructor required for non-communication sciences majors. Three lecture hours a week. Credit: Three hours.

COMS 5643. Advanced Neurological Disorders. Advanced clinical considerations for assessment/treatment of aphasia and acquired speech disorders. Includes medical aspects of speech-language pathology, neuroimaging, neuromodulation, and counseling techniques. Required prior to or concurrently with clinical placement at the TWU Stroke Center-Dallas. Prerequisite: COMS 5483. Three lecture hours per week. Credit: Three hours.

COMS 5663. Problems in Teaching Language to the Deaf or Hard of Hearing. Basic English grammar, child language acquisition based upon transformational theory. Emphasis is on implications of linguistic theory to teaching language to deaf or hard of hearing children based upon analysis of syntactic ability. Three lecture hours a week. Credit: Three hours.

COMS 5683. Problems in Teaching Speech to the Deaf or Hard of Hearing. Critical issues related to teaching speech to deaf or hard of hearing children for the speech-language pathology student. A study of processes and structures involved in speech production. Methods used in teaching speech to the deaf or hard of hearing. Three lecture hours a week. Credit: Three hours.

COMS 5722. Voice and Resonance Disorders. Physiological process of voice production as related to voice and resonance disorders; differential diagnosis and evidence-based treatment procedures in both medical and behavioral arenas. Prerequisite: COMS 5523. Two lecture hours a week. Credit: Two hours.

COMS 5753. History and Current Trends in the Education of Deaf/HH Learners. Current trends and practices that affect the education of children who are deaf/hard of hearing; history of deaf education including Deaf culture and its influence upon deaf education. Three lecture hours a week. Credit: Three hours.

COMS 5783. Graduate Field Experience of the Deaf. Field experience in education of the deaf, types of teaching, professional ethics, and effective teaching practices. Eight lab hours a week. Credit: Three hours.

COMS 5793. Aural Habilitation and Advanced Speech Disorders. Neurological aspects of motor speech disorders and other challenging speech disorders including etiology, evaluation and evidence-based treatment for children who are deaf or hard of hearing. Three lecture hours a week. Credit: Three hours.

COMS 5803. Parent-Professional Communication Strategies. Theories related to effective communication, active listening, and the grieving process as they relate to handicapped children and their parents; techniques with individual family members. Three lecture hours a week. Credit: Three hours.

COMS 5823. Literacy Development for the Hearing Impaired. Literature review of theories, evaluation and intervention strategies associated with the development of literacy in hearing and hearing-impaired children. Credit: Three hours.

COMS 5853. Teacher Friendly Assessment Strategies. An advanced course in assessment strategies designed for use by classroom teachers working with students who are experiencing serious problems learning English. Three lecture hours a week. Credit: Three hours.

COMS 5903. Special Topics. Research and review of literature on selected topics dealing with communication disorders. Topic will vary from semester to semester. Three lecture hours a week. Credit: Three hours.

COMS 5911. Independent Study. Individual study of specific problems. Prerequisite: Permission of instructor. Credit: One hour.

COMS 5913. Independent Study. Individual study of specific problems. Prerequisite: Permission of instructor. Credit: Three hours.

COMS 5973. Professional Paper. An in-depth study and/or review of a specific problem jointly selected by student and instructor; intensive laboratory or library research into the topic with a professional paper presenting the results of this research. Credit: Three hours. May be repeated for a total of six hours' credit.

COMS 5983. Thesis. Prerequisite: COMS 5003. Credit: Three hours.

COMS 5993. Thesis. Prerequisite: COMS 5983. Credit: Three hours.

Health Care Administration Program – Houston Center

Program Director: Gerald R. Goodman, Professor

Location: IHSH 7010

Phone: 713-794-2061

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Website: www.twu.edu/health-care-administration/

Faculty: Professor G. Goodman; Associate Professor K. Tsai; Assistant Professor A. Selcer; Assistant Clinical Professor M. Phelps.

Graduate Degree Offered

Master of Healthcare Administration (M.H.A.)

Graduate Certificate Offered

Post-baccalaureate Certificate in Health Care Management

The master's degree program in Health Care Administration prepares graduates for management positions in the variety of firms and organizations that comprise the health services industry. The industry is undergoing rapid and dramatic change. Therefore, the faculty seeks to prepare managers who possess the tools and knowledge that will enable them to analyze problems, formulate solutions, and implement decisions to guide their organizations through dynamic times. The course of study will encourage development of the student's personal and leadership potential by fostering attitudes of lifelong learning, and social and ethical responsibility. The Houston M.H.A. program is accredited by the Commission on Accreditation of Healthcare Management Education (CAHME). The certificate in Health Care Management is not subject to accreditation by CAHME.

The program achieves its goals by:

1. Offering flexible educational opportunities to working students, with particular awareness of the needs of women and minority students.
2. Contributing to the effectiveness of the health care delivery process through faculty and student research and technical consultation.
3. Enhancing the profession of health services through active participation of faculty and students in support of professional health service management associations.

The Health Care Administration curriculum provides professional education in both basic and applied health administration. This educational focus involves providing knowledge and skills required for health services managers to function successfully in a complex and rapidly changing environment. The broad content areas include:

Health Systems Organization, Policy and Operations – History and organization of the health care system, financing, and utilization of health services, health status and disease occurrence, legal aspects of health care and medical sociology. Government health policy formulation and implementation and its impact on health care organizations.

Finance, Economics and Accounting – Accounting and financial management tools for health care administrators, budgeting, financial analysis, costing, variance analysis, capital structure and performance measurement. Fundamentals of microeconomic theory, economic determinants of health, markets for medical care and health insurance, economic analysis in decision making.

Management of Health Services Organizations – Organization theory and behavior, health care planning and marketing, human resource management, and leadership, managerial communications, ethics, legal applications for managers, information systems and strategic management.

Quantitative Methods – Application of statistical methods to solving health care management problems, operations research, research design and analysis, epidemiology, and performance and quality assessment.

Admission Requirements

Admission for graduate study in Health Care Administration is available to applicants who have attained an undergraduate degree with a GPA in the final 60 hours of 3.0 or greater. Applicants who have undertaken prior graduate study must also have achieved a minimum of 3.0 GPA. In addition, successful applicants will submit evidence of outstanding academic and work or life experiences that demonstrate potential for leadership in the health services environment. Prior health care experience (employment, internship or volunteer) is preferred but not required.

Provisional admission may be considered for an applicant who did not attain an undergraduate GPA of 3.0 but who demonstrates potential for graduate study based on GRE/GMAT scores, as well as work and/or life experiences that show evidence of leadership qualities. Provisional admission is not guaranteed and will be based on an evaluation of the applicants' record of accomplishments and potential. Students admitted provisionally must achieve a grade of 'B' or better in each course taken during the first 12 course hours of study. Failure to meet the conditions of provisional admission will result in removal of the student from the degree program without possibility for readmission to this program.

**Applicants may request a waiver of the GRE/GMAT requirements when applying to the Health Care Administration program. Waivers may be granted if the applicant*

has completed a graduate degree from an accredited US college or university with a grade point average of at least a 3.0.

Due Dates for Completed Applications for US residents:

May 30 for Fall semester

September 30 for Spring semester

March 1 for Summer semester

Applicants identified by the University as international applicants must adhere to earlier deadlines. These deadlines are identified in the international student section of this catalog.

All applicants must submit the required documentation in the following manner:

Application Documents:

- Application
- Transcripts for all previous coursework
- GRE or GMAT Scores
- TOEFL Scores (for international students)

Send Application Documents To:

Texas Woman's University
Student Records
P.O. Box 425649
Denton, TX 76204

Resume Documents:

- Resume
- Three Letters of Recommendations
- Career Goal Statement

Send Resume Documents To:

Texas Woman's University
Program in Healthcare Administration
6700 Fannin
Houston, TX 77030

Advanced standing may be granted to applicants who hold a prior master's or doctoral degree from an accredited U.S. university. This advanced standing means that an applicant may request and be eligible for waiver of certain foundation or core courses, in addition to the GRE/GMAT waiver as described above. It is the responsibility of the applicant to make the request for specific course waiver or transfer credit. In addition the applicant must submit evidence of equivalent prior

course work. Waivers are not automatic and are made on a case by case basis by examination of the content of each course requested for waiver/transfer credit. Each course accepted for transfer credit and waiver of a required core course must have been completed within the 6 years of the date the M.H.A. degree is to be awarded. Otherwise these courses must be repeated.

Students who have completed the M.B.A., E.M.B.A. or M.H.S.M. degree at Texas Woman's University may be eligible for award of up to 12 hours of transfer credit toward the M.H.A. degree subject to Graduate School policies.

Non-Degree Admission: The Health Care Administration Program does not normally admit students for non-degree status. The exception is those cases where TWU-HCA has a formal agreement with another University or another TWU department to allow limited enrollment for a specific purpose.

Orientation requirement: The Health Care Administration Program holds orientation for new students in the fall and spring semesters. It is a requirement that all new students must attend one of these sessions. Information is given at these sessions that will enhance the student's learning experience.

Deferral: Students may request deferral of admission date up to one year due to personal circumstances. No additional deferrals will be granted and the applicant must reapply.

General Requirements

Foundation courses: Foundation courses are the first level of preparation for specialized study in Health Administration. Applicants may request a waiver of any foundation courses by presenting evidence of having completed at least 2 undergraduate or one graduate course in the content area with a grade of 'B' or better. The following courses or equivalent will satisfy this foundation requirement. These courses must be completed prior to enrolling in core courses.

HCA 5001 Health and Disease

HCA 5103 Foundations of Health Services

HCA 5213 Managerial Communications

HCA 5223 Organization Theory

HCA 5463 Research Methods for Managerial Decision Making

HCA 5513 Financial Accounting

Total Hours Required: Minimum of 45 hours of core courses and 6 hours of electives, but requirements may exceed this number depending upon prior academic preparation, student experience, and career objectives.

Core Courses: (Individual course plans may vary)

HCA 5193 Health Law
 HCA 5253 Organizational Behavior in Health Care Administration
 HCA 5343 Human Resource
 HCA 5363 Leadership and Career Development in Health Care
 HCA 5372 Ethical Analysis in Health Services
 HCA 5373 Strategic Health Care Management and Planning
 HCA 5462 Operations Analysis
 HCA 5472 Health Information Management
 HCA 5483 Epidemiological Models for Health Services Management
 HCA 5493 Performance Measurement and Quality in Health Care
 HCA 5533 Management Accounting for Health Care Organizations
 HCA 5543 Health Care Finance
 HCA 5623 Economics of Health Care
 HCA 5633 Health Policy Analysis
 HCA 5933 Capstone in Health Care Administration
 HCA 5973 Professional Project

Portfolio: Each student is required to develop and maintain a professional portfolio documenting the attainment of goals and skills acquired in the course of their graduate study. This portfolio and student goals are developed jointly by the student and advisor. The portfolio is to be reviewed periodically with the advisor. Students must enroll in HCA 5973 Professional Project during their final semester to complete their portfolios.

Exit Exam: Each graduating student will be required to complete a final exam covering core health administration content and competencies.

Electives: Students, in consultation with a faculty advisor, will select at least 6 hours of approved elective courses in order to obtain additional breadth or depth in a particular field of Health Care Administration study. Electives from other TWU departments or other Universities may be approved with permission from the advisor if they meet the criteria as related to the study of HCA and student's career goals. However transfer credits from other Universities or Departments are subject to limits established by the graduate school.

Fieldwork Opportunities: Internships and field experiences are available with health care organizations. They are designed to provide students with the opportunity to integrate and apply knowledge and skills from their course experiences. While fieldwork is not required, it is strongly recommended for all individuals who lack health care experience or whose experience is primarily technical or clinical. The decision regarding whether the fieldwork should be included as one of the elective courses is made jointly by the faculty advisor and student at the completion of 12 core course hours of study. In addition many courses include fieldwork projects, tours and assessments of local health care organizations. A maximum of 3 semes-

ter credit hours may be earned in fieldwork or internship and applied toward the degree. In order to receive academic credit for fieldwork the student must contact his/her faculty advisor and complete the necessary documentation with the HCA field work coordinator prior to applying or accepting a fieldwork assignment.

Course Method and Delivery: Some courses in the program may be delivered in a non-traditional distance learning format. As a result, student involvement on campus will vary depending on method of delivery.

M.H.A./M.B.A. Degree Program Agreement

By special agreement, students in the Health Care Administration program of Texas Woman's University are provided an opportunity to obtain an M.B.A. through the Cameron School of Business at the University of St. Thomas. Students obtain both the fundamental set of health services management skills through the M.H.A. and specialized training provided by the M.B.A. program. Students first apply and are accepted into Texas Woman's University M.H.A. program. Students interested in this option must contact the graduate admissions advisor at the UST Cameron School of Business in order to determine specific course requirements needed to complete the M.B.A. degree and TWU-HCA courses that will qualify for waiver of required M.B.A. courses.

Certificate in Health Care Management

The Department of Health Care Administration offers a post-baccalaureate Certificate in Health Care Management that provides students with a foundation of knowledge necessary for a successful career in health care management. The core educational component comprises approximately 19-22 hours depending on prior academic preparation and student career goals. Students who have successfully completed the certificate program and wish to pursue a master's degree in health care administration at TWU, at a later date, may apply certificate credit hours toward their degree requirements. However all core course work for the M.H.A. master's degree must be completed within a six-year period. This includes transfer credits as well as M.H.A. degree requirements. Certificate students, who desire to pursue the M.H.A. degree, must submit a separate application and apply as an M.H.A. degree seeking applicant and must complete all of the same admission/application requirements as any other student. Only courses with a grade of 'B' or better will apply toward M.H.A. degree course requirements.

Admissions Requirements – Certificate

Applicants will have completed a baccalaureate degree preferably in a field related to the certificate program. Such related fields include business, nursing, physical or occupational therapy, nutrition and food sciences, health studies, and health administration. Related fields also include dental hygiene, laboratory or

radiologic technology, biology, and chemistry. Applications for the certificate program must be received by:

May 30 for fall semester enrollment
 September 30 for spring semester enrollment
 March 1 for summer semester enrollment

The program requires that applicants submit:

1. An application for admission to the certificate program and appropriate fees to the Office of Student Records;
2. Evidence of an earned bachelor's degree with a GPA of 3.0 in the last 60 hours and complete official transcripts of all undergraduate and graduate study to the Office of Student Records Processing;
3. Resume to the Department of Health Care Administration;
4. Three letters of reference to the HCA Department;
5. Provide a statement of your goals and reason for seeking a certificate.

Other Options:

M.B.A., M.H.S.M., E.M.B.A. and M.H.A. Degrees

TWU offers the Master of Business Administration (M.B.A.), Master of Health Systems Management (M.H.S.M.), Executive Master of Business Administration (E.M.B.A.) and Master of Health Care Administration (M.H.A.) degrees. These degrees are offered by separate colleges and require a separate application process for each degree program. The E.M.B.A., M.B.A., and M.H.S.M. degrees are offered by the School of Management; and the M.H.A. is offered by the College of Health Sciences Houston campus only. Students desiring both M.B.A. and M.H.A. degrees must apply and be accepted by each program/school separately. Acceptance in the M.B.A./M.H.S.M. dual-degree program does not guarantee acceptance into the M.H.A. program offered by Health Care Administration (HCA) Houston and vice versa. Students who wish to pursue both degrees must apply separately to each program and fulfill admission requirements defined by each program.

The Executive Master of Business Administration (E.M.B.A.) program offers a health care concentration in Health Systems Management; in addition, the School of Management offers a Master of Health Systems Management. The concentrations, as well as, the M.H.S.M. degree are available only on the Dallas campus or online through the School of Management HSM course work. Students cannot enroll in HCA-Houston courses to fulfill the concentration requirements.

Applicants may request waiver of courses completed in either the M.B.A., M.H.S.M. or M.H.A. programs toward a second degree plan. These are generally limited to no more than 12 semester hours and require individual departmental approval. Transfer credits are not guaranteed and are evaluated on a case-by-case basis. The applicant must have completed the course for which waiver is requested with

a grade of 'B' or better. Students who have not successfully completed all requirements of the E.M.B.A. program will be required to submit tests scores from the GRE or GMAT for consideration of admission into the M.H.A. program. Students who have successfully completed all requirements and earned the M.B.A. or M.H.S.M. degree will be waived from the GRE/GMAT requirement. For additional information review the following web sites: www.twu.edu/health-care-administration and www.twu.edu/som.

Course Requirements for Certificate

Students will learn about the organizational structure and operations of the health care system, and gain expertise in managing both human and financial resources. In addition to these fundamentals, students will be exposed to the ever-present social responsibility and ethical concerns facing those in decision-making roles.

Courses of Instruction in Health Care Administration

HCA 5001. Concepts of Health and Disease for Administrators. Major body systems, definitions of health, illness, disease, pathogenesis, disability, and death. Roles and responsibilities of health care team members in the processes of diagnosis, treatment and monitoring. Structures, functions and disease processes of the human body systems and fundamental medical terminology. Designed for the graduate level student with little or no prior clinical experience. Self instructional methods will be utilized for practice and mastery of medical vocabulary, and the structure and functions of body systems. One lecture hour a week. Credit: One hour.

HCA 5103. Foundations of Health Services. Structure and operation of U.S. health industry and the political and social environment in which it exists. The health system will be analyzed in terms of cost, access, availability, quality, and appropriateness. Topics include the role of government in regulating health services; health insurance; types, categories and functions of various health organizations in the health care continuum; and human resources. Three lecture hours a week. Credit: Three hours.

HCA 5193. Health Law. American legal system, and its principles and processes; public health law; institutional and professional liability; informed consent; physician-patient relationships, forensic medicine; legislative activities; and controversial medical, legal, and ethical issues. Prerequisites: HCA 5103 or permission of instructor. Three lecture hours a week. Credit: Three hours.

HCA 5213. Managerial Communications. Preparation of managers and leaders for the communication challenges of the workplace. Development and demonstration of effective, business-oriented oral and written skills. Emphasis on organization and delivery of professional presentations, use of effective visual support, and business writing. Three lecture hours and one laboratory hour a week. Credit: Three hours.

HCA 5223. Organization Theory and Health Care Management. Application of organization theory and concepts to health services organizations. Topics include governance, competitive environment, distinctive attributes of health care organizations, vision, mission, goals and strategies, systems thinking, organization structure and design, organizational effectiveness, change management, planning, and management roles. Three lecture hours. Credit: Three hours.

HCA 5253. Organizational Behavior in Health Care Administration. Application of theories and concepts of management and organizational behavior to health services organizations. Topics include personality, motivation, decision making, stress, interpersonal and group dynamics, communication, leadership, power, conflict and organizational culture. Prerequisites: HCA 5213 and HCA 5223 or permission of instructor. Three lecture hours a week. Credit: Three hours.

HCA 5343. Human Resources Management for Health Services. Human resources management issues, including strategic role of job analysis and design, recruitment, retention, diversity, performance appraisal, termination, recognition, compensation and development, and Human Resources legal issues relevant to health care organizations. Prerequisites: HCA 5253, HCA 5213, HCA 5103 or permission of instructor. Three lecture hours a week. Credit: Three hours.

HCA 5363. Leadership and Career Development in Health Care Administration. Development of leadership potential by strengthening abilities in creative thinking, interpersonal team skills, communication skills, diversity, negotiation and conflict management. Improvement of personal effectiveness by goal setting, establishing networks and using interviewing techniques. Use of self assessments, and group projects with outside clients. Students prepare portfolio notebook and present to independent evaluators. Prerequisite: Completion of HCA 5253 and completion of 12 hours of HCA courses. Three lecture hours a week. Credit: Three hours.

HCA 5372. Ethical Analysis in Health Services. Identification of values and ethical issues in health care administration. Application of ethical principles and theories of decision-making in analysis of ethical dilemmas. Topics include moral basis of ethics, organizational philosophy, duties, conflict of interest, confidentiality, resource allocation, end-of-life, and other biomedical and administrative issues. Prerequisites: HCA 5103, HCA 5253 or permission of instructor. Two lecture hours a week. Credit: Two hours.

HCA 5373. Strategic Health Care Management and Planning. Strategic management techniques in health care organizations. Emphasis on analyzing the environment, developing mission and goal statements, strategy formulation and, implementation, market research and business planning. Analyze and interpret epidemiologic, market and financial information. Prerequisite: Permission of instructor. Three lecture hours a week. Credit: Three hours.

HCA 5462. Operations Analysis. Concepts, techniques and managerial approaches for improving performance. Topics include productivity, efficiency evaluation, forecasting, project management, simulation, quality management (CQI-TQM, six-sigma), yield, waiting time, inventory management, strategy, and decision making. Prerequisite: HCA 5463. Two lecture hours a week. Lab one hour.

HCA 5463. Research Methods for Managerial Decision Making. The role and function of quantitative methods in health services decision making. Research methods and models will serve as an integrating theme to the use of managerial decision making tools to solve health care delivery problems. Topics include: problems identification and developing research questions, research design and methodology, statistical data analysis tools and techniques, and ethical issues in research. Three lecture hours and one laboratory hour a week. Credit: Three hours.

HCA 5472. Health Information Management. The role of information systems in health care organizations. Topics include planning information processing, clinical and administrative systems, methods to support decision making, vendor evaluation and selection and information systems project management. Prerequisites: HCA 5103, HCA 5223 or permission of instructor. Two lecture hours a week. Credit: Two hours.

HCA 5483. Epidemiological Models for Health Services. Basic measures and determinants of epidemiology; incorporation of research findings into management decisions. Use of logic and assumptions to assess and understand the health status of populations, the determinants of health and illness, and the factors that influence the delivery and use of health services. Social epidemiology including social and behavioral aspects of health and illness, utilization of health services, patient and practitioner roles. Prerequisites: HCA 5463, HCA 5103 or permission of instructor. Three lecture hours a week. Credit: Three hours.

HCA 5493. Performance Measurement and Quality in Health Care Administration. Basic measures and analysis of processes for quality and performance assessment utilizing qualitative and quantitative methods. Development of skills in evaluation methods and performance management with particular emphasis on the management of quality. Standard setting, performance assessment processes, and CQI/TQM. Prerequisites: HCA 5463, and HCA 5483 or permission of instructor. Three lecture hours and one laboratory hour a week. Credit: Three hours.

HCA 5513. Financial Accounting in Health Care Administration. Principles of accounting; types of financial statements; recognizing and measuring transactions; assets, liability and equity accounts; fund accounting, cash flow statements; financial statement analysis and time value of money. Three lecture hours a week. Credit: Three hours.

HCA 5533. Management Accounting for Health Care Organizations. Principles and methods of cost allocation, job costing, cost-volume profit analysis, budgeting, variance analysis, profitability analysis and relevant costs for decision-making. Prerequisites: HCA 5513 Financial Accounting. Three lecture hours a week. Credit: Three hours.

HCA 5543. Health Care Finance. Principles, concepts, and use of the financial skills of net present value, financial analysis and forecasting, risk, cash and capital budgeting, stock and bond valuation, lease analysis, receivables management, business and merger valuations and healthcare premium development. Prerequisites: HCA 5513 Financial Accounting, HCA 5533 Management Accounting for Health Care Organizations. Three lecture hours a week. Credit: Three hours.

HCA 5623. Economics of Health Care. Application of microeconomics principles to problems of resource allocation of health care products, services, and labor. Development of a foundation for understanding and evaluating health policy and its impact. Prerequisites: HCA 5513 Financial Accounting Health Care Administration. Three lecture hours a week. Credit: Three hours.

HCA 5633. Health Policy Analysis. Definitions of health policy and the process of policy making. Impact of values on policy, and the role of interest groups and political influence. Framework for analyzing policy and methods using the tools of economics to examine health system change. Prerequisites: HCA 5623, completion of 12 Core hours in Health Care Administration program or permission from instructor. Three lecture hours a week. Credit: Three hours.

HCA 5712. Managing the Hospital Setting. Examination of the American community hospital within the context of the social, political and economic environment. Review of the operational aspects of hospital administration from the perspectives of each key stakeholder. Topics include definition of organization structure, interaction of components, governance, financing, medical staff, nursing services, clinical support services, operational and service support, human resources and quality management. Prerequisites: Completion of 12 semester hours of HCA Core courses or permission of instructor. Two lecture hours a week. Credit: Two hours.

HCA 5722. Managing the Long-Term Care Setting. Demographic, social, political and organizational aspects of long-term care services. The course has three primary goals: to understand the process of aging and the social, psychological and medical needs of the population; to identify various populations at risk of requiring long-term care; to provide students with the knowledge and skills to successfully manage the variety of long-term care facilities which exist. Topics include long-term care system, financing care, need assessment, disabled population, types of services, management issues, nursing home operations, residential facilities, home health, hospice, and future directions. Prerequisite: Completion of 12 semester hours of HCA core courses or permission of instructor. Two lecture hours a week. Credit: Two hours.

HCA 5732. Managing the Outpatient Setting. Approaches for providing care in the outpatient setting to include hospital and free-standing ambulatory care facilities, and single specialty and multi-specialty physician practices. Types of settings, finance, accounting, and human resource management. Prerequisites: Completion of 12 semester hours of HCA Core courses or permission of instructor. Two lecture hours and one laboratory hour a week. Credit: Two hours.

HCA 5742. Alternative Systems of Health Care Delivery. Analysis of the evolving relationships between the buyers, providers, insurers, patients, and regulators of health services. Focus will be on the dynamic process that influences the organization for delivery, price, utilization, quality, and accountability. Examination of the historical development of the U.S. and comparative health systems will be conducted. Topics include delivery systems, managed care trends, legal and regulatory issues, provider-payer-patient perspectives, insurance products, organizational structures, pricing and reimbursement strategies, quality, and utilization control. Prerequisite: Completion of 12 semester hours of HCA Core courses or permission of instructor. Two lecture hours a week. Credit: Two hours.

HCA 5752. Development of Health Facilities. Examination of the physical aspects of planning, design and construction of health facilities. Emphasis is placed on the process and participants involved in the development of buildings to serve the health care industry. Topics include facility planning, methods of project delivery, role of owner, architect and building contractor, construction scheduling, cost estimating, and site analysis. Students will create and present their own facility design. Prerequisite: Completion of 12 semester hours of HCA Core courses or permission of instructor. Two lecture hours a week. Credit: Two hours.

HCA 5762. Marketing for Health Services. Presents the role of marketing in the process of purchasing and providing health care services. Focuses on the broad view of marketing as a means of identifying and delivering value to both the provider and consumer of services. Topics include marketing philosophy, market research, identifying the customer, business and service delivery, market segmentation, and business development. Prerequisite: Completion of 12 semester hours of HCA Core courses or permission of instructor. Two lecture hours a week. Credit: Two hours.

HCA 5772. Seminar-Finance and Accounting in Health Care Administration. Identification and development of financial models and solutions. Analysis of cases related to complex health care accounting and financial management issues. Prerequisites: HCA 5513 Financial Accounting, HCA 5533 and HCA 5543. Two lecture hours a week. Credit: Two hours.

HCA 5782. Interdisciplinary Models of Health Care Delivery. Addresses the evolving role of the health care team and strategies team members can use in providing comprehensive, quality care to the health care consumer. Topics include rationale for the interdisciplinary approach, re-engineering and work redesign, professional autonomy, cross-training and group dynamics. Two lecture hours a week. Credit: Two hours.

HCA 5902. Issues and Trends in Health Administration. Group study of current issues and trends in Health Care Administration. Prerequisite: Permission of advisor. May be repeated for credit with different topics. Two lecture hours a week. Credit: Two hours.

HCA 5911. Individual Study in Health Care Administration. Advanced work in a specialized field of Health Care Administration. Prerequisite: Permission of advisor. Credit: One hour.

HCA 5912. Individual Study in Health Care Administration. Advanced work in a specialized field of Health Care Administration. Prerequisite: Permission of advisor. Credit: Two hours.

HCA 5933. Capstone in Health Care Administration. Final course in the HCA curriculum focusing on the integration of knowledge and application of theories, models and techniques from preceding courses in the management of a health services organization. Decision making involving strategic, human resources, financial, planning and operations. Prerequisite: Completion of all required HCA courses. Three lecture hours a week. Credit: Three hours.

HCA 5941. Fieldwork in Health Care Administration. Field experience in a health care organization under the supervision of a selected health care administrator and faculty. Project assignments are undertaken to integrate and apply administrative skills to practical problems. Prerequisite: Completion of 12 hours of core HCA courses and approval of faculty advisor. Four laboratory hours a week. Credit: One hour.

HCA 5942. Internship in Health Care Administration. Field experience in a health care organization under the supervision of a selected health care administrator and faculty. Project assignments are undertaken to integrate and apply administrative skills to practical problems. Prerequisite: Completion of 12 hours of core HCA courses and approval of faculty advisor. Eight laboratory hours a week. Credit: Two hours.

HCA 5951. Cooperative Education. Cooperative work-study arrangements between the University and selected institutions appropriate to the Health Care Administration program. The student will apply the ideas and processes learned in other courses in practical experience under cooperative supervision. Cooperative planning and evaluation are essential elements in the course. Available only to students employed in a management position in a health care setting. For one hour of credit, 4-8 hours of work per week are required.

HCA 5973. Professional Paper/Project. Independent research leading to the production of a written document of scholarly quality or production of a professional portfolio. Prerequisite: Permission of faculty advisor. Credit: Three hours.

Department of Health Studies

Chair: Gay James, Professor

Location: CFO 1006

Phone: 940-898-2860

Fax: 940-898-2859

E-mail: HealthStudiesInfo@twu.edu

Website: www.twu.edu/health-studies/

Faculty: Professor G. James; Associate Professors M. Massey-Stokes, R. Shipley, K. Wiginton; Assistant Professors D. Coyle, K. Crosslin, M. Golman, K. Parker, J. Terrell.

Mission Statement: The Department of Health Studies is dedicated to improving the health of communities by conducting research, teaching evidence-based practice, educating future health education/health promotion professionals, and developing leaders and scholars who translate research into practice. Through responsive, collaborative relationships with faculty, staff, students, alumni, schools, and populations, the department's purpose is to graduate professionals of high esteem who impact behavioral and social determinates of societal health.

Graduate Degrees Offered

M.S. in Health Studies

M.S. in Health Studies/M.L.S. in Library Science

Ph.D. in Health Studies

Master's Program

The Health Studies Master's Programs are built upon the Bachelor of Science in Health Studies Program's competencies as framed in the entry-level competencies of the National Commission for Health Education Credentials, Inc.'s 2006 Competency Update Project Model.

Master's Programs Goal: To prepare graduates to become health education leaders and practitioners in the profession.

Master's Programs Objectives: The Master's Programs curricula are designed to provide students with the knowledge and skills to:

- Apply these competencies in their professional work.
- Assess the health needs and interests of individuals, groups, and communities in relation to cultural, ethnic, and demographic factors.
- Plan, implement and evaluate health education and health promotion programs in a variety of settings.

- Approach health education and health promotion from a multicultural perspective and sensitivity to diversity.
- Develop appropriate strategies to effect positive health behavior among the groups or populations addressed.
- Coordinate the provision of health education services and serve as a resource person in health education and health promotion.

Courses are taught in a variety of delivery methods including traditional, online, weekend, and workshop formats. The online M.S. in Health Studies was approved to begin Fall 2005 by the Texas Higher Education Coordinating Board.

Dual Degree Program

Through a joint program of the Department of Health Studies and the School of Library and Information Studies, students may also pursue a dual master's degree in Health Studies and Library Science. This dual degree program prepares specialized professionals for careers in health sciences information services and medical library services, as well as in the field of health education and health promotion. Graduates of this program will have the combined professional expertise of both disciplines to address society's growing needs for health information stemming from the rapid advances in information technologies.

Doctoral Program

The Health Studies Doctoral Program is built upon the Bachelor of Science in Health Studies Program and Master of Science in Health Studies competencies as framed in the entry-level and advanced 1 level competencies of the National Commission for Health Education Credentialing, Inc.'s 2006 Competency Update Project Model.

Doctoral Program Goal: To prepare graduates to be effective health education leaders, researchers, and scholars in the profession.

Doctoral Program Objectives: The Doctoral Program curriculum is designed to provide students with the knowledge and skills to:

- Assess the health needs and interests of individuals, groups, and communities in relation to cultural, ethnic, and demographic factors.
- Plan and implement health education and health promotion programs in a variety of settings.
- Evaluate health education and health promotion programs in a variety of settings.
- Approach health education and health promotion from a multicultural perspective and sensitivity to diversity.
- Develop appropriate strategies to effect positive health behavior among the groups or populations addressed.

- Coordinate the provision of health education services and serve as a resource.
- Serve as an advocate to both the community and the profession.
- Critically analyze and communicate current and future health education and health promotion needs.
- Apply appropriate research principles and methods in health education and health promotion to make scholarly contributions to the profession.
- Apply ethical principles in the practice of health education and health promotion.

Admission Requirements

Applicants may be admitted for graduate study in the Department of Health Studies either unconditionally or provisionally. In addition to the general admission requirements presented in the admissions section of this catalog, the Department of Health Studies has established the following criteria for unconditional and provisional admission.

*Master of Science in Health Studies**

Unconditional admission:

1. A minimum GPA of 3.0 on a 4.0 scale for the last 60 hours of bachelor's degree coursework as evidenced by official transcripts.
2. A preferred minimum of 150 on the verbal portion and 140 on the quantitative portion of the Graduate Record Examination (GRE Revised), 4.5 on the analytic portion of GRE and, for international students, a minimum score of 550/213/79 on the Test of English as a Foreign Language (TOEFL).
3. Appropriate academic background and professional and volunteer experience for master's study in health studies as evidenced by a professional vita and CHES certification.
4. Two acceptable recommendations (**using the departmental recommendation forms**), **within the past 12 months** by faculty members, academic advisors, or employers.
5. Ability to express concepts and ideas in writing as evidenced in a 400 to 500-word typed essay.

Provisional admission:

For applicants who do not meet the minimum requirements for unconditional admission to the master's degree program, provisional admission will be considered, dependent upon the relative strength of the applicant's undergraduate GPA, GRE/TOEFL test scores, academic background, professional experience, and written

*For the dual master's degree program in Health Studies and Library Science, admission to the master's programs in both departments is required (see the admission requirements for the master's degree in Library Science presented in this catalog).

essay. A student's performance on graduate coursework taken prior to application for admission to the Health Studies master's degree program will be considered.

Doctor of Philosophy in Health Studies

Unconditional admission:

1. A GPA of at least 3.5 on a 4.0 scale on master's degree coursework, as evidenced by official transcripts.
2. A preferred minimum of 152 on the verbal portion and 140 on the quantitative portion of the Graduate Record Examination (GRE revised), 4.5 on the analytic portion of GRE and, for international students, a minimum score of 575 on the Test of English as a Foreign Language (TOEFL).
3. Appropriate academic background and professional and volunteer experience for doctoral study in health studies as evidenced by a professional vita and CHES certification (non CHES applicants see prerequisite or corequisites).
4. Two acceptable recommendations (using the departmental recommendation forms), within the past 12 months by faculty members, academic advisors, or employers.
5. Ability to express concepts and ideas in writing as evidenced in a 600-700 word typed essay.
6. A writing sample of no more than 5 pages from a thesis, professional paper, published paper, or research/academic paper.

Provisional admission:

For applicants who do not meet the minimum requirements for unconditional admission to the doctoral program, provisional admission will be considered, dependent upon the relative strength of the applicant's master's GPA, GRE/TOEFL test score, academic background, professional experience, and written essay.

General Requirements of Master's Degree

Total Hours Required: 42 hours consisting of:

18 hours core courses

9 hours focal area courses for thesis option and 12 hours for non-thesis option

9 hours research tools for thesis option and 6 hours for non-thesis option

6 hours thesis or 6 hours electives in lieu of a thesis for non-thesis option

remaining hours in electives

Major/Emphasis: 9-12 hours from one of three focal areas offered among higher education, community/population health, or worksite health.

Residence Requirement: None for Non-Thesis Option. For Thesis Option, campus visits are required to defend prospectus and again to defend final thesis.

Prerequisites or Corequisites: 1) A bachelor's degree in the field of health education/health promotion or related field and 2) new Master's program students will be required to successfully complete an orientation within the first year.

Final Examination: For thesis option the defense of thesis; for non-thesis option a written comprehensive core project on the core coursework is required. The project will be included as a portion of HS 5383. Final Project passing grade will be a minimum of 80%. The course may be repeated once if the minimum passing grade is not achieved.

General Requirements for Dual Master's Degree in Health Studies and Library Science

Total Hours Required: 54 consisting of:

Required Library Science Courses - 21 credits

- LS 5013 Information Storage and Retrieval
- LS 5083 Foundations of Library and Information Studies
- LS 5363 Health Sciences Information Resources
- LS 5473 Health Reference Information Sources and Services
- LS 5483 Consumer Health Information Resources
- LS 5043 Information and Communication Technology
- LS 5003 Collection Development

Required Health Studies Courses - 24 hours

- HS 5413 Current Issues
- HS 5353 Epidemiology
- HS 6443 Foundations in Health Science
- HS 5423 Ethnic and Cultural Factors in Health Decisions
- HS 6453 Strategies in Health Education Delivery
- HS 5383 Program Development and Coordination
- HS 5013 Data Collection
- HS Elective (three hours)

Dual Degree Requirements - 9 hours

- Graduate-level statistics course (3 hours)
- HS 5023 Methods in Health Education Research
- LS 5843 Practicum

Final Exams: For degrees take place in:

Health Studies – course project on the core coursework is required. The project will be included as a portion of HS 5383. Final Project passing grade will be a minimum of 80%. The course may be repeated once if the minimum passing grade is not achieved.

Library Science – LS Portfolio.

Admission Requirements:

- A minimum GPA of 3.0 on a 4.0 scale for the last 60 hours of bachelor's degree coursework.
- A preferred minimum of 150 on the verbal portion and 140 on the quantitative portion of the Graduate Record Examination (GRE revised)*; and, for international students, a minimum score of 550 on the Test of English as a Foreign Language (TOEFL).
- Professional vita indicating appropriate academic background and professional experience for master's study in health studies.
- Two acceptable recommendations (using the Health Studies departmental recommendation forms) within the past 12 months by faculty members, academic advisers, or employers.
- A 400 to 500-word typed essay.
- Admission to both programs

Major/Emphasis: none

Residence Requirement: Attendance at a minimum of one *HS online orientation* during the first year in the program.

Prerequisites or Corequisites from Masters's Degree above also apply to dual degree program.

General Requirements for All Doctoral Degrees

Total Hours Required: 96 hours beyond the bachelor's degree consisting of:

39 hours transferred or interdisciplinary graduate coursework

24 hours departmental *core* courses

9 hours *focal area* courses (see *Major/Emphasis*)

12 hours research tools (6 hours graduate-level statistics; 6 hours research methods)

6 hours dissertation

6 hours electives

Major/Emphasis: 9 hours from one of three focal areas: higher education, population health, or environmental health.

Interdisciplinary Studies and/or Transferred Hours: 39 hours of interdisciplinary study and/or hours transferred from the master's degree.

Minor: 12 to 18 hours.

Research Tools: 6 hours of research methods and 6 hours of statistics. Students pursuing research in qualitative research must also take a qualitative research methods course in addition to these 6 hours.

Prerequisites or Corequisites: 1) A prior degree in health education, health promotion, public health, or community health or HS 5413 Current Issues in Health Studies; 2) HS 5003 Practicum in Health Education must be taken after core courses are completed by students without CHES certification; 3) three hours of graduate-level research methods; and 4) new doctoral program students will be required to successfully complete an orientation within the first year.

Qualifying Examination: Candidates for the doctoral degree must pass a three-part qualifying exam, consisting of: 1) a multiple-choice statistics and research design examination, 2) a written multiple-question essay examination; and 3) an oral examination based on the candidate's written responses in the essay examination. The written essay and oral portions of the examination, taken when the candidate has completed all Health Studies core and focal area coursework, may be repeated only once. A student who fails a second qualifying exam will not be permitted to remain in the doctoral program.

Final Examination: Oral defense of dissertation.

Minors Offered to Students From Other Departments

For minors offered to students from other departments, the hour and course requirements are flexible, and are determined by major and minor committee members and the student's background and interests.

Courses of Instruction in Health Studies

HS 5003, 5006. Practicum in Health Education. Internship experiences with health-related agencies or in the development of an original contribution to teaching and learning materials. Three or six laboratory hours a week. Credit: Three or six hours.

HS 5013. Data Collection and Analysis. Overview of data collection and analysis. Covers health education principles such as age-adjustment, relative risk, vital statistics, life tables, and health surveys. Analyzing retrospective and prospective studies, specifically in health education. Three lecture hours a week. Credit: Three hours.

HS 5023. Methods in Health Education Research. *Required for Master's Thesis Option Only.* Focus on basic research skills including library skills, the reading and interpretation of research, writing style, research planning and design, methodologies, and research as they relate to health education. Prerequisite or Corequisite: One graduate-level statistic course. Three lecture hours a week. Credit: Three hours.

HS 5053. Psychosocial Aspects of Health. Emphasis on theory, research, and application of the interrelationships of the social and psychological aspects of health and wellness, including concepts of stress management and the impact of organizational factors. Three lecture hours a week. Credit: Three hours.

HS 5063. Aging and Health. Aging as part of the life cycle; special health concerns of the elderly; current life extending research and technology for successful aging. Three lecture hours a week. Credit: Three hours.

HS 5103. Principles and Methods of Teaching Health Professionals. Development of classroom and clinical teaching competencies with emphasis on identification of resources, planning and implementation of instructional units, and instructional strategies for health professionals. Three lecture hours a week. Credit: Three hours.

HS 5113. Curriculum Development for Health Professionals. Theoretical concepts of curricular design; identification and implementation of unique factors that determine health curricula. Three lecture hours a week. Credit: Three hours.

HS 5343. Risk Reduction. Identification and analysis of risk-taking behaviors, and application of health risk assessment theory, tools, data sources, and methodology. Use of risk assessments, demographic data, and behavior-change theories to determine appropriate health risk reduction and health enhancement strategies for various populations and settings. Three lecture hours a week. Credit: Three hours.

HS 5353. Epidemiology. Study of disease occurrence in human populations and the understanding of the various methods used in the study of disease. Prerequisite: A disease process course. Three lecture hours a week. Credit: Three hours.

HS 5363. Population Health. Dimensions of population health; application of community health concepts through the use of multicultural approaches; effective capacity building in coalitions and other populations. Community health agency organization, role, and structure. Three lecture hours a week. Credit: Three hours.

HS 5383. Program Development and Coordination. Development and evaluation of community and worksite health education programs. Review of approaches to program design, criteria for content selection, writing of programs, and community resources and support. Prerequisite: HS 5423. Three lecture hours a week. Credit: Three hours.

HS 5413. Current Issues in Health Studies. Introduction to the professions of health science and allied health: role, credentialing, ethics, journals, associations and organizations, leaders in the field, and current and future trends in health science. Three lecture hours a week. Credit: Three hours.

HS 5423. Ethnic and Cultural Factors in Health Decisions. Consideration of major chronic, degenerative, and communicable diseases in light of socio-cultural influences; exploration of myths and misconceptions in ethnic groups and the related health implications; alternative strategies for minorities to improve health through education. Three lecture hours a week. Credit: Three hours.

HS 5563. Consumer Health. Information concerning health care products, services, and consumer protection. Strategies for effective delivery of information to the public concerning consumer health related products and problems. Three lecture hours a week. Credit: Three hours.

HS 5613. Worksite Health Promotion. Design and management of effective worksite health promotion programs; organizational aspects of healthy work environments; critical issues related to health behavior change and intervention programs in the workplace setting. Three lecture hours a week. Credit: Three hours.

HS 5703. Applied Statistics for Health Educators. Descriptive and inferential statistics utilized by health educators; selection of appropriate statistical tests for specific health research problems. Critical evaluation of statistics used in published health studies. Development of terminology and skills for communicating statistical concepts. Credit: Three hours.

HS 5901, 5903. Special Topics. Concentrated study of a particular topic in health education. Credit: One or three hours. May be repeated for credit when topic varies.

HS 5911, 5913. Individual Study. Advanced study in a selected area of health education leading to the solution of a problem of professional interest and significance. Credit: One or three hours. May be repeated for additional credit.

HS 5953, 5956. Cooperative Education. Cooperative work-study arrangement between business, industry, or selected institutions and the university. The work experience will be health related and will involve some aspect of delivering health education. Preplanning and evaluation will be required as part of the laboratory hours per week. Credit: Three or six hours.

HS 5983. Thesis. Credit: Three hours.

HS 5993. Thesis. Prerequisite: HS 5983. Credit: Three hours.

HS 6043. Methods in Health Education Research. Review of library skills and writing style, reading and interpreting of research, research planning and design, methodologies, and research reporting as they relate to dissertation prospectus preparation in health education; advanced research skills and health behavior research; appropriate selection of qualitative versus quantitative methodologies; community-based participatory research. Prerequisite: HS 5013; 6 hours of statistics; HS 6483; and HS 6073. Three lecture hours a week. Credit: Three hours.

HS 6053. Qualitative Research Methods in Health Studies. An overview of epistemological and theoretical perspectives underlying qualitative methods in health science research; techniques for gathering and analyzing qualitative data; and issues relative to publishing qualitative research in health science. Prerequisite: HS 6043. Three lecture hours a week. Credit: Three hours.

HS 6073. Seminar in Health Education. Capstone course that draws from skills learned in other courses throughout the program; synthesis of theory and methods of health education; needs assessment and program planning; implementation; and evaluation into advanced application through grant writing activities; ten areas of responsibility of a graduate level health education specialist. Prerequisites: HS 5423, 6453, 5383. Corequisite: HS 6483. Three lecture hours a week. Credit: Three hours.

HS 6353. Social Epidemiology. Epidemiological methods with focus on social determinants of diseases, including the theoretical foundation and processes involved in conducting social epidemiological research. Prerequisite: HS 5353 or permission of instructor. Three lecture hours a week. Credit: Three hours.

HS 6403. Environmental Health. Basic principles of ecology as they apply to the health of human beings; analysis of modern developments in technology and science and their resultant effects on human beings; development of community efforts in establishing environmental quality. Three lecture hours a week. Credit: Three hours.

HS 6423. Global Health. Health status, health delivery systems, and health policy issues affecting human populations around the world; roles of selected international organizations in advancing the health status of certain populations. Three lecture hours a week. Credit: Three hours.

HS 6433. History of Health and Medicine. Significant historical events with emphasis upon ideas, personalities, institutions, and cultural factors of each era as they affected the origin and development of health education. Three lecture hours a week. Credit: Three hours.

HS 6443. Foundations of Health Science. Introduction of theories and concepts related to health science. Includes rational, psychodynamic, and behavioral theories from education, psychology, and sociology. Applications of theory to health education practice and research. Three lecture hours a week. Credit: Three hours.

HS 6453. Strategies in Health Education Delivery. Identification of the various entities within the health education system which influence decisions about accepting health information and changing unhealthful lifestyles. Development of strategies for effective utilization of health information. Prerequisite: HS 5423. Three lecture hours a week. Credit: Three hours.

HS 6483. Evaluation in Health Education. Evaluative tools for individuals, groups, and programs in health education; methods for selecting instruments and collecting data; advanced interpretation and reporting evaluation results through a formal evaluation plan. Prerequisites: HS 5353, HS 6443, HS 5423, HS 5383. Corequisite: HS 6453. Three lecture hours a week. Credit: Three hours.

HS 6563. Health Advocacy and Leadership. Exploration of advocacy, including building coalitions, creating media messages, meeting with decision-makers, and impacting health policy. Three lecture hours a week. Credit: Three hours.

HS 6901, 6903. Special Topics. Concentrated study of a particular topic of current interest in health education. Credit: One or three hours. May be repeated for additional credit.

HS 6911, 6913. Individual Study. Individual study in health studies leading to the solution of a problem of professional interest and significance. Credit: One or three hours. May be repeated for additional credit.

HS 6953, 6956. Cooperative Education. Cooperative work-study arrangement between business, industry, or selected institutions and the university. The work experience will be health related and will involve some aspect of delivering health education. Pre-planning and evaluation will be part of the laboratory hours per week. Credit: Three or six hours.

HS 6983. Dissertation. Credit: Three hours.

HS 6993. Dissertation. Prerequisite: HS 6983. Credit: Three hours.

Department of Kinesiology

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Graduate Degrees Offered

M.S. in Kinesiology. Instruction available in the support areas of Sport Management, Biomechanics, Exercise Physiology, Adapted Physical Education, Pedagogy, and Coaching.

M.S. in Exercise and Sports Nutrition

Ph.D. in Kinesiology. Instruction available in the support areas of Adapted Physical Education, Sport Management, Biomechanics, and Exercise Physiology.

Certificate Programs Offered

Post-baccalaureate Certificate in Adapted Physical Education

Post-baccalaureate Certificate in Leadership in Education and Sport

Graduate courses in the Department of Kinesiology are designed to provide qualified individuals with the opportunity to pursue advanced study beyond the baccalaureate level. Objectives in the degree programs are:

1. to ensure that students have a broad philosophical, educational, and scientific background on which to base their work as professionals;
2. to acquaint students with current thinking, practices, trends, and problems related to physical education and kinesiology;
3. to prepare students to assume leadership roles in educational, industrial, business, public, or private agency settings;
4. to provide students with the evaluative, statistical, research methodologies, and critical thinking strategies that will enable them to contribute to the advancement of the field; and
5. to offer sequences of coursework leading to specialization in a particular subdiscipline of kinesiology.

The particular objective of non-degree graduate study is to provide personal and professional enrichment opportunities for the individual. For the persons who

wish to become qualified to teach in the public schools of Texas, a certification program is also available. See the General Catalog for requirements.

Facilities for Graduate Instruction and Research

The Pioneer Hall was completed in the Spring, 1998. This state-of-the-art facility contains accessible classrooms, multimedia centers, dance studios, laboratories, a large gymnasium, an 8-lane natatorium, an indoor track, a weight training room, an athletic training room, racquetball courts, climbing wall, dressing rooms, and administrative and faculty offices.

Biomechanics, exercise physiology, biochemistry, and motor behavior/pedagogy laboratories have been dedicated specifically for teaching and research. These well equipped facilities permit research studies on persons with and without disabilities in the areas of stress testing, body composition assessment, bone density, cardiovascular respiratory analysis, blood biochemistry analysis that includes glucose, lactate, insulin, C-peptide, and a variety of other hormones and metabolites; isokinetic, isometric, and isotonic strength testing; anthropometry; telemetry; and high speed motion analysis, among others. Portable and online computer capabilities facilitate analysis of digital kinetic and kinematic data gathered with a three-dimensional high speed video system, electromyographic equipment, and electronic forceplates. Computerized data collection and analysis systems are available for motor learning studies.

Outdoor facilities include playing fields, tennis courts, softball diamond, a swimming pool, an 18 hole par 71 golf course, and soccer field.

Computer facilities of the University are extensively utilized by the department programs as are the many other fine features of the campus and Metroplex, including the Cooper Aerobic Center and the Tom Landry Center.

Admission Requirements

Please see the admission section at the front of this catalog. In addition to these general requirements, the Department of Kinesiology requires the following.

Master of Science in Kinesiology

1. The applicant will submit two satisfactory letters of recommendation that may include one from the last employer if the student has had work experience and one from the last school attended.
2. For applicants without an undergraduate degree in kinesiology, undergraduate prerequisites may be required. Each specialization will determine the appropriateness of additional requirements for the student.
3. The applicant will submit a vita/resume with special emphasis on training and work experience in physical education or related areas.
4. The applicant will specify an area of specialization (Adapted Physical Education, Biomechanics, Coaching, Exercise Physiology, Sport Management, or Pedagogy).

5. Any applicant may submit additional materials that they deem appropriate to his/her application.
6. The appropriate faculty admissions committee will review the total application.

Master of Science in Exercise and Sports Nutrition

For unconditional admission, applicants must present:

1. A baccalaureate degree in kinesiology or nutrition or its equivalent
2. Official transcripts that show evidence of prerequisite undergraduate courses in the areas of exercise physiology, biomechanics and an upper level kinesiology course, human anatomy and physiology, biochemistry, introduction to nutrition, advanced nutrition and an upper level nutrition course
3. At least a 3.25 GPA on a 4.0 scale for the last 60 undergraduate hours.
4. Evidence of completing the Graduate Record Examination with a preferred minimum score of 500 on the verbal portion and 400 on the quantitative.
5. A 1-2 page statement of intent providing evidence of work and volunteer experience related to intended field of study and goals.
6. Two letters of recommendation

Applicants who meet the above criteria with exception of GPA may qualify for provisional admission if they have at least a 3.0 GPA (4.0 scale) on the last 60 undergraduate hours.

Applicants who meet all other requirements but lack up to 12 credit hours of prerequisite undergraduate courses may be admitted provisionally to this master's program.

Doctor of Philosophy in Kinesiology

1. The applicant will submit three satisfactory letters of recommendation that may include one from the last employer if the student has had work experience and others from the last school attended.
2. For applicants without an undergraduate degree in kinesiology, undergraduate prerequisites may be required. Each specialization will determine the appropriateness of additional requirements for the student.
3. The applicant will submit a vita with special emphasis on training and work experience in physical education or related areas.
4. The applicant will submit a statement of intent that briefly describes his/her background, personal growth and development, future goals, and reasons for applying to the Department of Kinesiology doctoral program.
5. The applicant will specify an area of specialization (Adapted Physical Education, Sport Management, Biomechanics, Exercise Physiology).
6. The applicant will have a formal interview with the Doctoral Admission Committee (or its designated representatives).

7. Students who have not written a master's thesis will complete an original research project with an individual faculty member during the first year in the doctoral program. A total of 3 credit hours may be earned.
8. Any applicant may submit additional materials that they deem appropriate to his/her application.
9. The appropriate Doctoral Admissions Committee will review the total application and forward their decision to the Graduate Coordinator.

All written materials (application, transcripts, letters of recommendation, vita, statement of intent, and designation of an area of specialization) need to be submitted according to the following deadlines:

For admission for the following fall semester – July 15

For admission for the following spring semester – November 1

For admission for the following summer semester – April 1

International students are admitted only in the fall (deadline is April 1) or spring (deadline is August 1) semesters.

The application and transcripts are submitted to the Admissions Office. The remaining written materials to be presented by graduate degree-seeking individuals are to be submitted to the Graduate Coordinator of the Department of Kinesiology.

General Requirements for M.S. Degree in Exercise and Sports Nutrition

The first interdisciplinary graduate program on the Denton Campus meets all the recommended competencies for master's level education outlined in the Coordinating Board's *Guidelines for Fitness and Health Programs in Texas*.

The Exercise and Sports Nutrition Program is administered through the College of Health Sciences. Both the departments of Kinesiology and Nutrition and Food Sciences are responsible for the majority of didactic hours, including an internship in one or more settings in the Dallas-Fort Worth metroplex, and a thesis or a professional paper. The course of study will include Research Methods, Statistics, Graded Exercise Testing, Exercise Evaluation and Prescription, Advanced Nutrition, Cardiovascular Response to Exercise, Nutrition and Exercise, Effect of Nutrition and Exercise in the Disease State, and Advanced Analysis of a Small Business.

General Requirements for M.S. Degree in Kinesiology

Total Hours Required: 30-36 hours.

Core: 6 hours

Major/Emphasis: An area of emphasis must be selected. Number of hours varies according to program of study.

Minor: Optional, 6 hours

Final Examination: Oral defense evaluated by the thesis, professional paper, or culminating experience committee. May be repeated at the discretion of the committee.

General Requirements for Doctoral Degree

Total Hours Required: 96 hours, including credits from master's level work and 6 hours for dissertation.

Core: 6 hours.

Major/Emphasis: 21-36 hours, depending on area of study.

Minor/Related Area: Optional, number of hours variable.

Special Requirements: At least nine hours of course work should be taken outside the department.

Research Tools: The student in consultation with the advisory committee will determine 12 hours of research tools.

Qualifying Examination: The exam is comprised of four written sections over selected areas of the student's emphases and an oral section. May be repeated once.

Final Examination: Oral examination conducted by the Dissertation Committee over the candidate's research after the dissertation is completed. May be repeated at the discretion of the committee.

Minors Offered to Students from Other Departments

A minor is offered to doctoral students within each of the four specializations in the doctoral program in Kinesiology: Adapted Physical Education, Administration, Biomechanics, and Exercise Physiology. Students wishing to pursue a minor in Kinesiology should meet with a faculty member from the chosen area of specialization to determine the appropriate coursework. Undergraduate prerequisites may be necessary depending on the specialization chosen. A minimum of 12 hours is required for the minor.

Courses of Instruction in Kinesiology

KINS 5023. Methods of Research. Types of research; development of research designs; procedures for collection and treatment of data; application of introductory statistics for planning research designs, analyzing data, and interpreting findings; critical analysis of research. Three lecture hours a week. Credit: Three hours.

KINS 5033. Applied Statistical Principles. Statistical principles and their applications to problems in kinesiology and other related areas. Three lecture hours a week. Credit: Three hours.

KINS 5113. Professional Internship in Sport Management. Application of sport management knowledge in varied environments under the supervision of a mentor; completion of 120 clock hours of experience required. Credit: Three hours.

KINS 5123. Professional Affiliation. Practicum experience in educational, clinical, or recreational settings. A minimum of nine hours a week will be spent in the practicum setting. Two semesters are required of students specializing in adapted and developmental physical education. Nine laboratory hours a week. Credit: Three hours.

KINS 5133. Professional Internship for Exercise and Sports Nutrition. Application of exercise and sports nutrition knowledge in varied practice settings. Student is required to complete 150 clock hours of supervised practice during a minimum of eight weeks (10-19 hours of work per week). Credit: Three hours.

KINS 5143. Group Dynamics in the Professions. Principles and theories of group dynamics in relation to special needs of professional recreation personnel and teachers; basic issues and assumptions, cohesiveness, leadership and group performance, group pressures and group standards, structural properties of groups. Three lecture hours a week. Credit: Three hours.

KINS 5203. Theory of Coaching. Theoretical base with practical application for teaching sport and sport skills; sport coaching responsibilities including developing a coaching philosophy and establishing an effective coaching style; effective communication, management responsibilities, skill development, sport physiology and productive planning. Designed for coaches at all levels and for all sports. Three lecture hours a week. Credit: Three hours.

KINS 5213. Principles for the Development of Optimal Performance. Motor learning and biomechanical principles applied to the development of strategies and evaluative techniques for promoting optimal utilization of player's abilities as well as team production; development of skills in visual observation and analysis of proper technique by position/event. Requirements include successful completion of the professional 24-hour inservice module (NFCC 403). Credit: Three hours.

KINS 5223. Tactics and Strategies I. In-depth study of defensive tactics and strategies by position or by specific athletic event; development of team systems based on personnel. Requirements include successful completion of the professional 24-hour in-service module (NFCC 404). Credit: Three hours.

KINS 5243. Sport Injury Prevention and First Aid. Recognition and emergency treatment of sports injuries; roles, responsibilities and limitations of coaches concerning sport injuries; prevention of and response to sports injury; developing a medical emergency plan; includes CPR certification. Three lecture hours a week. Credit: Three hours.

KINS 5253. Organization and Administration for Effective Team Management. Organization and administration of staff, budgeting, personnel, and effective team function. Topics include risk management, recruiting, safety, positive learning environment, technology, and legal concerns. Three lecture hours a week. Credit: Three hours.

KINS 5263. Sport Psychology. Sport psychology principles utilized in a coaching environment; enhancing athletic performance through psychological assessment and goal setting; coach-athlete relationships; various psychological problems of athletes. Three lecture hours a week. Credit: Three hours.

KINS 5273. Sport Conditioning and Nutrition. Planning and monitoring strength and conditioning training programs by coaches; development of resistance training programs to improve sport performance; nutritional concepts tailored for athletes in any sport. Three lecture hours a week. Credit: Three hours.

KINS 5293. Technical Skills Analysis. Sport skill analysis; use of biomechanical principles to analytical sport movement; effective communication, feedback, and cues for skill teaching. Three lecture hours a week. Credit: Three hours.

KINS 5303. Coaching Tactical Skills. Competitive tactics and strategies for all sports; analysis of tactical skills and games approach strategies; developing effective practice plans; developing effective decision making for athletes. Three lecture hours a week. Credit: Three hours.

KINS 5413. The Sport Industry. Sport-related industries and organizations; examination of dimensions of structure, design processes, theories, and behaviors related to the sport domain. Three lecture hours a week. Credit: Three hours.

KINS 5433. Sport Promotion and Publicity. Principles of organizing and promoting events and activities associated with the sport industry. At least 51% of this course will be delivered online. Three lecture hours a week. Credit: Three hours.

KINS 5453. Financing the Sport Enterprise. Funding principles and financial practices in the organization and operation of a sport enterprise. Three lecture hours a week. Credit: Three hours.

KINS 5463. Legal Issues in Sport. Application of legal theories to the sport industry with specific focus on tort law, constitutional law, contract law, negligence and risk management, and Title IX. Three lecture hours a week. Credit: Three hours.

KINS 5473. Sport Media and Stakeholder Relations. Application of communication and sport information practices to the sport enterprise; examination of persuasion techniques and strategies for the sport enterprise with a special focus on key stakeholders. Three lecture hours a week. Credit: Three hours.

KINS 5483. Sport Sales, Sponsorship and Fundraising. The application of ticketing and sponsorship sales strategies to the sport industry. Examination of sport sponsorship retention strategies and sponsorship evaluation methods in sport. This course will be delivered 75% online. Three lecture hours a week. Credit: Three hours.

KINS 5513. Mechanical Analysis of Human Motion. Kinematics and kinetics of human motion with emphasis on the principles describing human motion and the effects of external and internal forces on the human body and motion. Three lecture hours a week. Credit: Three hours.

KINS 5553. Advanced Exercise Physiology. Energy production and control of energy systems; effect of lactate accumulation during exercise; control of the cardiovascular system; adaptations to aerobic and anaerobic exercise training; influence of drugs on exercise performance. Prerequisite: An undergraduate course in exercise physiology. Three lecture hours a week. Credit: Three hours.

KINS 5573. Graded Exercise Testing. Administration and evaluation of graded exercise tests and electrocardiograph results. Two lecture and three laboratory hours a week. Credit: Three hours.

KINS 5583. Hormonal Responses During Exercise. Hormonal control of fuel mobilization and utilization during exercise; effect of exercise on catecholamine, insulin, glycogen, and steroid hormone response; the effect of exercise on hormonal response of women. Three lecture hours a week. Credit: Three hours.

KINS 5603. Growth and Perceptual Motor Development. Hereditary and environment determinants of motor development; perceptual motor behavior of infants, children, adolescents, adults, and senior citizens; characteristic changes in size, body build, fitness, and motor performance. Three lecture hours a week. Credit: Three hours.

KINS 5613. Cardiovascular Response to Exercise. General and specific effects of exercise upon the cardiovascular system of the human body, with emphasis upon research techniques relevant to the testing of these systems. Two lecture hours, three laboratory hours a week. Credit: Three hours.

KINS 5683. Exercise Evaluation and Prescription. Measurement of health-related physical fitness and exercise capacity in healthy individuals and populations requiring special considerations; population-appropriate exercise prescription; underlying physiological mechanisms controlling physical fitness and exercise capacity. Prerequisites: KINS 3601, KINS 3602. Two lecture and two laboratory hours a week. Credit: Three hours.

KINS 5723. Sport in American Society. The role of sports and games in American culture as expressive of meanings and values; cognizance of the feminine role in sports; the contributions of sports and games to human welfare. Three lecture hours a week. Credit: Three hours.

KINS 5763. Systematic Observation in Physical Education and Sport. Variables affecting physical education and sport instruction. Systematic observation techniques for analyzing teaching, coaching, and learning behaviors. Three lecture hours a week. Credit: Three hours.

KINS 5783. Learning and Teaching Styles in Physical Education and Sport. Learning and teaching styles to promote physical and sport performance. Techniques for analyzing and enhancing learning environments. Three lecture hours a week. Credit: Three hours.

KINS 5793. Enhancing Behavior and Performance in Physical Education Environments. Techniques of effectively managing behavior and promoting learning of individuals of all ages and levels of abilities who have disabilities and are at risk. Underlying theories and research applications addressed. Three lecture hours a week. Credit: Three hours.

KINS 5813. Research in Kinesiology. Individualized research in a specific area of kinesiology. Eight hours of laboratory a week. Credit: Three hours. May be repeated for additional credit.

KINS 5843. Adapted Physical Activity, and the APENS Theory to Practice. Historical and contemporary issues in adapted physical activity in relation to unique attributes of learners with disabilities. Curriculum theory and development, instruction design and ethical issues. Three lecture hours a week. Credit: Three hours.

KINS 5853. Appraisal of Psychomotor Dysfunctions in Adapted Physical Education. Conditions which impede psychomotor functioning; evaluation techniques and tools pertaining to the motor domain; educational diagnosis; role of physical educator on ARD Committee; the I.E.P. Three lecture hours a week. Credit: Three hours.

KINS 5863. Pedagogy in Adapted Physical Education. Selecting and presenting appropriate intervention strategies for individuals with varying disabling conditions. Techniques for modifying environment condition to increase attending behaviors. Three lecture hours a week. Credit: Three hours.

KINS 5873. Aquatics for Special Populations. Swimming and water related activities adapted to the needs of special populations including movement exploration, facilities and equipment, research. Three lecture hours a week. Credit: Three hours.

KINS 5883. Disability and Sport. Developmental, recreational, and competitive sports in school and community settings; Paralympics, Special Olympics, and deaf sport; wheelchair and ambulatory sports for all age groups and ability levels; assessment, athletic training, coaching, organization and administration. Three hours lecture a week. Credit: Three hours.

KINS 5903. Special Topics. Specially scheduled course on topic of current interest. Lecture or lecture and laboratory. Credit: Three hours. May be repeated for additional credit.

KINS 5911, 5913. Individual Study. Study of a specific topic in physical education leading to the solution of a problem of interest to the profession or the student. Prerequisite: Permission of the instructor. Credit: Three hours. May be repeated for additional credit.

KINS 5923. Administration and Service Delivery in Public School Adapted Physical Education. Needs assessment in adapted physical education for local school districts; district-wide program planning, implementation, and evaluation; in-service training and consultant services; use of community resources. Three lecture hours a week. Credit: Three hours.

KINS 5943. Nutrition and Exercise in the Disease State. Impact of nutrition and exercise on the reduction of risk factors in diseases of lifestyle. Prerequisite: NFS 5313, Advanced Nutrition. Three lecture hours a week. Credit: Three hours.

KINS 5963. Exercise Programming for Special Populations. Fitness assessment, program development, and implementation for individuals with disabilities and/or related conditions in a clinical setting. Two lecture and one laboratory hours a week. Credit: Three hours.

KINS 5973. Professional Paper and Project. Credit: Three hours.

KINS 5981. The Professional Portfolio. Development of a professional portfolio by students in the Master of Arts in Teaching program demonstrating the student's growth in the Learner-Centered Competencies. Pass-fail grade only. May be repeated. Credit: One hour.

KINS 5983. Thesis. Prerequisite: KINS 5023 (or equivalent). Credit: Three hours.

KINS 5993. Thesis. Prerequisite: KINS 5983. Credit: Three hours.

KINS 6043. Statistical Inference. Application of analysis of variance and covariance, factorial analysis of variance, and multiple regression to research design problems in Kinesiology and other related areas. Special emphasis will be given to repeated measures designs used in conjunction with between subjects designs, as well as to multivariate designs. Prerequisite: KINS 5033 or equivalent. Three lecture hours a week. Credit: Three hours

KINS 6103. Advanced Seminar in Group Dynamics: Research and Theory. Forces which influence the interaction potentials of individuals in a variety of group structures; evaluation of the practical application of these theories utilizing research designs common to the field of group dynamics. Prerequisite: KINS 5143. Three lecture hours a week. Credit: Three hours.

KINS 6113. Seminar. Informal, individual, or small group study of a special problem or current issue in physical education. Credit: Three hours. May be repeated for additional credit.

KINS 6133. Professional Internship. Guided field experience in administrative, supervisory, consultant or similar level positions. Field experiences may not be part of the student's regular job responsibilities. Credit: Three hours. May be repeated for three additional credits.

KINS 6143. Research Designs in Kinesiology. Considerations of research designs with emphasis upon statistics involving multi-group models. Prerequisite: KINS 5023, 5033, 6043, or permission of the instructor. Three lecture hours a week. Credit: Three hours.

KINS 6413. Research Seminar in Sport Management. Research intensive doctoral seminar analyzing the sport industry. Prerequisite: KINS 5413. Three lecture hours a week. Credit: Three hours.

KINS 6423. Research Seminar in Sport Promotion and Sponsorship. Research intensive doctoral seminar analyzing the field of sport promotion and sport sponsorship. Three lecture hours a week. Credit: Three hours.

KINS 6443. Research Seminar in Electronic Sport Information. Research intensive doctoral examination of electronic sport information as it relates to sport management. Three lecture hours a week. Credit: Three hours.

KINS 6523. Advanced Biomechanics. Advanced biomechanical issues such as inertial properties of the human body, mathematical body modeling, numerical methods in biomechanics, advanced joint kinematics and kinetics, and musculo-skeletal modeling. Prerequisite: KINS 5513. Three lecture hours a week. Credit: Three hours.

KINS 6611. College Level Instructional Design and Delivery in Kinesiology. Design and implement course content, instructional strategies, and evaluation techniques. Credit: One hour.

KINS 6623. Biomechanical Analysis I: Motion Analysis. Advanced motion and analysis techniques including human body modeling, high-speed videography, manual and automatic marker tracking, data reduction and processing, 2- and 3-dimensional analysis, inverse dynamics, and computer procedures. Prerequisite: KINS 5513 desired. Two lecture hours and two lab hours a week. Credit: Three hours.

KINS 6643. Biomechanical Analysis II. Advanced data acquisition issues including A/D conversion, device interface, programming, force plate and ground reaction force analysis, electrode placement and EMG analysis, EMG normalization and force processing, and biomechanical instrumentation. Prerequisite: KINS 5513 and KINS 6623 desired. Two lecture hours and two lab hours a week. Credit: Three hours.

KINS 6711. Advanced Research in Adapted Physical Activity Doctoral Seminar. Research involving development of scholarships (manuscripts, presentations, grants) to share with other researchers. Variable content will be related to problems of professional significance. Credit: One hour.

KINS 6811. Advanced Research in Kinesiology. In-depth research involving literature review, identification of research question, research design, development of research tools and analysis protocols, data collection and analysis, report writing, and presentation. Credit: One hour. May be repeated for additional credit.

KINS 6813. Advanced Research in Kinesiology. Kinesiology research involving literature review, identification of the research question, research design, development of research tools and analysis protocols, data collection and analysis, manuscript writing, and presentation. Eight hours of laboratory a week. Credit: Three hours. May be repeated for additional credit.

KINS 6821. Research in Exercise Physiology. Research in exercise physiology involving literature review, identification of the research questions, research design, laboratory techniques, data collection and analysis, manuscript writing, and presentation. Credit: One hour. May be repeated for additional credit.

KINS 6853. Practicum: Appraisal in Adapted Physical Education. Administration of tests of psychomotor functioning; interpretation of findings; writing the I.E.P.'s; participation in multidisciplinary staffing. Three hours practicum per credit hour a week. Credit: Three hours. May be repeated for up to six credit hours.

KINS 6903. Special Topics. Specially scheduled course on topic of current interest. Three lecture hours a week. Credit: Three Hours. May be repeated for additional credit.

KINS 6911, 6913. Individual Study. Study of a specific topic in physical education leading to the solution of a problem of interest to the profession or the student. Prerequisite: Permission of the instructor. Credit: One hour or three hours. May be repeated for additional credit.

KINS 6983. Dissertation. Prerequisite: KINS 5023 (or equivalent). Credit: Three hours.

KINS 6993. Dissertation. Prerequisite: KINS 6983. Credit: Three hours.

Department of Nutrition and Food Sciences

Interim Chair: Ronald D. Hovis, Special Assistant to Academic Affairs

Location: OMB 307 (Denton), IHSH 7118 (Houston)

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E-mail: Denton: nut-fdsci@twu.edu; Houston: nfs-houston@twu.edu

Website: www.twu.edu/nutrition-food-sciences/

*Faculty: **Denton:** Professors C. Bednar, N. DiMarco, V. Imrhan, C. King, H. Mo, C. Prasad; Associate Professors D. Ryu, P. Vijayagopal; Associate Clinical Professor M. Rew; Assistant Professors S. Juma, C. Warren. Visiting Assistant Clinical Professor D. Kearney. **Houston:** Professor J. Radcliffe; Associate Clinical Professors R. Bush, K. Moreland; Assistant Professor C. Moore.*

Graduate Degrees Offered

M.S. in Nutrition

M.S. in Food Science

M.S. in Exercise and Sports Nutrition

M.S. in Food Systems Administration

Dual Degree: M.S. in Food Systems Administration and Master of Business Administration (M.B.A.).

Ph.D. in Nutrition. Instruction is available in the emphasis areas of Food Systems Administration and Food Science.

The primary objectives of the graduate programs are to: (1) provide programs which advance students' knowledge and expertise in their field of study; (2) engage in research activities that contribute to the profession and to society through improved quality of life; and (3) assist in the development of professional leaders for the future.

Depending on the course of study, students are prepared for a variety of professional careers in clinical dietetics, food service systems management, the food industry, health and wellness, sports nutrition, education, or research.

Research interests of the faculty include numerous areas of laboratory and clinical investigation focused toward the nutritional sciences as well as foodservice administration, nutrition education, and food sciences. The departmental website references specific research areas of faculty at www.twu.edu/nutrition-food-sciences.

The doctoral degree and the master's degree programs in Food Science and Exercise and Sports Nutrition are available only at the Denton campus. Master's degrees in Nutrition and Food Systems Administration are available at both Denton and Houston.

Many courses in graduate programs are offered online or videoconferenced between the Denton, Dallas, and Houston campuses. The M.S. in Nutrition and the M.S. in Food Systems Administration are also offered as online degree programs.

Admission Requirements

Please see the admission section of this catalog. In addition to these general requirements, the Department of Nutrition and Food Sciences requires the following minimum undergraduate prerequisites for the various majors:

Nutrition (M.S. and Ph.D.) Semester Hours

Chemistry (including Biochemistry)	9-12
Human Anatomy and Physiology	3-4
Introduction to Nutrition	3
Upper Level Nutrition (Advanced Nutrition: Macronutrients and Micronutrients and Nutrition through the Lifecycle)	8-9

**Food Science (M.S. and Ph.D. in Nutrition with Food Science
Emphasis*)**

Chemistry	9-12
Microbiology	4
Food Science	9

**Food Systems Administration (M.S. and Ph.D. in Nutrition
with Food Systems Administration Emphasis*)**

Microbiology	4
Introduction to Nutrition	3
Accounting.....	3
Quantity Food Production & Service	3
Upper Level Foodservice Management and/or Business	6

*Applicants applying to the Ph.D. in Nutrition with Food Science emphasis should meet prerequisite requirements for both Nutrition and Food Science. Applicants applying to the Ph.D. in Nutrition with Food Systems Administration emphasis should meet prerequisite requirements for both Nutrition and Food Systems Administration.

Master’s Admission

For *unconditional admission*, applicants must present:

1. Official transcripts that show evidence of prerequisite courses and at least a 3.25 GPA on a 4.0 scale for the last 60 undergraduate hours and, all post-baccalaureate and graduate hours.
2. Evidence of completing the Graduate Record Examination with a preferred minimum score of 350/143 on the verbal portion and 450/141 on the quantitative portion.

3. A 1-2 page resume providing evidence of work and volunteer experience related to intended field of study.

Applicants who meet the above criteria with exception of GPA may qualify for *provisional admission* if they have at least a 3.0 GPA (4.0 scale) on the last 60 undergraduate hours, plus first 20 hours post-baccalaureate and graduate hours to be completed during the first two semesters of graduate work.

Applicants who meet all other requirements but lack up to 9 credit hours of prerequisite undergraduate courses may be admitted provisionally to a master's program. They must complete the required prerequisite courses within the first two semesters of graduate work.

Doctoral Admission

For *unconditional admission*, applicants must present:

1. Official transcripts that show evidence of prerequisite courses and at least a 3.5 GPA (4.0 scale) for the last 60 undergraduate hours on all post-baccalaureate and graduate hours.
2. Evidence of completing the Graduate Record Examination with a preferred minimum score of 450/150 on the verbal portion and 550/146 on the quantitative portion.
3. Two letters of reference.
4. A statement of purpose (1-2 pages) that includes reasons for undertaking graduate work, explanation of study and research interests, work experience, and professional goals.

Applicants who meet the above criteria with exception of GPA may qualify for *provisional admission* if they have at least a 3.0 GPA (4.0 scale) on the last 60 undergraduate hours on all post-baccalaureate and graduate hours.

General Requirements for M.S. Degrees in Nutrition, Food Systems Administration, and Food Science

Total Hours Required: A degree plan for the thesis option should reflect a minimum of 30 semester hours; a maximum of 6 hours of research/independent study/cooperative education/internship experience; and a maximum of 6 hours of thesis. A degree plan for the coursework option should reflect a minimum of 42 credit hours; a maximum of 6 hours of independent study/cooperative education/internship experience; and successfully passing a written comprehensive exit examination with a score of 70% or better. Additional information is available on the department's website at www.twu.edu/nutrition-food-sciences.

Core: 3 hours of beginning level graduate statistics or research design and 1 hour of seminar are required for all majors in addition to other hours specific to each program. Students must earn a 'B' or better in the following courses: NFS 5314

for Nutrition majors; NFS 5773 for Food Systems Administration majors; NFS 5003 for Food Science majors.

Major/Emphasis: Number of hours varies according to program of study.

Minor: 9 hours, optional

Final Examination: Students with thesis option will appear in a final oral examination that should not exceed two hours and may not be taken more than twice. Students with the coursework only option must take a written 'exit exam.' Additional information is available on the department's website at www.twu.edu/nutrition-food-sciences.

General Requirements for M.S. Degree in Exercise and Sports Nutrition

Admission Policies, Exercise and Sports Nutrition Master's Program:

For unconditional admission, applicants must present:

1. A baccalaureate degree in kinesiology or nutrition or its equivalent.
2. Official transcripts that show evidence of prerequisite undergraduate courses in the areas of exercise physiology, advanced exercise physiology, exercise testing and prescription, human anatomy and physiology, biochemistry, introduction to nutrition, advanced nutrition, and an upper level nutrition course.
3. At least a 3.25 GPA (4.0 scale) for the last 60 undergraduate hours.
4. Evidence of completing the Graduate Record Examination with a preferred minimum score of 500/153 on the verbal portion and 400/140 on the quantitative portion.
5. A 1-2 page statement of intent providing evidence of work and volunteer experience related to intended field of study and goals.
6. Two letters of recommendation.

Applicants who meet all other requirements but lack up to 12 hours of prerequisite undergraduate courses may be admitted provisionally to this program. They will complete all 12 hours during the first two semesters of graduate work.

Total hours required: a minimum of 34-43 hours with thesis or coursework only options are required.

Core:

Group I – Required Core Courses (13 hours)

NFS 5314. Human Nutrition and Metabolism*

NFS 5363. Human Nutrition in Disease

KINS 5023. Methods of Research

KINS 5033. Applied Statistics

*Students must earn a 'B' or better in this course.

Group II – Additional Required Courses (15 hours)

KINS 5553. Advanced Exercise Physiology

KINS 5613. Cardiovascular Response to Exercise

KINS 5683. Exercise Evaluation and Prescription

NFS 5583. Nutrition and Exercise

NFS 5681. Practicum in Exercise and Sports Nutrition (repeated 3 times)

Options: Three options for completion of the master's degree in Exercise and Sports Nutrition are available including thesis, coursework only or International Olympic Committee (IOC) diploma option. The number of hours to complete the program will vary with the option: thesis, 34 hours; coursework only, 43 hours; and IOC, 30 hours.

Minor: A minor of 9 graduate credit hours in an area of emphasis can be achieved within the total number of program hours or by taking additional coursework. If a minor is declared, a faculty member in that minor area of study must serve on the academic committee.

Written final or comprehensive exam: Students completing the thesis option will appear in a final oral examination that should not exceed two hours and may not be taken more than twice. A written comprehensive examination based on formal coursework is required for those completing the coursework only option, and can be taken after satisfactory completion of 21 graduate credit hours including the required core courses. Students must satisfactorily pass the written examination with a score of 70% or better, and it can be taken more than once. The examination will be offered only one time each semester. Additional information is available on the department's website at www.twu.edu/nutrition-food-sciences/admission/asp.

Dual Degree: M.S. in Food Systems Administration and Master of Business Administration (M.B.A.)

This degree provides students with the management and business skills needed to qualify for administrative positions in healthcare facilities, schools, and other institutions and business organizations.

Admission Requirements: For unconditional admission, applicants must present:

1. A baccalaureate degree related to food and nutrition, dietetics, or business.
2. Official transcripts that show evidence of completing undergraduate courses in nutrition, beginning food preparation, microbiology, accounting, economics, quantity food production and service, and upper foodservice management or business.
3. At least a 3.25 GPA (4.0 scale) for the last 60 undergraduate hours.
4. Evidence of completing the Graduate Record Exam (GRE) with preferred minimum scores of 350/143 on the verbal portion and 450/141 on the

quantitative portion or Graduate Management Admission Test (GMAT) with a preferred minimum score of 400.

5. A 1-2 page resume providing evidence of work and volunteer experience related to intended field of study.

Required Courses: All dual degree students must complete a total of 54 credit hours that includes core courses in Food Systems Administration and Business as listed below plus 3 hours of research design or statistics, 2 hours of seminar (NFS 5721, 5331 or 5321), and 7 to 10 hours of NFS or BUS electives. Students are also required to complete 6 hours for the thesis option.

Food Systems Administration (15 hrs):

NFS 5713 Human Resource Management in Nutritional Care Systems*
NFS 5733 Quality and Productivity of Foodservice Systems
NFS 5763 Food Safety/Foodborne Illness
NFS 5773 Organization and Management of Foodservice Systems
NFS 5753 Foodservice Facility Design and Management

Business (18-21 hrs):

BUS 5133 Marketing Management
BUS 5243 Administrative Managerial Finance
BUS 5273 Human Resource Administration*
BUS 5333 Advanced Business Policy
BUS 5453 Leadership
ECO 5143 Advanced Managerial Economics

**Either NFS 5713 or BUS 5273 may be taken*

General Requirements for All Doctoral Degrees

Total Hours Required: Minimum of 90 hours beyond the bachelor's degree including 6 hours for dissertation. The degree plan must be approved in a meeting with advisory committee members; changes must be approved by all members of the committee.

NFS Core:* The NFS Core (11 hours) for all doctoral degrees includes the following requirements:

NFS 5314 Nutrition and Human Metabolism
NFS 6123 Micronutrients in Human Nutrition
NFS 6124 Macronutrients in Human Nutrition

Research Tools (12 hours):*

6 hours statistics
6 hours other research tools (Research tools may include, but not limited to, foreign language, computer applications, research design, grant writing, laboratory techniques or electronic information resources).

*Note: Students are advised to take the qualifying examination after completing the NFS core courses (11 hours) and research tools (12 hours).

Additional courses for the Ph.D. in Nutrition may include:

Nutrition electives (at least 6 hours). Choose from the courses offered in the Department of Nutrition and Food Sciences.

Seminar NFS 6331 (4 hours). For off-site students, NFS 6331 can be replaced by NFS 5721.

Note: Total minimum credits needed for graduation is 90 hours. Additional information can be found at www.twu.edu/nutrition-food-sciences.

Additional courses (9 hours or more) required for the Ph.D. in Nutrition with emphasis in Food Science:

- To include courses in the Department of Biology, and/or Chemistry and Physics.

- These courses will be decided in consultation with the advisory committee.

Additional courses (9 hours or more) required for the Ph.D. in Nutrition with emphasis in Food Systems Administration:

- To include courses in the School of Management, and/or Program in Healthcare Administration.

- These courses will be decided in consultation with the advisory committee.

Residency Requirement: Although there is no residency requirement, at least 50% of all the required credits for graduation must be earned at Texas Woman's University.

Qualifying Examination: Written and oral comprehensive examinations must be passed prior to admission to candidacy. Examinations may not be taken more than twice. The written examination may be taken after satisfactory completion of NFS core courses (11 hours) and research tools (12 hours). The written examination will be administered on three consecutive days. The student must satisfactorily pass the written examination before the oral examination can be scheduled. The oral examination should be held within four weeks after the written examination is satisfactorily completed. Length of the oral examination should not exceed three hours. The written examination is generally scheduled in October, March, and July of each academic year. Additional information can be found at www.twu.edu/nutrition-food-sciences.

Final Examination: The final examination is oral and includes defense of the dissertation and the research on which it is based. The final examination should not exceed three hours and it may not be taken more than twice.

Certification Programs Offered

The Department, in collaboration with health care facilities in the Houston metroplex and the Dallas/Fort Worth metroplex, offers two Dietetic Internship programs with graduate credit that leads to a master's degree. These are the TWU Internship Program-Denton campus and the TWU Dietetic Internship Program-Houston Center. The Houston Center also offers the academic component for the Combined Dietetic Internship-Master's Degree Houston Michael E. DeBakey Veteran's Affairs Medical Center Program.

The TWU Dietetic Internship Programs have been granted accreditation status by the Accreditation Council for Education in Nutrition and Dietetics of the Academy of Nutrition and Dietetics, 120 S. Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, 312-899-0040, a specialized accrediting body recognized by the Council on Postsecondary Accreditation and the United States Department of Education.

All TWU dietetic internship programs participate in a computer matching process for selection of students. Upon successful completion of the program, students are eligible to write the registration examination by the Commission on Dietetic Registration.

Further information and application forms may be obtained from the program directors (or online at www.twu.edu/nutrition-food-sciences) and submitted before the deadline date (mid-February) as indicated on the application form.

Director, Dietetic Internship
TWU Dietetic Internship Program plus graduate credit
Department of Nutrition and Food Sciences
P.O. Box 425888
Denton, TX 76204-5888
E-mail: nutrfdsci@twu.edu

or

Director, Dietetic Internship
TWU Dietetic Internship Program plus graduate credit
Department of Nutrition and Food Sciences
6700 Fannin St.
Houston, TX 77030-2343
E-mail: nfs-houston@twu.edu

or

Director, Dietetic Internship
Michael E. DeBakey VA Medical Center
2002 Holcombe Blvd.
Houston, TX 77030
Website: www.va.gov/nfs/HoustonVAMC

Minors Offered:

Students pursuing a minor in Nutrition and Food Sciences must have the following undergraduate prerequisites, depending on emphasis chosen:

Nutrition: Biochemistry, Human Anatomy and Physiology, Introduction to Nutrition, Advanced Nutrition: Macronutrients and Micronutrients, and Advanced Nutrition Lab or equivalent

Food Science: Chemistry (8 hours) and 6 hours of food science, food preparation, or equivalent

Food Systems Administration: Microbiology, Quantity Food Production and Service, and 3 additional hours upper level food service management or Business courses

Master's level: 9 graduate hours in area of emphasis.

Doctoral level: 12 graduate hours in area of emphasis.

Courses of Instruction in Nutrition, Food Science, and Food Systems Administration

NFS 5003. Food Chemistry. Chemical properties of food ingredients and food systems, relationship of chemical properties to the functional properties and their effects on food and nutritional qualities. Prerequisite: Organic chemistry or permission of instructor. Three lecture hours a week. Credit: Three hours.

NFS 5013. Sensory Evaluation of Foods. Introduction to the neuroscience of taste and sensory analysis theory and techniques. Practical tools to select, conduct, and statistically analyze appropriate tests. One lecture hour and six laboratory hours a week. Credit: Three hours.

NFS 5023. Food Analysis. Objective analysis and evaluation of properties of foods and food systems during processing, development, and storage. Prerequisite: NFS 5003 Food Chemistry. Two lecture hours and six laboratory hours a week. Credit: Three hours.

NFS 5033. Eating Behaviors and Eating Disorders. Examination of the cultural, societal, and psychological influences on eating behaviors with specific attention to the causes and treatment of various types of eating disorders. Three lecture hours per week. Credit: Three hours.

NFS 5043. Nutritional Aspects of Vegetarianism. Degrees of vegetarian regimens (e.g. lacto-ovo, vegan); potential health benefits from adopting a vegetarian diet, ensuring nutritional adequacy of vegetarian diets throughout the life cycle; potential nutritional deficiencies arising from the partial or complete avoidance of animal products; current research; recent advances in dietetic practice. Three lecture hours a week. Credit: Three hours.

NFS 5063. Food Toxicology. Principles of toxicology and adverse effects of contaminants in foods of chemical and biological origin on human health; application of principles to food safety. Prerequisites: NFS 3323, BACT 2011, 2013 or permission of instructor. Three lecture hours a week. Credit: Three hours.

NFS 5123. Food and Nutrition Issues for Educators. Application of nutrition principles and guidelines to improve health with particular emphasis on women's health issues. Relationship of nutrition and chronic disease, energy balance and weight management, dietary supplements, eating disorders, maternal and infant nutrition, sports nutrition, food safety, and food labeling. Students will gain experience in locating food and nutrition resources and developing lesson plans. Course is designed for family/consumer sciences or allied health professionals. May not be applied toward a graduate major or minor in Nutrition. Prerequisite: NFS 2323 or equivalent. Three lecture hours a week. Credit: Three hours.

NFS 5133. Professional Internship for Exercise and Sports Nutrition. Application of exercise and sports nutrition knowledge in varied practice settings. Student is required to complete 150 clock hours of supervised practice during a minimum of eight weeks (10-19 hours of work per week). Fifteen laboratory hours a week. Credit: Three hours.

NFS 5303. Experimental Food. Application of scientific principles and experimental procedures to food preparation, including food product development studies and projects. Sensory evaluation and laboratory analysis. One lecture, six laboratory hours a week. Credit: Three hours.

NFS 5314. Nutrition and Human Metabolism. Nutritional biochemistry; chemistry, digestion, absorption, transport, regulation, function, and metabolism of nutrients; relationships between dietary intake, intermediary metabolism, and pathogenesis and health. Prerequisite: 6-7 hours upper level undergraduate nutrition courses (Advanced Nutrition and Nutrition through the Lifecycle). Four lecture hours a week. Credit: One hour.

NFS 5321. Seminar in Food Science. General overview of topics related to food science and technology including a review of current literature. Special emphasis on current areas of research including product development. NFS 5331 may be used as a substitute for NFS 5321. One lecture hour a week. Credit: One hour.

NFS 5331. Seminar in Nutrition. Current research in nutrition and nutritional care. Credit: One hour. For M.S. students only.

NFS 5343. Advanced Nutritional Care. Nutritional care including diet therapy; current research in dietary care; dietary treatment of metabolic diseases. Prerequisite: NFS 5314 or permission of instructor. Three lecture hours a week. Credit: Three hours.

NFS 5363. Human Nutrition in Disease. The role of nutrition in the etiology and prevention of gastrointestinal, endocrine diseases, including cardiovascular disease, cancer, and urological disorders. Prerequisite: NFS 5314 or permission of instructor. Three lecture hours a week. Credit: Three hours.

NFS 5373. Food Science and Technology. Basic principles of food preservation; changes occurring during processing and storage; control of changes in food due to enzymes, microorganisms, and chemical reactions. Three lecture hours. Credit: Three hours.

NFS 5384. Assessment of Human Nutrition. Methods in assessment of nutritional status. Three lecture hours and three laboratory hours a week. Credit: Four hours.

NFS 5423. Nutrition and Gerontology. Nutritional status of older adult, normal, and therapeutic nutrition; metabolic pathways of the nutrients, sociological, and physiological factors. Prerequisite: NFS 4302 or equivalent and NFS 4303 or equivalent. Three lecture hours a week. Credit: Three hours.

NFS 5443. Nutrition and Women's Health. Relationship between nutrition/nutrients and health issues of women, including Alzheimer's disease, cancer (breast, colon, cervical and ovarian, and lung), diabetes, heart disease, overweight and obesity; current statistics, etiology, symptoms, treatment, and preventive measures of each health issue. Three lecture hours a week Credit: Three hours.

NFS 5453. Nutrition Education. Dissemination of nutritional knowledge to various ethnic and age groups; cultural and environmental factors in dietary planning and selection; practical experiences included. Prerequisite: NFS 4302 or equivalent and NFS 4303 or equivalent. Three lecture hours a week. Credit: Three hours.

NFS 5471. Clinical Aspects of Human Nutrition. Application of the principles of biochemistry, physiology, and nutrition in the treatment of human disease. Prerequisite or corequisite: Admission to the MEDVAMC Dietetic Internship Program. Credit: One hour.

NFS 5472. Clinical Aspects of Human Nutrition. Application of the principles of biochemistry, physiology, and nutrition in the treatment of human disease. Prerequisite or corequisite: Admission to the MEDVAMC Dietetic Internship Program. Credit: Two hours.

NFS 5473. Advanced Preventive Nutrition. Types of prevention; evidence for the role of dietary nutrients in preventing major causes of morbidity and mortality (e.g., cardiovascular disease, cancer); national goals for health promotion; dietary guidelines for health promotion and disease prevention; position statements on diet and health. Prerequisites: NFS 2323 or equivalent. Three lecture hours a week. Credit: Three hours.

NFS 5521. Nutrition for Collegiate and Professional Sports. Application of evidence-based nutrition information in real life sports settings. Case studies including fueling strategies, weight management, hydration and supplements, training table, traveling, and food challenges with individual athletes. Prerequisites: Nine hours of Nutrition courses. One lecture hour a week. Credit: One hour.

NFS 5543. Nutrition in Pregnancy and Infancy. Understanding of nutrition in cellular growth of the whole body and individual organs; physiological changes during pregnancy; maternal-fetal exchange of nutrients; and the influence of nutrition and its nutrient requirements on pregnancy outcome and on the growth and mental developments of infants. Three lecture hours a week. Credit: Three hours.

NFS 5583. Nutrition and Exercise. Application of nutrient recommendations to sports and exercise states, differences between scientifically acceptable protocols relating exercise and nutrition and unproven myths, and biochemistry of

exercise. Laboratory projects designed to provide information and dietary intervention programs to individuals or groups interested in sports nutrition. Prerequisites: Six upper level undergraduate nutrition hours and NFS 5314. Two lecture and two laboratory hours a week. Credit: Three hours.

NFS 5623. Nutraceuticals and Dietary Supplements. Critical evaluation of issues, concepts, and controversies about dietary supplements and nutraceutical ingredients. Emphasis on the importance of scientific investigations to evaluate their efficacy, safety, and value for health promotion, disease prevention, and treatment. Prerequisites or corequisites: Graduate standing. Three lecture hours a week. Credit: Three hours.

NFS 5663. Body Composition and Weight Management. Application of principles of nutritional assessment including factors relating to body composition and proper weight control practices. Laboratory procedures and equipment designed to facilitate assessments. Two lecture hours and two laboratory hours a week. Credit: Three hours.

NFS/KINS 5681. Sports Nutrition Practicum. Field experiences working with athletic teams or individuals at fitness facilities to provide sports nutrition education to maximize training benefits and performance. May be repeated for additional credit. Three practicum hours per week. Credit: One hour.

NFS 5693. Nutrition and Metabolic Syndrome. Pathophysiology of Metabolic Syndrome; metabolic syndrome and cardiovascular disease; relevance of nutrition in development and treatment of metabolic syndrome. Prerequisite or corequisite: NFS 5314. Three lecture hours a week. Credit: Three hours.

NFS 5713. Human Resource Management in Nutritional Care Systems. The course will provide the student with information concerning the functions of personnel management, recruitment, job description construction, benefits and compensation programs, unionization, and proper managerial and legal techniques to resolve conflicts. Three lecture hours a week. Credit: Three hours.

NFS 5721. Seminar in Food Systems Administration. Recent developments in research related to foodservice systems management. NFS 5331 may be used as a substitute for NFS 5721. One lecture hour a week. Credit: One hour.

NFS 5723. Nutritional Care Applications. Exploration, analysis, and application of principles of the nutrition care process, nutritional assessment and methods of nutrition support. Provides the foundation for nutrition care skills in the clinical setting. Corequisites: NFS 5813 or NFS 5472 or permission of instructor. Three lecture hours a week. Credit: Three hours.

NFS 5733. Productivity and Quality Improvement for Foodservice Systems. Study of productivity, decision-making, work simplification, and continuous quality improvement for foodservice systems. Group or individual investigations in institutional administration, supervised observations, conferences, and reports. Prerequisite: Six hours of institutional administration. Three lecture hours a week. Credit: Three hours.

NFS 5743. Cost Analysis for Foodservice Systems. Cost analysis and controls in the management of foodservice systems. Emphasizes quality assurance; food, labor, and energy control; and financial analysis. Utilization of the computer as a management tool. Three lecture hours a week. Credit: Three hours.

NFS 5753. Foodservice Facility Design and Management. Facility design and management for institutional foodservice operations. Preliminary planning, facility layout, space allocation, utilities, environmental planning, security management, and equipment selection. Prerequisite: NFS 3713, 3722 or equivalent. Three lecture hours a week. Credit: Three hours.

NFS 5763. Food Safety/Foodborne Illness. Study of foodborne illness in relation to food handling practices in foodservice systems and food industry. Hazard Analysis Critical Control methods, risk management, government initiatives and current research in food safety. Prerequisites: BACT 1001, 1003; NFS 3722, 3713 or equivalent. Three lecture hours a week. Credit: Three hours.

NFS 5773. Organization and Management for Foodservice Systems. Principles of management as applied to foodservice organizations. Study of interaction of menu planning, purchasing, food production, service and distribution, personnel management and financial control. Prerequisite: NFS 3713 and NFS 3722. Three lecture hours a week. Credit: Three hours.

NFS 5801. Advanced Counseling Strategies for Dietetic Practitioners. Counseling strategies for presenting effective dietary modification to individuals and groups. Prerequisite: NFS 5813 and/or 2 years clinical experience. One lecture hour a week. Credit: One hour.

NFS 5813. Internship Experience in Nutritional Care. Application of nutritional care skills in the clinical setting. Acceptance to a dietetic internship is required. May be repeated for credit. Credit: Three hours.

NFS 5833. Principles of Clinical Instruction in Nutritional Care. Experiential development of skills and evaluation techniques for clinical instructors in and approved programs. Nine clinical hours a week. May be repeated for additional credit. Credit: Three hours.

NFS 5893. Advanced Nutritional Epidemiology. Advanced epidemiological concepts; design of observational and interventional studies; estimation of energy and nutrient intakes; biomarkers of nutritional status; ongoing clinical trials; current literature. Prerequisites: Nine hours of nutrition and three hours of graduate statistics. Three lecture hours a week. Credit: Three hours.

NFS 5901. Special Topics. Lectures or conferences on recent developments in nutrition. May be repeated with change of topic for additional credit. Prerequisite: Permission of the instructor. Credit: One hour.

NFS 5903. Special Topics. Lectures or conferences on recent developments in nutrition. May be repeated with change of topic for additional credit. Prerequisite: Permission of the instructor. Credit: Three hours.

NFS 5911. Individual Study. Intensive study of a problem in individual or professional interest in nutrition, food sciences, or institution administration. Credit: One hour.

NFS 5913. Individual Study. Intensive study of a problem of individual or professional interest in nutrition, food sciences, or food systems management. Credit: Three hours.

NFS 5923. Research in Food Systems Management. Research in organization and management of quantity foodservice. Group and individual conferences and laboratory hours to be arranged. May be repeated for credit. Credit: Three hours.

NFS 5953. Cooperative Education. Cooperative work-study arrangements between the University, business, industry, or selected institutions appropriate to the graduate program. Job assignments are made on the basis of student interests, skills, and degree program. The student will apply the ideas and processes learned in other courses in practical experience under cooperative supervision. Cooperative planning and evaluation are essential elements in the course. Fifteen-twenty hours of work per week. Credit: Three hours.

NFS 5961. Research in Nutrition and Food Sciences. Individual research problem in a specific area of food and nutrition. Experimental animals may be used. Group and individual conferences. Credit: One hour.

NFS 5963. Research in Nutrition and Food Sciences. Individual research problem in a specific area of food and nutrition. Experimental animals may be used. Group and individual conferences. Credit: Three hours.

NFS 5973. Professional Paper. Not for students admitted after May 31, 2010. Prerequisite: Statistics. Credit: Three hours.

NFS 5983. Thesis. Credit: Three hours.

NFS 5993. Thesis. Prerequisite: NFS 5983. Credit: Three hours.

NFS 6003. Food Lipids. Application of basic lipid chemistry principles to analyze properties of food and food system lipids; functional properties of lipids and their effects on food systems. Prerequisite: NFS 5003 Food Chemistry or Biochemistry. Three lecture hours a week. Credit: Three hours.

NFS 6013. Art and Science of Grant Development. Practical tools for identifying funding sources, making contacts, and writing successful grant proposals. Discussion of federal guidelines. Preparation and evaluation of research proposal. Prerequisite: Twelve hours of graduate work. Three lecture hours a week. Credit: Three hours.

NFS 6031. Critical Evaluation of Scientific Literature. Critical evaluation of current literature in nutrition, food science, and/or food systems administration. One seminar hour per week. Credit: One hour.

NFS 6113. Nutrition and Cancer. Overview of nutrition and cancer at the population, cellular, and molecular levels; roles of nutrients and non-nutrients in cancer prevention. Prerequisite: NFS 5314 or permission of instructor. Three lecture hours a week. Credit: Three hours.

NFS 6123. Micronutrients in Human Nutrition. Metabolic functions, metabolism, interrelationships, possible toxicity, and bioavailability of the vitamins and minerals based on current literature and research. Prerequisite: NFS 5314. Three lecture hours a week. Credit: Three hours.

NFS 6124. Macronutrients in Human Nutrition. Fundamental roles and energy transformation of carbohydrates, lipids, and proteins in human nutrition. Emphasis on function, metabolism, and interrelationships of the macronutrients based on current literature and research. Prerequisite: NFS 5314. Four lecture hours a week. Credit: Four hours.

NFS 6133. Drug and Nutrient Interactions. Effect of drugs on absorption and metabolism of nutrients, role of nutrients in drug detoxification; use of nutrients as drugs; toxic and megadoses of vitamins; combinations of drugs and diet in the treatment of disease; effect of nutritional status on drug and nutrient binding. Prerequisite: NFS 5314 or permission of the instructor. Three lecture hours a week. Credit: Three hours.

NFS 6163. Nutritional Aspects of Obesity. Role of nutritional factors and their interplay with biochemical, physiological, genetic, and psychosocial factors in the etiology of obesity. Adverse health consequences of obesity. The role of nutrition intervention, exercise, pharmacological treatment, and surgical intervention and their nutritional sequelae. Prerequisite: NFS 5314. Three lecture hours a week. Credit: Three hours.

NFS 6173. Professional Practicum. Guided field experience in administrative supervisory, consultant, or similar level positions. Field experiences may not be part of the student's regular job responsibilities. Credit: Three hours. May be repeated for three additional credits.

NFS 6203. Advanced Research Techniques. Select laboratory techniques in separation and measurements of proteins (ELISA, Western Blot gel chromatography), cell culture techniques; cell separation and culture. Credit: Three hours.

NFS 6233. Postharvest Physiology. Postharvest physiology for horticulture and agronomy of fruits and vegetables and other plants consumed for food; the cellular and subcellular structure of harvested products continuing through metabolic alterations and changes in biochemical constituents after harvest; environmental factors that cause stress after harvest, the principles of ripening gases, and other treatments including modified atmosphere packaging. Three hours of lecture. Credit: Three hours.

NFS 6331. Advanced Seminar in Nutrition. This course will accommodate both doctoral and master's students with more emphasis on current topics in ever-changing nutrition research. Seminars designed to cover state of the art overview of current and emerging topics will be presented by invited outside guest speakers, TWU faculty, and graduate students. Credit: One hour.

NFS 6413. Nutrition and Genomics. Current research on the relationship of genetic inheritance to risk of chronic disease and the response to medical nutrition therapy. Methods, benefits, and risks of genetic modification of food will be discussed. Prerequisites: NFS 5314 (or concurrent), upper level undergraduate biochemistry and physiology, or permission of instructor. Three lecture hours a week. Credit: Three hours.

NFS 6903. Special Topics. Specially scheduled course on topic of current interest. Credit: Three hours. May be repeated for additional credit.

NFS 6911. Individual Study. Intensive study of a problem of individual or professional interest in nutrition, food sciences, or institution administration. Credit: One hour.

NFS 6913. Individual Study. Intensive study of a problem of individual or professional interest in nutrition, food sciences, or food systems management. Credit: Three hours.

NFS 6921. Advanced Research in Nutrition and Food Science. Individual research problem in a specific area of food and nutrition. Group and individual conferences. May be repeated for credit. Credit: One hour.

NFS 6923. Advanced Research in Nutrition and Food Science. Individual research problem in a specific area of food and nutrition. Group and individual conferences. May be repeated for credit. Credit: Three hours.

NFS 6931. Advanced Research in Nutrition. Research problems in radiographic bone densitometry, metabolic balance studies; nutritional status of children and of older persons. Groups and individual conferences and laboratory hours to be arranged. Credit: One hour.

NFS 6933. Advanced Research in Nutrition. Research problems in radiographic bone densitometry, metabolic balance studies; nutritional status of children and of older persons. Groups and individual conferences and laboratory hours to be arranged. Credit: Three hours.

NFS 6941. Advanced Research in Food Science. Selection and study of individual research problems in a selected specific area of foods; objective and subjective methods of product evaluation. Credit: One hour.

NFS 6943. Advanced Research in Food Science. Selection and study of individual research problems in a selected specific area of foods; objective and subjective methods of product evaluation. Credit: Three hours.

NFS 6983. Dissertation. Credit: Three hours.

NFS 6993. Dissertation. Prerequisite: NFS 6983. Credit: Three hours.

School of Occupational Therapy

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*Faculty: **Denton:** Associate Professors C. Candler, C. Evetts; Assistant Professors H. Amerih, G. Poskey; Associate Clinical Professors D. Brown, S. Harnish, E. Raffin; Assistant Clinical Professor M. Hennigan.*

***Dallas:** Professor S. Schultz; Associate Professors R. Campbell, M. Neville, N. Pickens; Assistant Professor T. Fletcher; Associate Clinical Professor D. Buckingham; Clinical Instructor J. Lipoma.*

***Houston:** Professors J. Chan, G. Hersch; Associate Professors F. Baxter, J. Bowman, P. Bowyer, H. Davidson; Assistant Professor P. Chang.*

Graduate Degrees Offered

M.O.T. entry-level professional degree provides eligibility for certification by NBCOT.

Ph.D. in Occupational Therapy

Occupational therapy is a health care profession whose members work to foster full participation in everyday life for persons with physical, cognitive, emotional, or societal restrictions. Occupational therapy is based on the premise that engagement in real life activities in prescribed areas with specific goals promotes health and wellness. The School of Occupational Therapy at Texas Woman's University offers graduate level training and education for persons seeking to initiate or to expand a career in occupational therapy. The school is home to 25 faculty members and over 5,000 alumni and encompasses a Texas-wide network of professionals dedicated to the advancement of high quality evidence-based occupational therapy practice. The occupational therapy programs are available at the main campus of Texas

Woman's University in Denton, the T. Boone Pickens Institute of Health Sciences in Dallas, and the TWU Institute of Health Sciences in Houston. Specific online components supplement traditional classroom learning. At each location, courses are conducted in classrooms and laboratories specially equipped to enhance student learning. Lecture and laboratory learning experiences are provided by experienced occupational therapy faculty, occupational therapy practitioners, physicians, and other health care providers. TWU offers degree programs leading to the Master of Occupational Therapy and Doctor of Philosophy in Occupational Therapy.

Overview of Degrees offered in Occupational Therapy

The Master of Occupational Therapy (M.O.T.) degree is a professional entry-level degree that prepares students with baccalaureate degrees in other fields to become occupational therapists. The curriculum is taught in Denton, Dallas, and Houston. Master of Occupational Therapy students complete all courses at one of these sites. Master of Occupational Therapy coursework is similar at all locations, however, entry and sequence is structured differently on each campus to meet different readiness levels. Prospective students are encouraged to apply to the campus that best matches their needs.

The Master of Occupational Therapy program is accredited by the Accreditation Council of Occupational Therapy Education (ACOTE*). With successful completion of the Master of Occupational Therapy degree, the student is eligible to apply for the certification examination given by the National Board for Certification of Occupational Therapy (www.nbcot.org). *Note: Students are advised that NBCOT may deny an individual's application to take the exam if he or she has a criminal felony conviction. The School of OT recommends that students with a felony conviction contact NBCOT for an "early determination review."*

The Doctor of Philosophy degree is a post-professional graduate program for occupational therapists with either an NBCOT certification, or a diploma from baccalaureate level programs recognized by the World Federation of Occupational Therapists. It is designed to develop skills for advanced academic and research pursuits. The doctorate is offered via on-line and on-campus learning experiences in Dallas and Houston.

Admission Requirements

Please see the admission section of this catalog. In addition to these general requirements, the School of Occupational Therapy requires the following.

Master of Occupational Therapy Dallas/Houston – applicants with a bachelor's degree

Entry into the Master of Occupational Therapy program on the Dallas or Houston campuses is structured for students who have completed specified undergraduate coursework and who hold a bachelor's degree in any major from an

*ACOTE, P.O. Box 31220, Bethesda, MD 20824-1220, 301-652-2682

accredited institution. The Master of Occupational Therapy program on the Dallas or Houston campus is a 28-month full-time educational commitment, inclusive of a six-month internship. Cohorts of 42-45 students are admitted each fall semester to each campus.

Applicants must complete the following prerequisites with a cumulative GPA of 3.0 or better prior to beginning M.O.T. courses: statistics, human anatomy and physiology, developmental psychology, abnormal psychology, and medical terminology. Note: it is not necessary to have completed all prerequisite work prior to making application for the program. Applicants must also complete a minimum of twenty hours of observation, volunteer, or paid employment under the supervision of a registered occupational therapist and participate in an on-campus interview and essay. Students may select either the Dallas or Houston campus.

Master of Occupational Therapy Denton – applicants pursuing early entry into the M.O.T. program

Entry into the Master of Occupational Therapy program on the Denton campus is structured for students who are entering or currently engaged in undergraduate coursework at Texas Woman's University. The early entry program is an accelerated degree plan that combines undergraduate and graduate level study. Students select one of five undergraduate majors: Child Development, Family Studies, Kinesiology, Health Studies, or Psychology. Undergraduate core requirements, the required courses in the major, and prerequisite courses specified in the undergraduate major's pre-OT degree plan are completed.

A minimum of 2 semesters prior to completion of both core and the undergraduate major courses, pre-OT students apply to the School of Occupational Therapy for admission to occupational therapy coursework. Applicants must complete the following prerequisites with no more than two attempts at any course content and a cumulative GPA of 3.0 or better prior to beginning M.O.T. courses: statistics, human anatomy and physiology, sociology, developmental psychology, abnormal psychology, kinesiology/biomechanics, medical terminology and neuroanatomy and physiology.

Applicants must complete a minimum of twenty hours of observations, volunteer, or paid employment under the supervision of a registered occupational therapist and participate in an on-campus interview and essay. Accepted students may graduate with a B.S. in the undergraduate major with an emphasis in occupational therapy. The Master of Occupational Therapy degree is completed with remaining graduate coursework in occupational therapy.

Master of Occupational Therapy – part-time weekend/online program for COTAs

The COTA-Bridge Master of Occupational Therapy program is structured for practicing certified occupational therapy assistants with a minimum of one full year experience, who have completed specified undergraduate prerequisite coursework and who hold a bachelor's degree in any major from an accredited institution. The COTA-Bridge Master of Occupational Therapy program is delivered online and

in weekend on site sessions on the Denton campus. The program requires forty months for completion, inclusive of a six month internship. Approximately 15 students are admitted each fall semester.

Applicants must complete the following prerequisites prior to beginning Master of Occupational Therapy courses: statistics, human anatomy and physiology, developmental psychology, and abnormal psychology. Note: it is not necessary to have completed all prerequisite work prior to making application for the program. In addition, applicants must provide verification of one year's clinical experience as a certified occupational therapy assistant, a recommendation form completed by a licensed occupational therapist who can document a minimum of 1 month of COTA clinical experience with that individual, one additional letter of recommendation from a supervising licensed occupational therapist, resume, and a copy of current occupational therapy assistant license.

Doctor of Philosophy

Admission requirements include (a) master's degree in occupational therapy or a related field; comparable graduate level degree may be substituted subject to review by doctoral admissions committee; (b) minimum GPA of 3.2 in previous graduate work; (c) submission of scores in verbal, and quantitative sections of the Graduate Record Exam; (d) satisfactory English language proficiency score (if applicable); (e) initial certification as an occupational therapist by NBCOT; and (f) three letters of reference. Graduates from non U.S. baccalaureate programs, recognized by the World Federation of Occupational Therapists, who otherwise meet admission requirements need not be certified by the NBCOT to pursue the Ph.D. in occupational therapy. Ph.D. applicants, who meet basic admission criteria, are asked to submit a written essay of no more than 1000 words addressing professional goals, prior experience that may form the foundation for doctoral work, and potential research directions. The doctoral admissions committee reviews the applicants and invites selected individuals for a personal interview with the committee. Year-round admission.

General Requirements to complete the Master of Occupational Therapy

Total Credit Hours Required: 83 hours

Special Requirements:

Immunizations: Occupational therapy is a health care field. Each student must submit documentation that required immunizations are current to Student Health Services at Texas Woman's University **prior** to registration in any occupational therapy course. Immunizations must remain current throughout enrollment.

Access to Agencies Providing Fieldwork Experiences: Master of Occupational Therapy coursework includes requirements that must be completed at clinical fieldwork sites. The responsibility of meeting the access requirements of agencies

providing fieldwork placements belongs to the student at their own expense, following procedures outlined at each campus. The School of Occupational Therapy does not guarantee student access to fieldwork sites. Inability to complete fieldwork requirements may result in a delay or failure to complete the M.O.T. program.

Malpractice Insurance: Each student must present proof of ownership of malpractice insurance available in the state of Texas each academic year of enrollment.

Time Limits: All academic courses must be completed within no more than 36 months. For students enrolled in the part-time weekend/online program for COTAs all academic courses must be completed within no more than 48 months. All fieldwork experiences in the Master of Occupational Therapy program must be completed within 24 months of academic coursework completion.

Grade Requirements:

- Students must meet the academic requirements of the Graduate School throughout their course of study in the M.O.T. Program.
- Pre-OT students must maintain a cumulative 3.0 GPA on all OT undergraduate courses.
- Students who earn a grade of 'D', 'F' or 'WF' in an occupational therapy course will be dismissed from the M.O.T. program.
- Students placed under academic probation by the Graduate School a second time will be dismissed from the M.O.T. program.

Final Examination: Successful completion of the capstone course is required prior to enrollment in Fieldwork Level II experiences.

Internship (Level II Fieldwork) Requirements: The Master of Occupational Therapy degree requires six months internship completed in three month rotations at two fieldwork sites. Fieldwork sites are independent agencies and maintain their own requirements. Fieldwork agencies may request proof of immunization (www.twu.edu/student-health-services/immunizations.asp), background checks, drug screens, proof of liability and/or personal insurance, CPR training, or fingerprinting. When this is required by an agency, all students assigned to that agency will need to meet any requirements *at their own expense*, following procedures outlined at each campus. Failure to meet the requirements may result in delay or failure to complete the M.O.T. program.

All academic courses must be completed successfully before admission to Level II fieldwork experiences. Any student failing to complete assigned fieldwork experience with a passing grade may repeat said fieldwork experience one time only. Permission to repeat the course must be obtained from the Director. A student failing to complete said fieldwork experience satisfactorily on the second attempt shall be terminated from the program.

All fieldwork experiences in the Master of Occupational Therapy program must be completed within 24 months of academic coursework application.

Master of Occupational Therapy Curriculum Design

The School of Occupational Therapy offers a curriculum that is sequential and designed for completion of a specified set of integrated required courses each semester (Figure 1). Thus students progress through the program as a cohort. Courses in each semester are organized around three domains of content: Occupation, Process, and Practice. Within these three domains, there are strands of content that run longitudinally through the curriculum. The Occupation Domain consists of the theoretical bases of practice and the occupational participation strands. The Process Domain focuses on scholarly inquiry and principles of intervention. The Practice Domain is comprised of tools and modalities and professional reasoning courses with fieldwork experiences. Each semester of the program is a module made up of progressive integrated learning opportunities. Each module contains consistent elements of the strands of learning in a lifespan presentation that increase in complexity as the student progresses through the curriculum.

**Texas Woman's University School of Occupational Therapy
Master of Occupational Therapy Model of Curriculum Design**

	OCCUPATION		PROCESS		PRACTICE	
	Knowledge Bases	Occupational Participation	Scholarly Inquiry	Performance & Adaptation	Tools and Modalities	Professional Reasoning and FW
Module 1 FALL	<ul style="list-style-type: none"> • Foundations of Occupational Therapy • Movement in Context • Clinical Neuroscience 		<ul style="list-style-type: none"> • Scholarly Inquiry 		<ul style="list-style-type: none"> • Persons/Tools Occupations 	
Module 2 SPRING		<ul style="list-style-type: none"> • Occupational Participation: Adolescent/ Young Adulthood 	<ul style="list-style-type: none"> • Applied Research Methods in Occupational Therapy • Appraising Evidence Seminar 	<ul style="list-style-type: none"> • Occupational Adaptation Adolescent/ Young Adult Laboratory • Evaluation processes 		<ul style="list-style-type: none"> • Professional Reasoning and Fieldwork: Adolescent/ Young Adulthood
Module 3 SUM		<ul style="list-style-type: none"> • Occupation, Wellness and Adaptation 		<ul style="list-style-type: none"> • Mental Health and Social Participation 		<ul style="list-style-type: none"> • Professional Reasoning and Fieldwork: Mental Health and Community
Module 4 FALL	<ul style="list-style-type: none"> • Design Evaluation and Managing Systems 	<ul style="list-style-type: none"> • Occupational Participation: Middle to Late Adulthood 		<ul style="list-style-type: none"> • Occupational Adaptation Middle to Late Adulthood Laboratory 	<ul style="list-style-type: none"> • Assistive and Computer Technology Tools in Practice 	<ul style="list-style-type: none"> • Professional Reasoning and Fieldwork: Middle to Late Adulthood
Module 5 SPRING		<ul style="list-style-type: none"> • Occupational Participation: Infancy and Childhood 		<ul style="list-style-type: none"> • Occupational Adaptation Infancy and Childhood Laboratory 	<ul style="list-style-type: none"> • Rehabilitation Technology in Practice 	<ul style="list-style-type: none"> • Professional Reasoning and Fieldwork: Infancy and Childhood • Capstone
Module 6 SUM-FALL						Fieldwork Level II

TWU School of Occupational Therapy

In addition students select an additional 2-3 credit hours of elective credit from offered coursework, research practicum, or professional paper.

The degree plan below reflects the Master of Occupational Therapy curriculum as it is presented in Dallas and Houston. Degree plans based on the pre-OT early entry and COTA Bridge in Denton are variations on this model.

Year 1

<i>First Semester</i>	<i>Second Semester</i>	<i>Summer</i>
OT 5163	OT 5002	OT 5122
OT 5512	OT 5001	OT 5232
OT 5003	OT 5553	OT 5833
OT 5142	OT 5522	*Elective
OT 5132	OT 5352	
	OT 5823	
13 Credit Hours	13 Credit Hours	7-9 Credit Hours

Year 2

<i>Fourth Semester</i>	<i>Fifth Semester</i>	<i>Fieldwork II</i>
OT 5753	OT 5573	Option 1. OT 5916
OT 5563	OT 5322	OT 5926
OT 5722	OT 5932	Option 2. OT 5936
OT 5732	OT 5853	OT 5946
OT 5843	OT 5992	Option 3. OT 5956
*Elective	*Elective	OT 5966
		Option 4. OT 5976
		OT 5986
		6 months full time training
13-15 Credit Hours	12-14 Credit Hours	24 Credit Hours
		All students must select Option 1.
		Second course may be selected from
		Options 2, 3, or 4.

General Requirements for Doctor of Philosophy in Occupational Therapy

Total hours required: The doctoral curriculum must include a minimum of 90 hours of masters/doctoral level coursework beyond the bachelor’s degree. Coursework that was completed as part of a related master’s degree can (with Ph.D. advisory committee approval) be applied to the Ph.D. degree plan (maximum of 45 semester credit hours). There is no time limit on the age of courses included in the master’s degree plan. Additional coursework (including dissertation) that is included on the Ph.D. degree plan must be completed within 10 years of the first course as a doctoral student. In addition, more than 50% of the credit hours included on a degree plan must be awarded at TWU.

PhD/OT Curriculum

Courses within Four Strands

OT Knowledge Base

Research Tools

Electives & Individualized Study Dissertation

The organized class courses are offered in a lock-step sequence for each cohort and taught in blended format with both online and face-to-face learning.

Knowledge Base (15 credit hours required)

OT 6223	Theory and Knowledge Develop. in Occupational Therapy
OT 6243	Learning Designs in Occupational Therapy
OT 6353	Neuroscience of Occupation and Adaptation
OT 6343	Theory of Occupational Adaptation
OT 6333	Occupation in Context

Research Tools (12 credit hours of research tool course work required)

OT 6363	Statistical Analysis in OT
OT 6553	Applied Research Design and Methods
OT 6623	Instrumentation in Occupational Therapy

One of the three courses below:

OT 6643	Advanced Qualitative Methods in Occupational Therapy
OT 6373	Grant Writing for Occupational Therapy
	Elective research tool course work (requires Academic Advisory Committee approval)

Electives (6 credit hours of course work below is required)

OT 6643	Advanced Qualitative Methods in Occupational Therapy
OT 6823	Current Issues & Trends in Occupational Therapy
OT 6253	Scholarly Writing for Occupational Therapists
OT 6373	Grant Writing for Occupational Therapy
OT 6913	Independent Study (requires Academic Advisory Committee approval)

Independent Study (6 credit hours of course work below is required – may be repeated for credit)

OT 6563	Programmatic Research Planning (Required)
OT 6433	Teaching Practicum in Occupational Therapy
OT 6913	Independent Study (requires Academic Advisory Committee approval) Outside Electives may be included in degree plan under advisement of Research Mentor. Students are encouraged to take advantage of graduate coursework outside of TWU and/or OT to broaden/strengthen his or her program of study.

Dissertation

OT 6983	Dissertation (proposal) – repeated until successfully defended
OT 6993	Dissertation (research/final defense) – repeated until dissertation completed

Qualifying Examination: The overall purpose of a qualifying exam is to 1) stimulate the student's synthesis of knowledge, 2) evaluate the student's progress in acquiring necessary knowledge and skills at the doctoral level, and 3) evaluate the student's potential to be successful in conducting dissertation level research. Students must satisfactorily complete the qualifying examination before they are eligible to become a doctoral candidate and enroll in dissertation course work. Students may petition to sit for the examination in the semester preceding completion of required coursework. The exam is offered twice a year. The qualifying examination may be repeated once if necessary.

Dissertation Final Examination: Doctoral candidates must demonstrate successful completion and oral defense of their dissertation. The defense may be repeated if necessary.

Residence Requirement: None

Minors Offered to Students from Other Departments

None.

Courses of Instruction in Occupational Therapy

OT 5001. Appraising the Evidence Seminar. Evaluating clinical research evidence and the applicability of such evidence to make practice decisions. One seminar hour per week. Credit: One hour.

OT 5002. Applied Research Methods in Occupational Therapy. Predominant qualitative and quantitative occupational therapy research paradigms. Evaluation of the rigor and validity of research studies. Application of descriptive, correlation, inferential statistics, and basic qualitative coding strategies in formulating a mixed methods research project. Two lecture hours per week. Credit: Two hours.

OT 5003. Clinical Neuroscience for Occupational Therapy. Relationship between occupational performance and the fundamentals of neuroanatomy and physiology. Review of clinical cases that illustrate implications for occupational therapy intervention when disruption within the central and peripheral nervous system results in dysfunction. Three lecture hours per week. Credit: Three hours.

OT 5022. Occupational Therapy Research Practicum. Participation in implementation of a faculty-sponsored project that is relevant to the practice of occupational therapy utilizing documented and referenced method of systematic inquiry. Collection and/or organization, analysis and/or preparation for dissemination of information according to the method of systematic inquiry designated in the work. May be repeated for credit. Credit: 2 hours.

OT 5101. Professional Paper in Occupational Therapy. Completion of a professional paper in occupational therapy. Credit: May be repeated for credit. One hour.

OT 5122. Occupation, Wellness, and Adaptation. Examination of health and wellness and disability prevention models. Practice of occupational therapy in wellness, health, and prevention programs. Two lecture hours per week. Credit: Two hours.

OT 5132. Persons, Tools, and Occupations. Exploration of purpose and meaning of occupations with emphasis on play, games, and crafts. Experience with the process of activity analysis including documentation of observations. Practical application of materials, tools and self in individual and group settings. One lecture and three lab hours per week. Credit: Two hours.

OT 5142. Scholarly Inquiry. Principles of scholarly activity, research, and research evidence in the development of a science-based body of knowledge to ground the practice of occupational therapy. Criteria for evaluating research for application, research ethics, occupational therapy literature and related resources including grants. Two lecture hours per week. Credit: Two hours.

OT 5163. Foundations of Occupational Therapy. Overview of the occupational therapy history, occupation and occupational science. Survey of current practice, including scope, standards, theories, models, and ethics. Principles of occupational therapy practice framework; professional/ clinical reasoning; and professional behaviors. Three lecture hours a week. Credit: Three hours.

OT 5202. Professional Paper in Occupational Therapy. Participation in the implementation of a faculty-sponsored research endeavor relevant to the practice of occupational therapy utilizing documented and referenced method of systematic inquiry. Development of a research proposal; participation in the collection and/or organization and analysis of information according to the method of systematic inquiry designated in the work. Credit: Two hours.

OT 5232. Mental Health and Social Participation. Knowledge and application of evaluation and intervention principles for psychosocial practice in clinical and in community settings. Principles and practice of group process and interventions. One seminar and three laboratory hours per week. Credit: Two hours.

OT 5322. Occupational Performance and Adaptation in Infancy and Childhood Laboratory. Performance of evaluation, intervention, and outcome measures consistent with developmental level for infants and children with pediatric conditions and/or congenital anomalies. Practice in selection, implementation, analysis, and grading of interventions appropriate to infants and children. One seminar and three lab hours per week. Credit: Two hours.

OT 5352. Evaluation Processes in OT. Practice framing problems in role participation, occupational performance and component dysfunction through a systematic evaluation process. One lecture and two lab hours per week. Credit: Two hours.

OT 5512. Knowledge Bases Movement in Context. Occupational therapy assessment of the musculoskeletal system, mechanical principles, clinical conditions for biomechanical intervention and treatment planning for occupational performance issues related to strength, range of motion, endurance, and tissue integrity. One lecture and three lab hours per week. Credit: Two hours.

OT 5522. Occupational Performance and Adaptation: Adolescence and Young Adulthood Laboratory. Skill in performance of evaluation, intervention, and outcome measures for adolescent and young adult clients with acquired disorders interfering with occupational performance, including musculoskeletal, neurological, and general medical conditions as a result of illness or injury. One seminar and three lab hours per week. Credit: Two hours.

OT 5553. Occupational Participation and Adaptation: Adolescence and Young Adulthood. Conditions that impact occupational participation in adolescence and young adulthood including musculoskeletal, neurological, and general medical . Occupational therapy theory and evidence based evaluation, intervention, outcome measures and service delivery appropriate for this population. Three lecture hours per week. Credit: Three hours.

OT 5563. Occupational Participation in Middle to Late Adulthood. Conditions that impact adaptation and participation in occupations and roles for middle to older adults including disability, illness, chronic impairment. Theory and evidence-based occupational therapy evaluation, intervention, outcome measures and service delivery appropriate for this population. Three lecture hours per week. Credit: Three hours.

OT 5573. Occupational Participation in Infancy and Childhood. Conditions that impact occupational participation for infants and children including medical, educational, and psychosocial problems of developmental, or acquired origin. Theory and evidence-based occupational therapy evaluation, intervention, outcome measures and service delivery appropriate for this population. Three lecture hours per week. Credit: Three hours.

OT 5722. Occupational Performance and Adaptation in Middle to Late Adulthood Laboratory. Performance of evaluation, intervention, and outcome measures appropriate for middle and older adults with disorders interfering with occupational performance. Practice in selection, implementation, analysis, and grading of interventions appropriate to middle and older adults. One seminar and three lab hours per week. Credit: Two hours.

OT 5732. Assistive and Computer Technology Tools in Practice. Uses of assistive technology in everyday life, including environmental modifications for home and work. Practice in the use of powered mobility, environmental controls, driver rehabilitation and application of computer and assistive technology for specific populations. One lecture and three lab hours per week. Credit: Two hours.

OT 5753. Designing, Evaluating, and Managing Systems. Occupational therapy program design, principles of management and factors influencing current health care policy. Application of principles of management to service models and health care settings, health care teams, implementation of federal and state regulation, and reimbursement systems. Three lecture hours per week. Credit: Three hours.

OT 5811. Specialty Field Experience. One week elective placement in a specialty setting with adjunct, full-time, or clinical specialist faculty. May be related to special interest or to research project. May also be in a professional administrative setting as a national or state office. In special cases may be supervised by professionals in other disciplines. May be repeated for credit. Practicum experience: forty hours a week. Credit: One hour.

OT 5812. Issues in Knowledge Bases. Current issues in theoretical concepts of knowledge bases in occupational therapy. May be repeated for credit. Two lecture hours a week. Credit: Two hours.

OT 5822. Issues in Adaptation. Current issues in occupational adaptation in occupational therapy. May be repeated for credit. Two lecture hours a week. Credit: Two hours.

OT 5823. Professional Reasoning & Fieldwork: Adolescents & Young Adults. Placement in occupational therapy practice settings under the supervision of an occupational therapy practitioner. Application of selected evaluation and intervention procedures. Integration of knowledge about diagnoses and the adaptive problems experienced by individuals in daily occupations. Two seminar hours per week and thirty hours field experiences. Credit: Three hours.

OT 5832. Issues in Practice Tools. Current issues in use of tools in occupational therapy. May be repeated for credit. Two lecture hours a week. Credit: Two hours.

OT 5833. Professional Reasoning & Fieldwork: Mental Health & Community-Based Programs. Placement in community settings under supervision of a qualified professional or occupational therapy practitioner. Emphasis on psychosocial and behavioral health including prevention of mental illness. Explore group process as a tool for facilitating engagement in a variety of occupations in context. Two seminar hours per week and thirty hours field experiences. Credit: Three hours.

OT 5843. Professional Reasoning & Fieldwork: Middle and Later Adulthood. Placement under the supervision of an occupational therapy practitioner in community, long term care, and home health systems where middle and later adults are engaged in social and productive activities. Examination of diagnoses and their relationship to adaptive problems. Two seminar hours per week and thirty hours field experiences. Credit: Three hours.

OT 5852. Issues in Occupational Therapy Process. Current issues in occupational therapy processes. May be repeated for credit. Two lecture hours a week. Credit: Two hours.

OT 5853. Professional Reasoning & Fieldwork: Infancy and Childhood. Placement with occupational therapy practitioners in clinical and community settings for children. Analysis of children's occupational participation, performance and adaptation in various contexts. Two seminar hours per week and thirty hours field experiences. Credit: Three hours.

OT 5901. Special Topics. Intensive study of selected topics in occupational therapy. One lecture hour per week. Credit: One hour. May be repeated for credit.

OT 5903. Special Topics. Intensive study of selected topics in occupational therapy. Three lecture hours per week. Credit: Three hours. May be repeated for credit.

OT 5911. Individual Study. Advanced work in special fields of occupational therapy. Credit: One hour. May be repeated for credit.

OT 5913. Individual Study. Advanced work in special fields of occupational therapy. Credit: Three hours. May be repeated for credit.

OT 5916. Adaptation to Physical Challenges in Adult Years I. Six week practicum in health care setting where occupational therapy is provided for adult individuals experiencing physical challenges. Opportunities to evaluate needs then plan and implement programs and services. Prerequisites: Completion of didactic coursework and professional project. Practicum experience: forty hours a week. Credit: Six hours.

OT 5923. Anatomy and Function of the Upper Extremity. Examines the structural anatomy of the upper extremity, including the musculoskeletal, neurological, vascular and integumentary systems; and relates this through an understanding of biomechanical principles to its function in both normal and abnormal (disease or injury) conditions. Prerequisites: Licensed Occupational Therapist or Physical Therapist, instructor approval. Credit: Three hours. (Advanced Studies in UE Rehab certificate.)

OT 5926. Adaptation to Physical Challenges in Adult Years II. Six week practicum in a health care setting where occupational therapy is provided for adult individuals experiencing physical challenges. Evaluation of needs, delivery of service and exploration of management and administrative issues. Prerequisites: Completion of didactic coursework and professional paper. Practicum experience: forty hours a week. Credit: Six hours.

OT 5932. Rehabilitation Technology in Practice. Properties of materials, specific equipment and techniques used in occupational therapy with an emphasis on the upper extremity. Uses of rehabilitation technology in everyday life. Practice in the use of prosthetics, splinting, orthotics, pain management, and principles of physical agent modalities. One lecture and three lab hours per week. Credit: Two hours.

OT 5933. Problems and Injuries of Upper Extremity. Etiology, pathology, medical diagnosis, prognosis, medical and surgical treatment for problems, injuries and congenital anomalies of the upper extremity. Prerequisites: Licensed Occupational Therapist or Physical Therapist, instructor approval. Credit: Three hours. (Advanced Studies in UE Rehab certificate.)

OT 5936. Adaptation to Psychosocial Challenges Across the Life Span I. Six week practicum in a health care setting where occupational therapy is provided for individuals experiencing psychosocial challenges. Opportunities to evaluate needs then plan and implement programs and services. Prerequisites: Completion of didactic coursework and professional paper. Practicum experience: forty hours a week. Credit: Six hours.

OT 5943. Evaluation of the Upper Extremity. Comprehensive evaluation techniques of the upper quadrant for the purpose of determining an accurate therapy diagnosis and developing an effective treatment plan, including the evidentiary basis, validity, reliability, and limitations of the technique. Prerequisites: OT 5623 and OT 5633 or PT 5623 and 5633. Credit: Three hours. (Advanced Studies in UE Rehab certificate.)

OT 5946. Adaptation to Psychosocial Challenges Across the Life Span II. Six week practicum in a health care setting where occupational therapy is provided for individuals experiencing psychosocial challenges. Evaluation of needs, delivery of service and exploration of management and administrative issues. Prerequisites: Completion of didactic coursework and professional paper. Practicum experience: forty hours a week. Credit: Six hours.

OT 5953. Clinical Reasoning and Therapeutic Management in Upper Extremity Rehabilitation. An evidence-based approach to the therapeutic management of upper extremity problems, injuries and congenital anomalies; including problem-based case studies to develop clinical reasoning and suggested guidelines for management of specific categories of disorders. Prerequisites: OT 5623 and OT 5633 or PT 5623 and 5633. Credit: Three hours. (Advanced Studies in UE Rehab certificate.)

OT 5956. Adaptation to Physical or Psychosocial Challenges in Early Years I. Six week practicum in a health care setting where occupational therapy is provided for individuals experiencing either psychosocial or physical challenges and who are between the ages of birth and adolescence. Opportunities to evaluate needs then plan and implement programs and services. Prerequisites: Completion of didactic coursework and professional paper. Practicum experience: Forty hours a week. Credit: Six hours.

OT 5966. Adaptation to Physical or Psychosocial Challenges in Early Years II. Six week practicum in a health care setting where occupational therapy is provided for individuals experiencing either psychosocial or physical challenges and who are between the ages of birth and adolescence. Evaluation of needs, delivery of service and exploration of management and administrative issues. Prerequisites: Completion

of didactic coursework and professional paper. Practicum experience: Forty hours a week. Credit: Six hours.

OT 5976. Alternative Clinical Experience I. Six week practicum in a health care setting where occupational therapy is provided for individuals with specific needs and/or the service is delivered in a non-traditional health care environment. Opportunities to evaluate needs then plan and implement programs and services. Prerequisites: Completion of didactic coursework and professional paper. Practicum experience: Forty hours a week. Credit: Six hours.

OT 5986. Alternative Clinical Experience II. Six week practicum in a health care setting where occupational therapy is provided for individuals with specific needs and/or the service is delivered in a non-traditional health care environment. Evaluation of needs, delivery of service and exploration of management and administrative issues. Prerequisites: completion of didactic coursework and professional paper. Practicum experience: Forty hours a week. Credit: Six hours.

OT 5992. Professional Reasoning Capstone. Complex case studies for integration of skill, performance, and participation in the field of occupational therapy. Inventory and documentation of competencies in a final portfolio of academic preparation. Two seminar hours per week. Credit: Two hours.

OT 6223. Theory and Knowledge Development in Occupational Therapy. Current theories and relationship to practice. Examination of the evolution and significance of occupation, adaptation, and environment as seminal concepts in the profession's knowledge development. Application to clinical research. Three lecture hours a week. Credit: Three hours.

OT 6243. Learning Designs for Occupational Therapy Knowledge. Planning, conducting, and assessing outcomes for teaching programs, professional workshops, and research presentations specific to occupational therapy knowledge and skills.

OT 6253. Scholarly Writing in Occupational Therapy. Development of scholarly writing skills linked to effective research and dissemination competencies. Writing style, organization, logic, clarity of content and concise, cogent argument. Search techniques, reference management tools, and scholarly ethics. Three lecture hours a week. Credit: Three hours.

OT 6333. Occupation in Context. Occupational participation at the immediate, proximal, community and societal scales of environments explored within contexts. Application of ecological and occupational models to evaluation and intervention for case studies and research methods. Three lecture hours a week. Credit: Three hours.

OT 6343. Theory of Occupational Adaptation. Examination of the theory of occupational adaptation as a normative model of human growth and development and a system for design of occupation-based practice models based on the interaction between the person, the environment, and internal adaptation. Three lecture hours a week. Credit: Three hours.

OT 6353. Neuroscience Applications: Occupational Therapy and Adaptation. Neuroscience foundations of the concepts of occupation and adaptation. Emphasis on the current research related to the mechanisms of adaptation of the nervous system structures and functions as a result of engagement in occupation.

OT 6363. Statistical Analysis in Occupational Therapy. Examination of quantitative research methods including design, level of measurement, sampling and validity. Emphasis on computation and analysis of such statistics as applicable to contemporary research in occupational therapy. Three lecture hours a week. Credit: Three hours.

OT 6373. Grant Writing in Occupational Therapy. Development of knowledge and skills necessary to write a grant proposal. Consideration of a range of grants/contracts including private foundation, state contracts, and federal grants. Essential steps to build interdisciplinary partnerships. Three lecture hours a week. Credit: Three hours.

OT 6433. Teaching Practicum in Occupational Therapy. Planning, conducting, and evaluating a teaching program which may include an academic course in the undergraduate or professional master's curriculum or a continuing education workshop for occupational therapists or other health professionals. May be repeated for credit. Credit: Three hours.

OT 6553. Applied Research Design and Methods. Relationships between theory and research; strengths and weaknesses of alternative research designs and traditions for scholarly inquiry; qualitative and quantitative research methods; program evaluation. Three lecture hours a week. Credit: Three hours.

OT 6563. Programmatic Research Planning. Participation in existing work of the student's supervising professor which illustrates sequential development of a line of research and which may lead to development of a dissertation topic for the student. May be repeated for credit in lieu of OT 5993 or OT 5973 for students entering the program with a master's degree for which a thesis or professional project was not required. May be repeated for credit. Credit: Three hours.

OT 6623. Instrumentation in Occupational Therapy. Current theories and principles of measurement. Relationship of measurement to practice, education, and research. Application of OT knowledge/expertise in development or revision of instruments used across practice contexts. Three lecture hours per week. Credit: Three hours.

OT 6643. Advanced Qualitative Methods in Occupational Therapy. Methods of data collection and interpretation including participant observation, qualitative interviews, focus groups, and trustworthiness techniques; emphasis on practical application to research questions and implementation of a research study. Three lecture hours a week. Credit: Three hours.

OT 6823. Current Issues and Trends In Occupational Therapy. Influences of changes in the health care delivery system on practice and education in occupational therapy. Analyses of issues and trends in occupational therapy and subsequent approaches taken by the profession to adapt. Role of the occupational therapist as change agent and consultant. Three seminar hours per week. Credit Three hours.

OT 6903. Special Topics. Selected current topics relevant to occupational therapy. May be repeated for credit. Three seminar hours per week. Credit: Three hours.

OT 6911. Independent Study. Credit: One hour.

OT 6913. Independent Study. Credit: Three hours.

OT 6983. Dissertation. Prerequisite: successful completion of qualifying exam. May be repeated for credit. Credit: Three hours.

OT 6993. Dissertation. Prerequisite: successful defense of dissertation proposal. May be repeated for credit. Credit: Three hours.

School of Physical Therapy

Director: Sharon Olson (Houston), Professor

Associate Directors: Peggy Gleeson (Houston), Professor

Ann Medley (Dallas), Associate Professor

Location: HDB 202

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Faculty: Professors W. Bartlett, P. Gleeson, V. Lovelace-Chandler, S. Olson, L. Petterborg, T. Roddey, M. Thompson, E. Trudelle-Jackson, S. Wang; Associate Professors C. Costello, C. Kelley, S. Lin, K. Luedtke-Hoffmann, A. Medley, K. Mitchell; Assistant Professors E. Arguello, L. Csiza, H. Tapley; Associate Clinical Professor R. Patel; Assistant Clinical Professors D. Anderle, C. Szot.

Graduate Degrees Offered

D.P. T. in Physical Therapy-Professional (to prepare for entry into the profession of physical therapy)

D.P. T. in Physical Therapy-Transitional

Ph.D. in Physical Therapy

Graduate Certificates Offered

Post-baccalaureate Certificate in Advanced Geriatric Physical Therapy

Post-baccalaureate Certificate of Advanced Studies in Women's Health Physical Therapy

Post-baccalaureate Certificate in Orthopedic Manual Therapy

Post-baccalaureate Certificate in Physical Therapy Academic Administration and Leadership

The School of Physical Therapy offers coursework leading to three separate graduate degrees. The professional Doctor of Physical Therapy degree is designed for students who wish to enter the professional field of physical therapy and who hold baccalaureate degrees in other areas. The transitional Doctor of Physical Therapy degree is offered for students who are practicing physical therapists wishing to focus on specific areas for in-depth study. Finally, the Doctor of Philosophy degree is offered to encourage individuals with a professional degree in physical therapy to prepare for future education or research careers.

The Doctor of Physical Therapy degree curriculum for students who wish to enter the field of physical therapy and who hold baccalaureate degrees in other areas is accredited by the Commission on Accreditation in Physical Therapy Education.

This program requires a minimum of 33 months of study and provides the basic preparation required for national licensure examination. The program begins each fall semester at Texas Woman's University's Houston Institute for Health Sciences, T. Boone Pickens Institute of Health Sciences and at the Dallas Center.

The school also offers coursework toward a transitional Doctor of Physical Therapy degree to physical therapists. The program is offered at both the Houston and Dallas Centers. Courses are offered in weekend and distance learning formats.

The Doctor of Philosophy degree in physical therapy at Texas Woman's University produces graduates who can become leaders in the field of physical therapy and who are well-prepared to pursue careers in education and research in physical therapy. The curriculum for the Ph.D. provides an environment in which the student analyzes available scientific literature and methodology relevant to solving clinical problems and information in order to conduct productive research. Objectives of the Ph.D. program are: 1) to increase the professional knowledge and the skills necessary for physical therapists; 2) to give breadth and depth to the therapist's education and research through further study in related and interdisciplinary fields; 3) to synthesize the many areas of knowledge with the student's ability to conduct research, solve problems, set goals, plan programs, evaluate, and make decisions pertinent to the area of physical therapy. The Ph.D. program is offered at both the Houston and Dallas Centers.

Advanced Practice – Graduate Certificates

Graduate Certificates are available in four areas of practice: Advanced Geriatric Physical Therapy, PT Academic Administration/Leadership, Women's Health Physical Therapy, and Orthopedic Manual Therapy. The certificates consist of 12 graduate credit hours which can be included as part of the post-professional Doctor of Philosophy degree upon admission as a degree-seeking student.

Admission Requirements

Please see the admission section at the front of this catalog. In addition to these general requirements, the School of Physical Therapy requires the following. (Visit www.twu.edu/physical-therapy/ for recent updates.)

Professional Doctor of Physical Therapy Degree—an entry-level degree for students who already have a Bachelor of Science or equivalent degree in another field and who are seeking to become physical therapists.

Students with a baccalaureate degree in any major must complete the following prerequisites before registering in the graduate division. They must also meet all requirements for admission to the Graduate School and be accepted by the PT Admissions Committee. A minimum of 3.0 GPA from the last 60 hours is required for admission.

Prerequisites:

1. Two semesters of biology or zoology with laboratory (courses not accepted as meeting these prerequisites are anatomy, physiology, kinesiology, botany, ecology, and biology for non-science majors).
2. Two semesters of chemistry with laboratory (Chemistry for non-science majors does not meet this prerequisite).
3. Two semesters of basic physics with laboratory (Physics for non-science majors does not meet this prerequisite).
4. Two semesters of college mathematics equal to college algebra and trigonometry or one semester of pre-calculus or calculus.
5. Two semesters of psychology (excluding statistics).
6. One semester of statistics.
7. One semester of general physiology (preferably human) with lab (preferably human); or upper level two semesters of anatomy and physiology with labs; or one semester of anatomy and physiology plus one semester of exercise physiology with labs.
8. Competency in medical terminology.
9. Current certificates in CPR and AED from the American Heart Association.
10. Competitive scores on the verbal, quantitative, and writing tests of the Graduate Record Examination.
11. One semester of human or vertebrate anatomy is recommended.

The student may be in the process of completing prerequisites when he or she applies. After acceptance, in order to enroll, the student must have successfully completed all outstanding prerequisites (courses yet to complete) with grades of 'A' or 'B' ('C' grades may be reviewed by the admissions committee). Prior to enrolling, students must have had immunizations as required by the state of Texas, including Hepatitis B doses. Admission to the physical therapy program is competitive and separate from admission to the Graduate School. A limited number of students can be accepted due to limited availability of clinical facilities, space, and faculty.

Please note that entry to the profession in all states requires licensure. Many states have different provisions for licensure, so applicants must determine if they meet these requirements. It is the responsibility of the applicants to insure that they meet requirements for application for licensure in Texas. Testing for drugs and a criminal background check are required during the first semester of the program. If students are unable to be cleared on these requirements, then they may not be eligible to continue in the program.

Entering Undergraduate Students at TWU

Undergraduate students who major in biology, kinesiology, health studies, and psychology may select a degree plan in which they take required major coursework and required prerequisites for an early application to the D.P.T. program in physical therapy. These students may be able to apply to the graduate program during

their junior year and, if accepted, could take coursework applicable to the graduate degree during their senior year. Students at TWU may also earn bachelor's degrees in other areas prior to application to the graduate program but may not be able to take advantage of early application. All students who wish to apply to the D.P.T. program must have completed the same prerequisites (see above).

Application Procedure

Professional Doctor of Physical Therapy Degree

Application review begins in September and the final deadline for receipt of materials is November 1st. Applicants must complete the Texas Common Application online and pay the relevant application fee. In addition, they must submit directly to the School of Physical Therapy official transcripts, official GRE scores, and the following items:

- Cover sheet listing required materials (available online).
- Letter of interest in physical therapy, including an evaluation of your strengths and weaknesses.
- List of prerequisite courses in which you are currently enrolled (or for which you plan to enroll) for fall, spring and/or summer.
- Written request for campus preference; if requesting consideration from both campuses, first and second choices must be stated.
- A total of three (3) recommendation forms in sealed envelopes (our form, found on our website): two recommendation forms filled out by two (2) licensed physical therapists from two different facilities in the U.S. and for whom you have worked or volunteered for a minimum of 20 hours; and one recommendation form from a professor or employer, not necessarily from the physical therapy field, but you may not use a person from a facility that has already been used for other recommendations.
- Resume containing data on personal, educational, employment, service and exposure to physical therapy or health care environment.
- After you have completed prerequisites and/or baccalaureate degree, have an official transcript sent to the School of Physical Therapy. If you take prerequisites in the spring and/or summer semester, final program enrollment status may not be possible until completion of the outstanding courses with grades of 'A' or 'B' ('C' grades may be reviewed) and transcripts have been received.

All coursework from a foreign university must be evaluated by TWU's International Education Office to establish U.S. equivalencies. International students are required to submit TOEFL and TSE scores and may be required to come for an interview prior to notification of final status.

NOTE: It is advantageous to apply as early as possible in order for you to receive notification if all materials have been received.

Transitional Doctor of Physical Therapy Degree – for students who already have entry-level preparation as a physical therapist.

Students who are practicing clinicians may apply at any time during the year. In addition to the general university requirements these students must present the following:

- Proof of graduation from an approved entry-level physical therapy program.
- A license to practice physical therapy in the United States.
- Bachelor's or Master's degree or educational equivalent.
- One letter of recommendation, preferably one from a current supervisor or employer.
- A resume/curriculum vitae.
- A one-page, typed personal statement describing professional goals.
- One year of full-time physical therapy experience.
- All coursework from a foreign university must be evaluated by TWU's International Education Office to establish U.S. equivalencies.

Doctor of Philosophy Degree

Students interested in the Ph.D. program may apply at any time. In addition to the general requirements, the School of Physical Therapy requires the following for admission to the doctoral program:

- Proof of graduation from an approved entry-level physical therapy program.
- A license to practice physical therapy in the United States or a minimum of 24 months of full time clinical practice (beyond that required for entry-level education) within the last 3 years, is preferred.
- A basic course in statistics within the last 10 years.
- A master's degree. A master's degree in physical therapy is not required; the degree may be in a related area.
- A minimum GPA of 3.0 on a 4.0 system.
- Two letters of recommendation, preferably including the latest employer and/or last school attended.
- A written statement indicating the current focus of professional and research interests including an evaluation of personal strengths and weaknesses.
- A resume/curriculum vitae.
- An interview is required. An interview by telephone or with a designated out-of-state interviewer may be arranged if circumstances preclude an on-site interview.
- International students must also submit a minimum acceptable score for the TOEFL tests and meet all Graduate School requirements for international applicants (please refer to the TWU International Education website for requirements and exemptions): www.twu.edu/admissions/toefl-requirements-exemptions.asp
- All coursework from a foreign university must be evaluated by TWU's International Education Office to establish U.S. equivalencies.

General Requirements for Entry-Level Doctor of Physical Therapy Degree

(For students preparing for entry into physical therapy)

Total Hours Required: 98 semester credit hours.

Special Requirements: Health and liability insurance are required each semester the student is enrolled. Clinical internships are required which necessitate additional expenses for the student. Students must abide by additional policies involving clinical internships. A grade point average of 3.0 must be maintained. Students must successfully complete one semester's coursework before taking coursework in the next semester. Courses may be repeated only with permission of the Graduate Faculty, Associate Director, and Director of the School of Physical Therapy.

Final Examination: Defense of the professional project which may be repeated only upon successful appeal to the Graduate Faculty of the School of Physical Therapy.

Policies: General policies, procedures, and appeal processes are established by the School and distributed to students upon entry into the program.

General Requirements for Transitional Doctor of Physical Therapy Degree

(For students who are already physical therapists)

Total Hours Required: at least 24

Core: 15-16 hours

Electives: 9-15 hours

Final Examination: Defense of professional project, which may be repeated only upon successful appeal to the Graduate Faculty of the School of Physical Therapy.

General Requirements for Ph.D. Degree

Total Hours Required: A minimum of 60 credit hours beyond the master's degree, including six hours for dissertation.

Core: 25 hours, including 3 hours of practicum.

Research Tools: All doctoral candidates are required to complete two research tools.

Tool 1: Advanced Statistics

A minimum of two advanced statistics courses (6 credit hours total) are required with content equivalency to courses at Texas Woman's University as determined by the student's advisory committee.

Tool 2: Computer Science

The student must take the following two courses or their equivalent as determined by the student's advisory committee.

- PT 6213. Computer Applications in Physical Therapy Research
- PT 6083. Advanced Instrumentation in Physical Therapy or a course in qualitative research

Other Coursework: A minimum of 12 to 23 credit hours based on individual student needs, consisting of concentration area courses, individual studies, field research, supervised teaching, seminars, and/or practica.

Residency Requirement: It is expected that students complete two semesters of residency, defined as a minimum load of six credit hours for each of the two semesters.

Qualifying Examination: A comprehensive examination will be developed and administered by the student's advisory committee in the year following completion of research tools and the majority of core courses. The examination is composed of the following two parts individualized for each student: 1) a written component in the student's area of research interests and 2) an oral examination taken within one month after notification that the written examination has been passed. The examination committee will provide a consensus pass/fail grade for each student for each examination. The student's advisory committee will participate in the oral examination, and the questions may deal with the areas of research specialization, research design, and statistics. A student will be allowed two attempts to pass each of the examinations. The second attempt may not be made sooner than three months after the first attempt.

A student not able to pass an examination in two attempts will not be allowed to continue in the program.

Final Examination: Oral examination is open to all faculty and the public, followed by a closed session with the committee. The oral examination will be initially limited to the content of the dissertation, but may include any topic suggested by the candidate's answer. May be repeated only once.

Minors Offered to Students from Other Departments

A minor is available to licensed physical therapists majoring in other departments.

Courses of Instruction in Physical Therapy

Entry-Level

PT 6001. Critical Inquiry in Physical Therapy I. Application of the scientific method to research questions in physical therapy. Includes planning of research projects aimed at making contributions to evidence-based physical therapy practice. One contact hour a week. Credit: One hour.

PT 6002. Primary Care in Physical Therapy. Overview of the primary care model of medicine in the context of physical therapy practice; includes medical screening and interdisciplinary collaboration. Two lecture hours a week. Credit: Two hours.

PT 6003. Examination, Evaluation, and Outcomes. Practical application of the evaluation strategies associated with functional assessment in physical therapy; emphasis on evidence-based functional assessment, principles, techniques, and related impairment measures. Two lecture hours and three laboratory hours a week. Credit: Three hours.

PT 6011. Critical Inquiry in Physical Therapy II. Application of the scientific method to research in physical therapy. Collaboration with faculty advisors to implement projects proposed in Critical Inquiry I. Prerequisite: PT 6001. One contact hour a week. Credit: One hour.

PT 6014. Clinical Management in Internal Medicine. Gross and histological reactions of tissue, organs, and systems to injury or disease; correlation of pathology with clinical signs and symptoms; medical management of disease processes, genetic conditions, and injuries commonly seen by physical therapists with emphasis on internal medicine. Four lecture hours a week. Credit: Four hours.

PT 6015. Human Gross Anatomy. Study of the structure and function of the human body; introduction to surface anatomy, radiology, embryology, and histology through regional dissection of the body. Three lecture hours and six laboratory hours a week. Credit: Five hours.

PT 6021. Clinical Inquiry in Physical Therapy III. Application of the scientific method to research in physical therapy. Evaluation, summary, and presentation of project results in a public forum. Prerequisite: PT 6011. One contact hour a week. Credit: One hour.

PT 6024. Clinical Neuroscience. Organization and physiological function of the human nervous system with emphasis on topics relevant to the practice of physical therapy. Three lecture hours and two laboratory hours a week. Credit: Four hours.

PT 6022. Clinical Management of the Musculoskeletal System. Pathology and medical management of disease processes, genetic conditions, and injuries commonly seen by physical therapists with emphasis on musculoskeletal disorders. Two lecture hours a week. Credit: Two hours.

PT 6032. Clinical Management of the Neuromuscular System. Pathology and medical management of disease processes, genetic conditions, and injuries commonly seen by physical therapists with emphasis on neuromuscular disorders. Two lecture hours a week. Credit: Two hours.

PT 6033. Research in Physical Therapy. Critical analysis of published research relevant to physical therapy; securing and evaluating evidence for clinical decision-making; research design and statistical analysis; preparation for participation in collaborative research. Three lecture hours a week. Credit: Three hours.

PT 6041. Introduction to Exercise Testing and Prescription in Physical Therapy. Basic physiological responses to activity or exercise and physiological adaptations in response to training; energy storage and utilization as well as exercise prescriptions for healthy individuals and clients with selected diseases Student participation in exercise testing and programs during lab sessions.

PT 6061. Basic Physical Therapy Skills. Application of physical therapy treatment procedures with primary emphasis on such basic patient care techniques as transfers, positioning, assisted exercise, and assisted gait. Two laboratory hours a week. Credit: One hour.

PT 6072. Developmental Concepts: Adolescence to Geriatrics. Changes associated with age in the neurosensory, neuromuscular, cardiovascular, pulmonary, integumentary, and musculoskeletal systems as related to physical therapy management. One lecture hour and two laboratory hours a week. Credit: Two hours.

PT 6073. Medical Kinesiology. Physical therapy analysis of biomechanical and kinesiological principles of human movement and function with emphasis on the relationships among movement, structure, and force. Two lecture hours and two laboratory hours a week. Credit: Three hours.

PT 6082. Professional Practice in Physical Therapy. Orientation to professional aspects of physical therapy, including communication, cultural competence, documentation, ethics, evidenced-based practice, legal issues, and effective teaching strategies. Two lecture hours a week. Credit: Two hours.

PT 6102. Practice Management Issues I. Application of practice management issues in the physical therapy setting: emphasis on communication, documentation, supervision, reimbursement, time management, and psychosocial aspects of patient care in preparation for first clinical affiliation. Two lecture hours a week. Credit: Two hours.

PT 6111. Practice Management Issues II. Overview of various influences within the health care environment, including payment systems, development of public policy and legislation, and the scope of physical therapy practice at the local, state, and federal levels. Prerequisite: PT 6102. One lecture hour a week. Credit: One hour.

PT 6121. Practice Management Issues III. Exploration of the leadership role of the physical therapist as a manager of clinical services. Prerequisite: PT 6111. One lecture hour a week. Credit: One hour.

PT 6122. Prostheses, Orthoses, and Advanced Gait. Pathological gait of patients with neuromuscular, musculoskeletal, and/or integumentary involvement. Includes prostheses, orthoses, changes in gait across the lifespan, energy costs, therapeutic interventions, and patient/family education. One lecture hour and two laboratory hours a week. Credit: Two hours.

PT 6131. Practice Management Issues IV. Overview of healthcare delivery and payment systems related to physical therapy practice. Includes governmental and legal parameters, and current issues facing the continuum of care. Prerequisite: PT 6121. One lecture hour a week. Credit: One hour.

PT 6132. Professional Development for the Physical Therapist. Exploration of issues related to maintaining and expanding professional competence in the broad context of physical therapy practice. Two lecture hours a week. Credit: Two hours.

PT 6141. Clinical Integration I. Integration of curricular content to date within the framework of a collaborative problem-based learning model; emphasis on clinical reasoning and problem solving. One lecture hour a week. Credit: One hour.

PT 6142. Health Promotion and Wellness I. Overview of health promotion, fitness, and wellness strategies for well individuals and those with functional limitations commonly seen in physical therapy practice; emphasis on attitudes towards health, illness, and disability and their effect on individual goals, motivations, and interpersonal relationships. Two lecture hours a week. Credit: Two hours.

PT 6151. Psychosocial Aspects of Rehabilitation. Psychosocial issues related to physical therapy; includes the roles of mental health professionals, advocates, and family; patient-therapist communication; sexuality and disability; and abuse. One lecture hour a week. Credit: One hour.

PT 6152. Health Promotion and Wellness II. Public health, social responsibility, and participation in physical therapy practice; emphasis on improving health outcomes in well and disabled populations. Prerequisite: PT 6142. One lecture hour and two laboratory hours a week. Credit: Two hours.

PT 6161. Therapeutic Exercise and Intervention III. Advanced soft tissue interventions and alternative, or complementary, exercise approaches to physical therapy patient care. Prerequisite: PT 6162. Two laboratory hours a week. Credit: One hour.

PT 6162. Therapeutic Exercise and Intervention II. Use of therapeutic exercise and other interventions for the treatment of impairments and functional limitations in patients who have musculoskeletal, neuromuscular, or integumentary system involvement. Prerequisite: PT 6173. One lecture hour and two laboratory hours a week. Credit: Two hours.

PT 6173. Therapeutic Exercise and Intervention I. Principles of therapeutic modalities and basic therapeutic exercise; emphasis on management of patients in the acute phase of recovery/healing from soft tissue injuries or surgery, including detection/prevention of post-operative complications and adverse effects of immobilization. Two lecture hours and two laboratory hours a week. Credit: Three hours.

PT 6302. Integumentary Physical Therapy. Integration of basic and clinical sciences in the physical therapy examination, differential diagnosis, and treatment of patients with pathologies, impairments, and disabilities involving the integumentary and vascular systems. One lecture hour and two laboratory hours a week. Credit: Two hours.

PT 6323. Neuromuscular Physical Therapy I. Principles of evaluation and physical therapy treatment of patients with neuromuscular complications associated with brain injury and cerebral vascular accident; emphasis on current theories of motor control and therapeutic interventions. Two lecture hours and three laboratory hours a week. Credit: Three hours.

PT 6343. Neuromuscular Physical Therapy II. Principles of evaluation and physical therapy treatment of patients with neuromusculoskeletal conditions including, but not limited to, spinal cord injury and vestibular disorders; emphasis on current treatment models. Prerequisite: PT 6323. Two lecture hours and two laboratory hours a week. Credit: Three hours.

PT 6353. Pediatric Physical Therapy. Normal motor, cognitive, and psychosocial development; neonatology; evaluation and treatment of children with developmental disorders and other chronic medical conditions; pediatric sports medicine; and legal and ethical considerations. Two lecture hours and two laboratory hours a week. Credit: Three hours.

PT 6363. Musculoskeletal Physical Therapy: Lower Quadrant. Principles of evaluation and physical therapy treatment of patients with musculoskeletal problems of the lumbar spine, pelvis, and lower extremities; emphasis on manual therapy strategies. Two lecture hours and three laboratory hours a week. Credit: Three hours.

PT 6373. Musculoskeletal Physical Therapy: Upper Quadrant. Evaluation and physical therapy management of patients with musculoskeletal disorders of the cervico-thoracic spine and upper extremity; emphasis on manual therapy and functional rehabilitation. Two lecture hours and three laboratory hours a week. Credit: Three hours.

PT 6383. Cardiopulmonary Physical Therapy. Physical therapy evaluation and management of patients with cardiovascular and/or pulmonary diseases. Emphasis on the integration of results from diagnostic tests and measures with physical findings in order to develop plans of care and implement appropriate intervention. Two lecture hours and two laboratory hours a week. Credit: Three hours.

PT 6731. Preliminary Clinical Experience. Supervised, part time, onsite exposure to the inpatient clinical environment. Emphasis on observation and reflection of characteristics of professional practice as demonstrated by various health care providers. Four practicum hours a week. Credit: One hour.

PT 6733. Clinical Experience I. First of three supervised full-time clinical experiences. Application of physical therapy knowledge, skills and behaviors appropriate to patient and practice management in the acute care setting. One lecture hour and sixteen practicum hours a week. Credit: Three hours.

PT 6802. Clinical Integration II. Clinical decision-making for complex patients with multi-system involvement; includes practice management issues such as accountability and outcomes assessment. Prerequisite: PT 6141. Two lecture hours a week. Credit: Two hours.

PT 6804. Clinical Experience II. Second of three supervised full-time clinical experiences; application of physical therapy knowledge, skills, and behaviors appropriate to patient and practice management in either the orthopedic or neuro-rehabilitation setting. Prerequisite: PT 6733. Eighteen to twenty practicum hours a week. Credit: Four hours.

PT 6814. Clinical Experience III. Third of three supervised full-time clinical experiences; application of physical therapy knowledge, skills, and behaviors appropriate to patient and practice management in either the orthopedic or neuro-rehabilitation setting. Prerequisite: PT 6804. Eighteen to twenty practicum hours a week. Credit: Four hours.

PT 6816. Clinical Internship. Directed clinical internship in selected area(s) of physical therapy practice culminating in effective clinical decision making for autonomous practice and professional development. Prerequisite: PT 6814. Thirty-two practicum hours a week. Credit: Six hours.

Post-professional Courses

Course enrollments limited to physical therapists except with special permission.

PT 5623. Anatomy and Function of the Upper Extremity. Examines the structural anatomy of the upper extremity, including the musculoskeletal, neurological, vascular, and integumentary systems; and relates this through an understanding of biomechanical principles to its function in both normal and abnormal (disease or injury) conditions. Credit: Three hours.

PT 5633. Problems and Injuries of Upper Extremity. Etiology, pathology, medical diagnosis, prognosis, medical and surgical treatment for problems, injuries and congenital anomalies of the upper extremity. Credit: Three hours.

PT 5643. Evaluation of the Upper Extremity. Comprehensive evaluation techniques of the upper quadrant for the purpose of determining an accurate therapy diagnosis and developing an effective treatment plan, including the evidentiary basis, validity, reliability, and limitations of the techniques. Credit: Three hours.

PT 5653. Clinical Reasoning and Therapeutic Management in Upper Extremity Rehabilitation. An evidence-based approach to the therapeutic management of upper extremity problems, injuries and congenital anomalies; including problem-based cases studies to develop clinical reasoning and suggested guidelines for management of specific categories of disorders. Credit: Three hours.

PT 6001. Application of the scientific method to research questions in physical therapy. Includes planning of research projects aimed at making contributions to evidence-based physical therapy practice. One hour a week. Credit: One hour.

PT 6003. Neural Basis of Motion. Anatomy and physiology of central and peripheral nervous systems with emphasis on regulatory mechanisms and the effect of abnormalities on function. Credit: Three hours.

PT 6013. Supervised Teaching in Physical Therapy. Supervised teaching for physical therapy students. Laboratory teaching under close supervision of the faculty. Weekly meetings with the instructor, individual consultation, and reports. Prerequisites: degree in physical therapy, permission of instructor. Credit: Three hours.

PT 6023. Research for Clinical Scientists in Physical Therapy. Research design and statistical analysis; critical evaluation of published research relevant to physical therapy; scientific writing; preparation for conducting clinical research. Prerequisite: PT 5233 or equivalent. Three lecture hours a week. Credit: Three hours.

PT 6083. Advanced Instrumentation in Physical Therapy. Emphasis on developing advanced knowledge of the theory and application of one of the following: biomechanical analysis, computer utilization for data acquisition, gait analysis, muscular strength testing or electromyography. Prerequisite: degree in physical therapy, permission of instructor. Credit: Three hours.

PT 6093. Pathophysiology of Therapeutic Exercise. An in-depth exploration of exercise physiology and pathophysiology related to the cardiovascular, respiratory, and musculoskeletal systems. Emphasis will be placed on utilizing this information as a basis for evaluating patients with selected pathologies commonly seen in physical therapy, and designing and implementing treatment programs. Prerequisite: degree in physical therapy or permission of instructor. Credit: Three hours.

PT 6101. Practicum in Physical Therapy. Supervised experience in a specialized area of interest such as administration, teaching, research, or advanced evaluation and treatment procedures. Prerequisites: degree in physical therapy, physical therapy licensure and permission of instructor. Credit: One hour. May be repeated for credit.

PT 6103. Advanced Practicum in Physical Therapy. Supervised experience in a specialized area of interest such as administration, teaching, research, or advanced evaluation and treatment procedures. Prerequisites: degree in physical therapy, physical therapy licensure, permission of instructor. Credit: Three hours.

PT 6113. Directed Practicum in Physical Therapy. Directed practical experience in a specialized area of physical therapy; content may include teaching, administration, research, or application of advanced clinical procedures. Prerequisites: Physical therapy licensure and proof of liability insurance. Credit: Three hours.

PT 6123. Physical Therapy Patient/Client Management. Knowledge and skills to enhance the clinical decision-making process, including screening, physical therapy examination, evaluation of findings, diagnosis, prognosis, plan of care development, intervention and outcome measurement in clients with disorders managed by physical therapists. Three lecture hours a week. Credit: Three hours.

PT 6133. Physical Therapy Patient/Client Management II. Knowledge and skills to enhance clinical decision-making, including screening, examination, evaluation, diagnosis, prognosis, plan of care, intervention and outcomes in clients with neuromuscular and integumentary disorders. Three lecture hours a week. Credit: Three hours.

PT 6143. Leadership and Management in Physical Therapy. Principles of leadership and management for physical therapy practice, including ethical behaviors and beliefs; change management; motivating, coaching and mentoring; life-long learning; business and strategic planning; financial management; personnel recruitment and retention; liability issues and risk management; effective marketing and consulting skills. Three lecture hours a week. Credit: Three hours.

PT 6153. Advanced Diagnostic Imaging for the Physical Therapist. Principles and production of diagnostic imaging; terminology and psychometric properties of imaging tools; integration of diagnostic imaging information into physical therapy examination, evaluation, and intervention. Three lecture hours a week. Credit: Three hours.

PT 6193. Quantitative Evaluation. Assessment of the uses, advantages, validity, reliability, and sources of error of evaluation procedures in physical therapy. Prerequisites: degree in physical therapy or a closely related area and permission of the instructor. Credit: Three hours.

PT 6203. Orthopedic Evaluation & Treatment of the Geriatric Client. The study of orthopedic assessment and treatment applied to the geriatric client. Includes background information on aging theories and age-related changes but focus is on evaluation, PT differential diagnosis, and rehabilitation of orthopedic problems common to the elderly. Credit: Three hours.

PT 6213. Computer Applications in Physical Therapy Research. Application of research design and computer systems to problems in physical therapy research. Emphasis on computational skills and computer approaches to evaluation. Prerequisites: degree in physical therapy, permission of instructor. Credit: Three hours.

PT 6223. Aspects of Pharmacology and Nutrition in Physical Therapy. Role and relationship of nutrition and drug therapy in the treatment of specific populations treated by physical therapists; medical indications and potential effects of drugs on physical therapy treatments; nutritional principles related to exercise. Credit: Three hours.

PT 6253. Functional Physical Therapy Anatomy and Biomechanics: Upper Quadrant. Advanced dissection course in human gross anatomy with an emphasis on the origin of function. Ligaments, bones, joints, and muscles are dissected and their interrelationships emphasized, especially with the upper extremities. Clinical dysfunctions in physical therapy are studied in comparison to the norm. Two lecture, two laboratory hours per week. Prerequisites: degree in physical therapy, permission of instructor. Credit: Three hours.

PT 6263. Illness Prevention & Health Promotion. Recognize public health issues across the lifespan and resources relevant to physical therapist practice including basic nutrition; designing plans for preventing illness and promoting health and wellness for selected populations. Three lecture hours a week. Credit: Three hours.

PT 6273. Functional Physical Therapy Anatomy and Biomechanics: Lower Quadrant. Advanced dissection course in human gross anatomy with an emphasis on the origin of function. Ligaments, bones, joints, and muscles are dissected and their interrelationships emphasized, especially with the lower extremities. Clinical dysfunctions in physical therapy are studied in comparison to the norm. Prerequisites: degree in physical therapy, permission of instructor. Two lecture, three laboratory hours per week. Credit: Three hours.

PT 6293. Pathokinesiology. Study of normal joint structure and effect of pathology on kinematics. Application of measurement, evaluation tools, and mobilization of joints. Prerequisites: degree in physical therapy, permission of instructor. Credit: Three hours.

PT 6303. Field Research in Physical Therapy. Designs, data collection techniques, and analyses for field research in physical therapy. Critical application of surveys, observational studies, case studies, and single case designs to clinical field problems in physical therapy. Emphasis is on the development of analytical skills requisite for field research in physical therapy. Prerequisites: degree in physical therapy, permission of instructor. Credit: Three hours.

PT 6333. Health Care Delivery Systems. Overview of health delivery systems in the U.S. and Texas. Emphasis on government and private sector involvement in health services to older adults with applications for the physical therapist. Credit: Three hours.

PT 6403. Neuromuscular Integration and Applications. A comprehensive foundation for the management of the person with a neuromuscular pathology for the practicing physical therapist using the older person post-stroke as a model. Emphasis on securing and applying relevant in-depth information. Three lecture hours a week. Credit: Three hours.

PT 6413. Cardiopulmonary Integration and Application. A comprehensive foundation for the management of persons with cardiovascular and/or pulmonary pathology for the practicing physical therapist using the older person as a model. Emphasis on securing and applying relevant in-depth information. Three lecture hours a week. Credit: Three hours.

PT 6423. Pediatric Neuroscience in Physical Therapy. Review of embryology and exploration of the conditions under which both typical and atypical development occur. Emphasis on understanding the relationship between structure and function of the nervous system as it relates to children with disabilities. Three lecture hours a week. Credit: Three hours.

PT 6433. Motor Behavior in Pediatrics. Emphasis on current theories of motor learning and motor control as they apply to physical therapy evaluation and therapeutic management of children with disabilities. Three lecture hours a week. Credit: Three hours.

PT 6443. Pediatric Outcome Measures in Physical Therapy. Study of standardized tests commonly used in pediatric rehabilitation. Emphasis on identifying objective tests that may be used to measure therapeutic outcomes. Includes practice sessions that involve clinical problem solving. Three lecture hours a week. Credit: Three hours.

PT 6453. Principles of Geriatric Physical Therapy II. Aging theories and age-related changes; chronic problems associated with aging, critical examination of anti-aging research, and effect of physical aging on other dimensions of life; applications for therapist practice including health promotion and wellness. Three lecture hours a week. Credit: Three hours.

PT 6463. Women's Health: Midlife & Beyond. Physical therapists' roles in meeting the health care needs of the woman in midlife and beyond. Problems common to this phase of life, evidence-based practice related to possible interventions, and interpersonal skills required when talking about sensitive topics during examination and interventions. Three lecture hours a week. Credit: Three hours.

PT 6473. Women's Health: Menopause. The practice of women's health physical therapy with the mature woman including health promotion and examination and interventions for urogenital/pelvic floor dysfunction, osteoporosis, and lymphoedema. Two lecture hours and two laboratory hours a week. Credit: Three hours.

PT 6483. Principles of Geriatric Physical Therapy I. Principles of gerontology with emphasis on psychological processes and social aspects of aging with implications for physical therapists. Prerequisites: Permission of instructor. Credit: Three hours.

PT 6501. Research Dissemination. Includes contemporary research problems in physical therapy. Designed primarily for doctoral students. Emphasis on scholarly writing. Topics will be selected by instructor and students. Prerequisite: permission of instructor. Credit: One hour.

PT 6503. Introduction to Grantsmanship in Physical Therapy. Overview of concepts in constructive research leading to competitive grantsmanship for physical therapists. May include invited presentation of funded projects, exemplary research proposals, and grant management. Identification of funding sources and development of a grant proposal.

PT 6511. University Academic Issues. Seminar designed primarily for doctoral students. Topics include university structure and governance, role of faculty, and issues specifically addressing physical therapy education. Prerequisite: Permission of instructor. Credit: One hour.

PT 6513. Topics in Evidence-Based Practice. Search and appraisal of evidence for tests and measures, interventions, diagnosis, and prognosis used in advanced physical therapist practice; clinical decisions based on the evidence. Three lecture hours a week. Credit: Three hours.

PT 6523. Teaching & Learning in Physical Therapy. Preparation for careers in physical therapy higher education; concepts and techniques of effective teaching and enhanced learning, such as theories of learning, teaching styles, methods of instruction, syllabus development, and evaluation/assessment processes. Three lecture hours a week. Credit: Three hours.

PT 6533. Academic Issues in Physical Therapist Education. Organizational and functional aspects of graduate professional educational program. Includes university structure and governance, models of scholarship, faculty roles, faculty issues (tenure, promotion, academic freedom, development), student issues (recruitment, retention, advising/mentoring), and clinical education.

PT 6543. Academic Leadership in Physical Therapist Education. Theoretical, historical, and philosophical underpinnings of leadership in academic institutions, professional associations, governance entities, and related communities. Includes theories of leadership and professional development; interpersonal informational, and decisional roles.

PT 6553. Academic Administration in Physical Therapist Education. Historical and current responsibilities, issues, and skills; educational leadership; faculty recruitment, retention, and development; program development, assessment, and revision; evaluative criteria for accreditation; and promotion of faculty instruction, scholarship, and service.

PT 6663. Advanced Differential Diagnosis in Orthopedic Physical Therapy. Principles of differential diagnosis in orthopedic manual therapy; development of critical clinical thinking in orthopedics, basic medical screening, rational differential diagnosis and selection of manual and mechanical interventions of the musculoskeletal system. Three lecture hours a week. Credit: Three hours.

PT 6673. Intermediate Evaluation and Mobilization: Lower Quadrant. Interpretation of basic science knowledge and development of clinical skills needed to complete a differential evaluation and proceed to effective treatment of spinal dysfunction. Prerequisite: PT 5273 or permission of instructor. Two lecture, two laboratory hours a week. Credit: Three hours.

PT 6683. Intermediate Evaluation and Mobilization: Upper Quadrant. Interpretation of basic science knowledge and development of clinical skills needed to complete a differential evaluation and proceed to effective treatment of craniofacial region dysfunction, and cervical and thoracic spine dysfunction. Prerequisite: PT 5263 or permission of instructor. Two lecture, two laboratory hours a week. Credit: Three hours.

PT 6723. Analysis of Current Issues and Problems in Physical Therapy.

A critical review of the issues and problems confronting physical therapy and their interaction with the concepts of role, systems, problem-solving, decision making and change. Three lecture hours per week. Credit: Three hours.

PT 6823. Advanced Evaluation and Mobilization: Lower Quadrant.

Study of advanced biomechanical tests and treatments, including manipulation, applied to the lumbar spine, peripheral joints of the lower extremity, pelvis and sacroiliac joint. Emphasis on techniques that integrate joint function. Prerequisites: PT 5832, PT 5823 or permission of instructor. Credit: Three hours.

PT 6833. Advanced Evaluation and Mobilization: Upper Quadrant.

Study of advanced biomechanical tests and treatments, including manipulation, applied to the cervical and thoracic spine, peripheral joints of the upper extremity, and temporomandibular joint. Emphasis on techniques that integrate joint function. Prerequisites: PT 5832, PT 5833 or permission of instructor. Credit: Three hours.

PT 6901. Special Topics.

Concentrated study of a particular topic in physical therapy. Prerequisite: Permission of the instructor. Credit: One hour. May be repeated for credit when topic varies.

PT 6903. Special Topics.

Concentrated study of a particular topic in physical therapy. Prerequisite: Permission of the instructor. Credit: Three hours. May be repeated for credit when topic varies.

PT 6911. Independent Study.

Variable content. Credit: One hour. May be repeated for credit as topic varies.

PT 6913. Independent Study.

Variable content. Individual research or study relating to a problem of professional interest and significance. Credit: Three hours. May be repeated for credit as topic varies.

PT 6983. Dissertation.

May be repeated for credit. Credit: Three hours. Only three credits apply toward degree.

PT 6993. Dissertation.

May be repeated for credit. Credit: Three hours. Only three credits apply toward degree.

College of Nursing

Dean: Pat Holden-Huchton, Professor

Location: ASB 216, Denton

Phone: 940-898-2401

Fax: 940-898-2437

Website: www.twu.edu/nursing/

Denton: 940-898-2401

Interim Associate Dean, Denton: Donna Scott Tilley, Associate Professor

Dallas: 214-689-6510

Associate Dean, Dallas: Stephanie Woods, Associate Professor

Houston: 713-794-2100

Associate Dean, Houston: Karen Lyon, Professor

Denton: 940-898-2401

Associate Dean-Research and Clinical Scholarship: Gayle Roux, Associate Professor

*Faculty: **Denton:** Professor P. Holden-Huchton; Associate Professors E. Restrepo, G. Roux, D. Sauls, D. Tilley, V. Zeigler; Assistant Professors M. Benham-Hutchins, F. Liu; Associate Clinical Professor P. Jones; Assistant Clinical Professors M. Brogan, A. Thomson; Clinical Instructor R. Campbell.*

***Dallas:** Professors S. Chaney, H. Cho, P. Mancuso, S. Sheriff, D. Tapler, S. VanSell; Associate Professors C. Arnold, C. Bailey, G. Byrd, M. Tietze, S. Woods; Clinical Professor C. Oquin; Associate Clinical Professors C. Enright, L. Galatas, S. Lambert, B. McAlister, N. McMenemy, C. Wilson, J. Wilson; Assistant Professors J. Anderson, B. Gray, J. Hernandez, L. Kubin, D. Wegmann; Assistant Clinical Professors A. Johnson, S. Kessler, K. Kremer, K. Morris, N. Fried; Clinical Instructor D. Nolan.*

***Houston:** Professors S. Cesario, R. Krepper, R. Langford, K. Lyon, A. Malecha, J. McFarlane, E. Young; Clinical Professors P. Landrum, C. Stephenson; Associate Professors C. Ayers, B. Binder, R. DelloStritto, J. Foster, A. Koci, D. Montgomery, L. Symes, R. Toms; Associate Clinical Professors; F. Blair, T. Ho, C. Hueske, R. Solomon; Assistant Professors W. Freysteinson, O. Johnson, K. Pancheri; Assistant Clinical Professors M. Rhemann, R. Schultz, A. St. Germain.*

Graduate Degrees Offered

M.S. in Nursing, with nurse practitioner options in acute care, family health, adult health, women's health, and pediatrics; and options in nursing education, clinical nurse leader, or health systems management (minor in health care administration or business).

D.N.P., Doctor of Nursing Practice

Ph.D. in Nursing Science

The College of Nursing offers the Master of Science degree, the Doctor of Philosophy degree, and the Doctor of Nursing Practice degree. The Master of Science degree is offered at the Denton Campus, the Houston Center, and the Dallas Center. The Ph.D. is offered at the Denton Campus and the Houston Center, and the D.N.P. is offered at the Dallas Center as a hybrid distance education option. A variety of clinical facilities as well as libraries are available. The centers are described in the earlier pages of this catalog.

Part-time study is available for the master's degree as well as for the doctoral degrees. The Master of Science degree and Doctor of Nursing Practice program are accredited by the Commission on Collegiate Nursing Education.

The master's degree program in nursing prepares professional nurses for leadership roles in the management and delivery of health care, nursing education, and the promotion of health. Graduate study in nursing requires the acquisition and systematic application of knowledge and skills in nursing practice, nursing research, and nursing role. Critical thinking skills are enhanced through the study of nursing theory and research.

The doctoral programs are designed for nurses who have developed specialized expertise in health care. The primary goal of the doctoral programs is to develop leaders and scholars who will make a significant contribution to the nursing profession in the discovery, integration, application, and dissemination of knowledge.

Influences on women's health is the central theme of the research program in the College of Nursing. Doctoral faculty are involved in both funded and unfunded research projects. Active participation by students in these projects is encouraged and supported. Such projects offer opportunities for mentorship into a research career.

Graduate Certificates Offered

Post-master's Certification in:

Clinical Nurse Leader

Nursing Education

Nursing/Health Systems Management

Nurse Practitioner

Admission Requirements – Master’s Degree

All applicants must meet the general requirements for admission to the Graduate School.

In addition to these general requirements, the College of Nursing requires the following for unconditional admission to the master’s program.

1. A current unencumbered license to practice professional nursing in the USA.
2. A basic statistics course.
3. A baccalaureate degree with an upper division major in nursing from a program accredited by a nationally recognized accrediting body.
4. A minimum grade point average (GPA) of 3.0 (‘B’ average) in the last 60 hours of course work toward the undergraduate nursing degree and a minimum GPA of 3.0 (‘B’ average) in all prior graduate course work.
5. Graduate Record Examination (GRE) verbal and quantitative scores or Miller Analogies Test (MAT) score.

Applicants who do not meet these criteria but have a minimum GPA of 2.5 in the last 60 hours of course work toward the undergraduate nursing degree may be considered for provisional admission on an individual basis. Factors that will be considered in the admission decision are: Graduate Record Examination (GRE) verbal and quantitative scores or Miller Analogies Test (MAT) score, GPA on any prior graduate course work, scholarly activities, professional leadership, and work history.

For applicants who have a baccalaureate degree in nursing and a master’s degree in another field, the graduate grade point average will be used in making the admission decision. GRE or MAT scores are not required for students with a master’s in another field.

Individuals who have a master’s degree in nursing may seek admission to a post-master’s certification program in one of four areas: nurse practitioner, clinical nurse leader, nursing/health systems management, or nursing education. GRE or MAT scores are not required for students with a master’s in nursing.

Applicants who wish to transfer from another nursing program must provide evidence of eligibility to continue in the previous nursing program. The maximum number of transfer credits that will be considered is six or nine hours depending on program track. A grade of ‘B’ or higher in each course is necessary for credit hours to be considered for transfer.

Master’s program applicants must submit their program application and all transcripts and GRE or MAT scores to the Office of Admissions by one of the following dates:

Semester for Admission	Submit application no later than
Fall	May 1
Spring	September 15

Applicants may take, with permission, only 3 credit hours of graduate courses before admission status is determined.

Prior to enrollment in clinical nursing courses the student must show proof of:

1. professional liability insurance purchased through a TWU student professional liability group policy.
2. licensure to practice professional nursing in Texas. unencumbered.
3. current required immunizations.
4. CPR for health care providers.
5. criminal background check and drug screening.

Prior to enrollment in the first clinical nursing course, the student must have completed the equivalent of one year of full-time clinical experience as a registered nurse. Students may be required to meet additional clinical agency requirements such as drug testing, criminal background screening, and evidence of health insurance.

All nursing education majors are required to have a current unencumbered RN license in the state of residence.

Readmission – Master’s Program

An individual who has been unsuccessful in meeting the progression requirements, after being admitted to the master’s 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 master’s program after a period of six years.

Admission Requirements – Doctoral Degree Ph.D. (Nursing Science)

All applicants must meet the general requirements for admission to the Graduate School. In addition to these general requirements, the College of Nursing requires the following for admission to the Ph.D. program:

1. A course in statistics.
2. A course in research at the graduate level.
3. A course in nursing theory at the graduate level.
4. A master’s degree with a major in nursing from a program accredited by a nationally recognized accrediting body (preferred).
5. Two letters of recommendation.
6. A letter discussing research interest area and professional goals.
7. A current license to practice professional nursing in the U.S.A.
8. A curriculum vita or resume.
9. GRE or MAT scores.

In order to be considered for admission, please use the following application deadlines. These are the deadlines for all materials to be submitted including the application, all transcripts, reference letters, CV, and letter discussing research interest area and professional goals.

Semester for Admission	Submit application no later than
Fall	February 1 (Denton) May 1 (Houston)
Spring	September 15 (Houston)

Admission to the Ph.D. program may be awarded on an unconditional or provisional basis.

1. A minimum grade point average (GPA) of 3.5 on all prior graduate level course work, or
2. A preferred score of 460 on the Graduate Record Examination (GRE) Verbal and 500 on the GRE Quantitative prior to 8/1/11; A preferred score of 150 on the GRE Verbal, 150 on the GRE Quantitative, and 4.0 on the GRE Analytic after 8/1/11; or
3. A preferred score of 50 on the Miller Analogies Test (MAT) prior to 10/1/04. Preferred score of 400 after 10/1/04.

Applicants who do not meet the unconditional criteria, but who have a minimum GPA of 3.0 on prior graduate level course work may be considered for provisional admission on an individual basis. Factors that will be considered in the admission decision are GPA on graduate level course work, GRE verbal and quantitative scores or MAT score, scholarly activities, professional leadership, and work history.

Admission Requirements – Doctoral Degree – D.N.P. (Doctor of Nursing Practice)

All applicants must meet the general requirements for admission to the Graduate School. In addition to those general requirements, the College of Nursing requires the following for admission to the D.N.P. program:

1. Master's degree with a major in nursing from a program accredited by a nationally recognized accrediting body.
2. Course in statistics at the graduate level.
3. Course in research at the graduate level.
4. Current unencumbered license to practice professional nursing in the United States.
5. Certification as an APRN by a nationally recognized accrediting body.
6. Eligibility to be recognized as an APRN in Texas.
7. Curriculum vita or resume.
8. Two letters of recommendation.
9. Essay discussing professional goals.
10. GRE or MAT scores.

Application deadlines and criteria for unconditional and provisional admissions are:

Semester for Admission	Submit application no later than
Fall	May 1
Spring	September 15

Readmission – Doctoral Programs

Doctoral students who interrupt their progression in the doctoral programs for more than two years must make a formal request to the College of Nursing for readmission to the program. The respective Doctoral Coordinator will evaluate the request. If the request is granted, the Academic Advisory Committee will, in consultation with the respective Doctoral Coordinator, stipulate any course work to be repeated. However, the ten-year time limitation for completion of the program shall remain in effect from the time the first doctoral credit is awarded. If during the student's absence, the curriculum or admission standards have changed, the student will be expected to meet any new admission standards and fulfill the requirements of the current curriculum.

Students not in good standing at the time they cease coursework shall not be readmitted to the program. Students who have been dismissed from the program shall not be eligible for readmission. Students who have failed the preliminary examination (Ph.D. program) for the second time shall not be eligible for readmission.

General Requirements for Master's Degrees

Total Hours Required: The total credits required vary depending on the track the student selects. All students complete a minimum of 37 to 46 semester hours.

Nurse Practitioner

Core:

Theoretical Foundations of Nursing Practice	3 hrs.
Research and Quality Improvement in Nursing	4 hrs.
Advanced Assessment / Differential Diagnosis	4 hrs.
Advanced Pathophysiology	3 hrs.
Pharmacotherapeutics for Advanced Nursing Practice	3 hrs.
Health Policy and Health Promotion	3 hrs.
Advanced Practice Nursing Role	2 hrs.
Advanced Practice Nursing Seminar	<u>1 hr.</u>
	23 hrs

Clinical courses in specialty area

Nurse practitioner	23 hrs.
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*Clinical Nurse Leader**Core:*

Theoretical Foundations of Nursing Practice	3 hrs.
Research and Quality Improvement in Nursing	4 hrs.
Health Policy and Health Promotion	3 hrs.
Advanced Assessment/Differential Diagnosis	4 hrs.
Advanced Pathophysiology	3 hrs.
Pharmacotherapeutics for Advanced Nursing Practice	3 hrs.
Clinical specialty courses	<u>20 hrs.</u>
	40 hrs.

Nursing/Health Systems Management

Students complete a major in nursing/health systems management and a minor in health care administration or a minor in business.

Core

Theoretical Foundations of Nursing Practice	3 hrs.
Research and Quality Improvement in Nursing	4 hrs.
Health Policy and Health Promotion	<u>3 hrs.</u>
	10 hrs.

Nursing/Health Systems Management

Nursing Administration Practicums	10 hrs.
Health Systems Management: Challenges and Opportunities	<u>4 hrs.</u>
	14 hrs.

Health Care Administration

Performance Measurement and Quality in Health Care Administration	3 hrs.
Organizational Theory and Health Care Management	3 hrs.
Economics of Health Care	3 hrs.
Management Accounting for Health	3 hrs.
Practicum Supporting Courses/Electives	<u>6 hrs.</u>
	18 hrs.

Business

Management and Organization	3 hrs.
Human Resource Administration	3 hrs.
Managerial Accounting	3 hrs.
Management of Operations	3 hrs.
Practicum Supporting Courses/Electives	<u>6 hrs.</u>
	18 hrs.

*Nursing Education**Core:*

Theoretical Foundations of Nursing Practice	3 hrs.
Research and Quality Improvement in Nursing	<u>4 hrs.</u>
	7 hrs.

Education related electives

With guidance of faculty, student will select two electives.

Electives 6 hrs.

Educator role courses

Theoretical Bases for Nursing Education 3 hrs.

Curriculum Design and Management 3 hrs.

Educational Communication and Technologies
of Instruction 3 hrs.

Education Models for Curriculum Management 3 hrs.

Measurement and Assessment in Nursing 3 hrs.

Teaching Practicum in Nursing I 3 hrs.

Teaching Practicum in Nursing II 3 hrs.

Educator role total hours 21 hrs.

Special Requirements: 1) A grade of 'B' or better is required in all required courses. A student who has earned a grade of less than 'B' ('C', 'D', 'F' or 'WF') in two required courses at the graduate level or who has earned a grade of less than 'B' ('C', 'D', 'F' or 'WF') twice in the same graduate level required course will be removed from the nursing program. For the purpose of removal from the nursing program, a grade of less than 'B' is counted as a grade of less than 'B' even if the course has been successfully repeated. 2) Students admitted to the master's program provisionally, based on low GPA, must complete the first 12 hours of graduate courses with grades of 'B' or better in each course; at least 9 hours must be in nursing courses. A provisionally admitted student will be dismissed from the program if a grade of 'C' or lower is made in any course during the probationary period. 3) For the M.S. graduate who is unsuccessful on a certification examination and is accepted for the re-education process, if the student earns a grade of 'C' or below ('D', 'F', or 'WF') in one of the required re-education courses, he/she will not be allowed to continue in the re-education process.

Time Limit: Credit hours older than six years, including transfer courses, cannot apply toward the master's degree. If a student in one of the certificate options is practicing as an advanced practice nurse and is currently credentialed by the Texas Board of Nursing as an advanced practice registered nurse, the advanced pathophysiology, pharmacotherapeutics, and advanced assessment courses may have been completed no more than 15 years earlier.

Final Examination: Oral examination of the completed professional or clinical project (course work optional).

RN-M.S. Program

An accelerated program is offered for highly motivated and experienced associate degree or diploma prepared RNs whose career goals would be enhanced through graduate study. Students complete the requirements for a baccalaureate degree while concurrently completing some of the requirements for a master's degree. After completing baccalaureate program requirements, students complete the remaining requirements for the master's degree.

Applicants must have a 'B' average in all prerequisite courses, including basic nursing courses, and must meet all requirements for admission to the master's program, with the exception of having completed a baccalaureate degree in nursing. Program information is available from the M.S. or RN-B.S. coordinator at each campus.

Progression requirements for students in RN-M.S. Program: To progress in the nursing program, a student must receive a minimum grade of 'B' in each required course in both the baccalaureate and master's courses and must maintain a 3.0 grade point average. A student may repeat only one course in which a grade of less than 'B' is earned. A student who has earned a grade of less than 'B' in two nursing courses or who has earned a grade of less than 'B' twice in the same required course will be removed from the RN-M.S. program. If a course must be repeated, the student cannot continue to take master's level courses until the course with a grade below 'B' has been successfully repeated; however, a student may continue to take undergraduate courses or choose to continue as an RN to B.S. student. Students who choose to continue as an RN to B.S. student could, upon successful completion of the baccalaureate program, reapply to the master's program.

Certification

Individuals who have a master's degree in nursing may be considered for admission to a post-master's certification program in one of three areas: nurse practitioner, nursing/health systems management, or nursing education.

Hours Required for Nurse Practitioner

Advanced Assessment/Differential Diagnosis	4 hrs.
Pharmacotherapeutics	3 hrs.
Advanced Pathophysiology	3 hrs.
Advanced Practice Nursing Seminar	1 hrs.
Clinical courses in specialty area	23 hrs.

Hours Required for Nursing/Health Systems Management – HCA Minor

Organizational Theory and Health Care Management	3 hrs.
Economics of Health and Medical Care	3 hrs.
Managerial Accounting for Health Care Organizations	3 hrs.
Clinical Practicum	6-7 hrs.
Health Systems Management	<u>4 hrs.</u> 19-20 hrs.

Hours Required for Nursing Health Systems Management – Business Minor

Managerial Accounting	3 hrs.
Management of Operations	3 hrs.
Management and Organization	3 hrs.
Clinical Practicum	6-7 hrs.
Health Systems Management	<u>4 hrs.</u> 19-20 hrs.

Hours Required for Nursing Education

Theoretical Bases for Nursing Education	3 hrs.
Curriculum Design and Management	3 hrs.
Teaching Practicum in Nursing	3 hrs.
Two of the following:	6 hrs.
Educational Communication and Technologies of Instruction	
Measurement and Assessment in Nursing	
Evaluation Models for Curriculum Management	

If a student in one of the certification options is practicing as an advanced practice registered nurse and is currently credentialed by the Texas Board of Nursing as an advanced practice registered nurse, the advanced pathophysiology, pharmacotherapeutics, and advanced assessment courses may have been completed no more than 15 years earlier.

Post Baccalaureate RN to M.S. Program

Students accepted into the Post Baccalaureate RN to M.S. Program (RNMS-PB) are associate or diploma prepared registered nurses with an earned bachelor's degree in another field who desire to obtain a Master of Science degree with a major in nursing. Post Baccalaureate RN to M.S. students do not receive another baccalaureate degree and instead, upon completion of the bridge courses, transition into the full spectrum of master's level courses toward the specialty track chosen. Various specialty tracks are offered in advanced practice, nurse educator, and nursing administration.

Applicants must have a 'B' average in all prerequisite courses, including basic nursing courses, and must meet all requirements for admission to the master's program, with the exception of having completed a baccalaureate in nursing. Students in the Post Baccalaureate RN to M.S. Program complete 10 to 15 semester hours of identified undergraduate coursework and 10 to 13 hours of graduate course work before progressing to unconditional admission to the graduate program. Upon completion of the required baccalaureate hours, students complete the remaining requirements for the master's degree. Depending on the master's specialty chosen, the master's degree can be completed in an additional 3 - 6 semesters of full-time study.

Admission Requirements – Post Baccalaureate RN to M.S.

All applicants to this program are subject to policies of the College of Nursing Master's Program and Graduate School at Texas Woman's University. The requirements for admission to the Post Baccalaureate RN to M.S. Program are:

1. Current license to practice professional nursing in the USA, unencumbered
2. A basic statistics course (included in the required prerequisite coursework).
3. Baccalaureate degree from an accredited College or University in a non-nursing program.
4. Completion of all prerequisites prior to the first class day.
5. A minimum grade point average (GPA) of 3.0 ('B' average) in the last 60 hours of course work toward the bachelor's degree and a minimum GPA of 3.0 ('B' average) in all prior graduate coursework.
6. A minimum grade of 'C' in anatomy and physiology and microbiology.
7. A minimum 'B' average in all required nursing courses for the associate degree or the diploma in nursing.
8. Completion of the equivalent of one year of full-time experience as a registered nurse prior to enrollment in the first clinical course at the master's level.
9. GRE (verbal and quantitative scores) or MAT scores submitted to Student Records.
10. Completion and submission of the *Application for Admission to Upper Division Nursing for the College of Nursing – Post Baccalaureate RN to M.S. Program* to the campus or center where the candidate wants to be considered for admission (Denton Campus, Dallas Center, Houston Center) and for the semester of desired admission. There is **no application fee** to the College of Nursing for registered nurses. The College of Nursing addresses are located on the bottom of the application.

Prerequisite Courses for Admission into the Post Baccalaureate RN to M.S. Program

<i>Prerequisite Courses</i>	<i>Semester Hours</i>
Developmental Psychology (Lifespan)	3
Statistics	3
Introduction to Nutrition	3
Chemistry with lab	4
Microbiology and Lab	4
Human Anatomy and Physiology with Lab	4
Human Anatomy and Physiology with Lab	<u>4</u>
Total Semester Hours	25

Upper division nursing courses will be determined by the program track selected, for a total of 46 to 57 hours to complete.

Advanced Placement – Nursing Courses Which May Be Challenged

All students in the RN to B.S., RN to M.S. and Post Baccalaureate RN to M.S. Program are eligible to challenge specified undergraduate nursing courses. Advanced placement through the challenge examination process offers the registered nurse the opportunity to challenge courses for which she/he has gained knowledge through continuing education, life experiences, or academic course work.

Progression Requirements

To progress in the Post Baccalaureate RN to M.S. Program, a student must receive a minimum of 'B' in each required baccalaureate and master's course and must maintain a 3.0 grade point average. A student may repeat only one course in which a grade of less than 'B' is earned. A student who has earned a grade of less than 'B' in two nursing courses or who has earned a grade of less than 'B' twice in the same required course will be removed from the Post Baccalaureate RN to M.S. Program. If a course must be repeated, the student cannot continue to take master's level courses until the course with a grade below 'B' has been successfully repeated; however, a student may continue to take undergraduate courses or choose to continue as an RN to B.S. student. Students who choose to continue as an RN to B.S. students could, upon completion of the baccalaureate program, reapply to the master's program.

General Requirements for Ph.D. in Nursing Science

Total Hours Required: 60 credit hours beyond the master's degree, including 6 hours for dissertation

Major: 30 hours plus dissertation

Free Electives: 18 hours

Women's Health Elective: 3 hours

Education Elective: 3 hours

Research Tools: To complete the first research tool requirement, students must take statistics. The student must complete six hours of graduate level statistics.

To complete the second research tool students must take 6 semester hours from one of the following areas: Information Retrieval, Global Citizenship, Population Health and Epidemiology, Informatics in Health Care, Professional Writing, or Instrumentation.

Credit hours for research tools do not count toward the total hours required for the degree.

Special Requirements: 1) Grade of 'B' or better is required in all Ph.D. coursework. A student who has earned a grade of less than 'B' ('C', 'D', 'F', or 'WF') in two Ph.D. courses at the graduate level or who has earned a grade of less than 'B' ('C', 'D', 'F', or 'WF') twice in the same graduate level course will be removed from the nursing program. For the purpose of removal from the nursing program, a grade of less than 'B' is counted as a grade of less than 'B' even if the course has been successfully repeated. 2) Students admitted to the doctoral program provisionally, based on low GPA or GRE/MAT, must complete the first 12 hours of coursework with a grade of 'B' or better in each course; at least 6 hours must be in nursing courses. A provisionally admitted student will be dismissed from the program if a grade of 'C' or lower is made in any course during the probationary period.

Preliminary Examination: Written preliminary examination covering the content areas of NURS 6004, NURS 6023, and NURS 6053. May be repeated one time only.

Final Examination: Oral, over the completed dissertation.

General Requirements for the Doctor of Nursing Practice (D.N.P.)

Total Hours Required: At least 90 credit hours beyond the bachelor's degree with 46 hours for the D.N.P. degree requirement. At least 46 credit hours of the 90 hours beyond the bachelor's degree must be completed at TWU.

Clinical Course Requirements: Prior to enrollment in any clinical nursing course each D.N.P. student must show proof of:

- *Professional liability insurance provided through a TWU student liability group policy.*
- *Current professional licensure to practice as a Registered Nurse in Texas, unencumbered.*
- *Recognition as an APRN in Texas.*
- *Current immunizations as required by Texas Law.*
- *Prior to enrollment in the clinical residency courses, the D.N.P. student must have completed at least 1 year of full-time experience as an APRN.*

Students may be required to meet clinical agency requirements such as drug testing and criminal background screening.

Special Requirements: Same as Ph.D.

Clinical Residency: 500 contact hours in the selected area(s) of clinical expertise.

Capstone Project: Written analysis of a clinical problem or issue based on current scientific evidence, informatics, and technological advances.

Major: 40 hours of required courses in nursing, administration, library science, and biology

Electives: 6 hours

Special Requirements: 1) Grade of 'B' or better is required in all courses. A student who has earned a grade of less than 'B' ('C', 'D', 'F', or 'WF') in two nursing courses at the graduate level or who has earned a grade of less than 'B' ('C', 'D', 'F', or 'WF') in the same graduate level course will be removed from the nursing program. For the purpose of removal from the nursing program, a grade of less than 'B' is counted as a grade of less than 'B' even if the course has been successfully repeated. 2) Students admitted to the doctoral program provisionally, based on low GPA or GRE/MAT, must complete the first 12 hours of coursework with a grade of 'B' or better in each course; at least 6 hours must be in nursing courses. A provisionally admitted student will be dismissed from the program if a grade of 'C' or lower is made in any course during the probationary period.

Minors Offered to Students by Other Departments

The Library Science minor requires 18 semester hours of course work, 6 of which are University recognized research tools (LS 5533, Internet Research for Non-Library Science Majors and LS 5553, Electronic Information Retrieval for Non-Library Science Majors). Other courses may be chosen from a variety of electives and are selected on an individual basis in conjunction with a Library Science faculty advisor.

Program Expenses

Information regarding required tuition and fees and length of program is printed in this catalog.

Courses of Instruction in Nursing

NURS 5001. Advanced Practice Nursing Seminar. An integration course that emphasizes application of knowledge about advanced practice nursing scope of practice, health policy, and health care delivery as they relate to functioning as an effective health care professional. Prerequisite: NURS 5105 or NURS 5305 or NURS 5405 or NURS 5505 or NURS 5605 – (Second Clinical Nursing Course). One seminar hour a week. Credit: One hour.

NURS 5002. Advanced Practice Nursing Role. Examines the impact of health care policy, health care organizations, and health care reimbursement on the advanced practice nurse. Further examines the scope of practice of different advanced practice nurse roles and the collaborative relationships with other health care professionals. Two seminar hours a week. Credit: Two hours.

NURS 5003. Health Policy and Health Promotion. Principles of health promotion and disease prevention in individuals and communities as a foundation for nursing practice. Examination of ethical issues; policy processes; and influence or regulations, legislation, and public policy on various client populations. Three lecture hours a week. Credit: Three hours.

NURS 5005. Acute Care Nurse Practitioner I. Focuses on the diagnostic and management issues related to the care of the acutely ill patient. Students will explore the pathophysiologic as well as the psychosocial influences of acute illness and injury. Evidence-based practice will be the approach used to determine the nursing, medical, and pharmacological management of the patient. Prerequisites: NURS 5013, BIOL 5333, NURS 5644, NURS 5663. Three lecture hours and six laboratory hours a week. Credit: Five hours.

NURS 5013. Theoretical Foundations of Nursing Practice. Examination, critique, and evaluation of theories that provide the basis for nursing practice; application and use of appropriate theories for nursing practice and research; cyclical nature of theory, research and practice in health care. Three lecture hours a week. Credit: Three hours.

NURS 5015. Acute Care Nurse Practitioner II. Focuses on the diagnostic and management issues related to the chronically ill patient. Students will continue to use evidence based interventions to determine the nursing, medical, and pharmacological management of patients with chronic and co-morbid illness. Prerequisite: NURS 5005. Three lecture hours and six laboratory hours a week. Credit: Five hours.

NURS 5024. Research and Quality Improvement in Nursing. Application of research and quality improvement in clinical settings. Problem identification, examination of evidence, and development of strategies to incorporate research and quality-driven changes in practice. Critique and use of research design, statistical methods, and use of computer information systems. Prerequisites: Basic statistics course. Pre/corequisite: NURS 5013 or permission of instructor. Four lecture hours a week. Credit: Four hours.

NURS 5025. Acute Care Nurse Practitioner III. Focuses on the diagnostic and management issues of the critically ill patient. Emphasis will be placed on the pathophysiologic and psychosocial influences of the critically ill and injured patient. Evidence-based interventions will be used to determine the nursing, medical, and pharmacological management of patients and families with critical illness or injury. Prerequisite: NURS 5015. Corequisite: NURS 5001. Three lecture hours and six laboratory hours a week. Credit: Five hours.

NURS 5203. Theoretical Bases for Nursing Education. Overview of education and theories of teaching and learning related to nursing education and practice. Focus is on general categories of cognitive and behavioral theories. Selection of appropriate teaching/learning theories to address the learning needs of culturally diverse groups and individuals. Three lecture hours a week. Credit: Three hours.

NURS 5253. Curriculum Design and Management in Nursing. Focus on nursing curriculum design from mission statement and philosophy. Includes examination of a variety of conceptual frameworks and their appropriateness for various settings, students, and knowledge components (curriculum elements). Emphasis on curriculum development at institutional level, course level, and individual class level in academic and clinical settings. Three lecture hours a week. Credit: Three hours.

NURS 5263. Educational Communication and Technologies of Instruction. Selection, use and evaluation of communication techniques and technology in various nursing educational settings. Includes traditional classroom teaching techniques of lecture, discussion, small group projects, forums, seminars, and use of audio-visuals, plus utilization of computer-based instruction and distance education techniques. Three lecture hours a week. Credit: Three hours.

NURS 5273. Measurement and Assessment in Nursing. Selection and preparation of a variety of methodologies to assess learning. Application of educational statistics to evaluate various forms of testing and to measure learning. Includes item analysis of standardized and teacher-made exams. Work with on-campus faculty for mastery of content. Three lecture hours a week. Credit: Three hours.

NURS 5283. Evaluation Models for Curriculum Management. Utilization of various models to assess learner achievement, faculty or teacher performance, achievement of course objectives, and measurement of program outcomes in academic or clinical educational settings. Examination of accreditation models. Three lecture hours a week. Credit: Three hours.

NURS 5293. Teaching Practicum in Nursing. Application of the nurse's role as teacher in educational setting of choice: academia, staff development, or patient education. Focus is on integration of theory and practice of education role with socialization in to the role of nurse educator. Pre-requisites: NURS 5203. Pre/corequisites: NURS 5253. Nine practicum hours a week. Credit: Three hours.

NURS 5325. Child Health Nursing I. Provides the foundation for assessment and intervention with well children and their families. Integrates concepts of growth and development and common health problems experienced by children from birth through adolescence. Emphasizes developmental screening tests and

anticipatory guidance. Prerequisites: NURS 5013, BIOL 5333, NURS 5644. Pre/corequisites: NURS 5002, NURS 5003, NURS 5663. Three lecture hours and six laboratory hours a week. Credit: Five hours.

NURS 5305. Child Health Nursing II. Focuses on the clinical management of common acute illnesses experienced by children and adolescents; physical and behavioral problems are discussed. Theories related to culture and health beliefs are incorporated. Prerequisite: NURS 5325, NURS 5663. Pre/corequisites: NURS 5023. Three lecture hours and six laboratory hours a week. Credit: Five hours.

NURS 5315. Child Health Nursing III. Emphasizes theories related to chronic illness and coping in children and adolescents. Physiological, behavioral, and family theories are applied to management of chronic illness. Clinical knowledge and skills are applied in hospital and community settings. Prerequisite: NURS 5305. Two lecture hours and nine laboratory hours a week. Credit: Five hours.

NURS 5425. Women's Health Nursing I. Emphasizes the collaborative management of the reproductive health of women utilizing current theory, research, and clinical practice findings. Examines developmental dynamics and family structure throughout the lifespan in relation to childbearing. Incorporates appropriate treatment modalities, pharmacologic interventions, and referral criteria for advanced nursing practice. Prerequisites: NURS 5013, BIOL 5333, NURS 5644. Pre/corequisites: NURS 5002, NURS 5003, NURS 5663. Three lecture hours and six laboratory hours a week. Credit: Five hours.

NURS 5405. Women's Health Nursing II. Emphasizes the collaborative management of reproductive health of non-childbearing adolescents and women utilizing current theory, research, and clinical practice findings. Examines developmental dynamics and family structure throughout the life span in relation to women's health. Incorporates appropriate treatment modalities, pharmacologic interventions, and referral criteria for gynecological problems in advanced nursing practice. Prerequisite: NURS 5425, NURS 5663. Pre/corequisites: NURS 5023. Three lecture hours and six laboratory hours a week. Credit: Five hours.

NURS 5415. Women's Health Nursing III. Emphasizes the collaborative clinical management of non-reproductive health care needs of women throughout the life span utilizing current theory, research, and clinical practice findings. Class focuses on diagnosis and advanced nursing management of problems relevant to adult and older women with acute and/or chronic diseases. Clinical practice includes treatment modalities, pharmacologic interventions, and referral for reproductive and non-reproductive problems. Prerequisite: NURS 5405. Two lecture hours and nine laboratory hours a week. Credit: Five hours.

NURS 5525. Adult Health Nursing I. Focuses on promoting and maintaining the wellness of adults through theory and research-based interventions and management derived by use of critical thinking and diagnostic reasoning. Families are considered when assessing adults and their health status. Explores delivery of health care in a variety of settings. Prerequisites: NURS 5013, BIOL 5333, NURS 5644. Pre/corequisites: NURS 5002, NURS 5003, NURS 5663. Three lecture hours and six laboratory hours a week. Credit: Five hours.

NURS 5505. Adult Health Nursing II. Focuses on management of commonly encountered health deviations in the adult population. Examines protocols for treatment decisions, referrals, and follow-up. Addresses client and family teaching related to management of health problems and concerns. Prerequisite: NURS 5525, NURS 5663. Pre/corequisites: NURS 5023. Three lecture hours and six laboratory hours a week. Credit: Five hours.

NURS 5515. Adult Health Nursing III. Focuses on application of advanced nursing practice skills utilizing all aspects of collaborative management of primary, secondary, and tertiary health care needs of adults. Emphasizes health needs of geriatric clients and emergency care. Synthesis and evaluation of various theoretical concepts, research findings, and clinical protocols are emphasized. Prerequisite: NURS 5505. Two lecture hours and nine laboratory hours per a week. Credit: Five hours.

NURS 5544. Organizational Assessment Practicum. Focus is on the exploration of the nurse administrator's role in complex health care settings. Emphasis is on the assessment of the health care organization and the integration of management, business and nursing concepts as they relate to the delivery of nursing care. The clinical practicum will be one of four healthcare environments: acute care; ambulatory; long-term care or community/home health care. Prerequisites/HCA minor: NURS 5013; NURS 5023; HCA 5223. Prerequisites/BUS minor: NURS 5013, NURS 5023, NURS 5003, BUS 5523, BUS 5273. Two lecture hours and 6 hours of clinical practicum per week. Credit: Four hours.

NURS 5543. Outcomes Assessment Practicum. Assessment of the structural, process and summative outcomes of healthcare organizations. Emphasis on the decision making and planned change process used by the nurse administrator in responding to legal, ethical, and economic issues which drive changes in processes and impact outcomes in health care facilities. The clinical practicum will be one of four healthcare environments: acute care; ambulatory; long-term care or community/home health care. Prerequisites/HCA minor: NURS 5013, NURS 5023, NURS 5003, HCA 5223, HCA 5493. Prerequisites/BUS minor: NURS 5013, NURS 5023, NURS 5003, BUS 5563, BUS 5523, BUS 5273. One lecture hour and 6 hours of clinical practicum per week. Credit: Three hours.

NURS 5553. Fiscal Assessment Practicum. Emphasis is on the financial management of health care institutions and its impact on the nursing unit, impact of regulatory agencies and the development of budgets and RFPs. The clinical practicum will be one of four healthcare environments: acute care; ambulatory; long-term care or community/home health care. Prerequisites/HCA minor: NURS 5013, NURS 5023, HCA 5223, HCA 5533, HCA 5623. Prerequisites/BUS minor: NURS 5013, NURS 5023, NURS 5003, BUS 5523, BUS 5433, BUS 5273. One lecture hour and 6 hours of clinical practicum per week. Credit: Three hours.

NURS 5554. Nursing Health Systems Management: Challenges and Opportunities. Current issues in nursing practice related to future trends in health care delivery and financial reimbursement. Emphasis is on development of a proposal and project to solve an administrative issue to demonstrate mastery of program

content. Prerequisites: NURS 5544, NURS 5553, corequisite NURS 5543. Four lecture hours per week. Credit: Four hours.

NURS 5625. Family Health Nursing I. Family theory based nursing practice in the assessment and management of health needs across the life span. Emphasizes wellness and primary prevention for culturally diverse and medically underserved families. Integrates knowledge of growth and development. Promotes critical thinking and diagnostic reasoning skills in clinical decision making. Prerequisites: NURS 5013, BIOL 5333, NURS 5644. Pre/corequisites: NURS 5002, NURS 5003, NURS 5663. Three lecture hours and six laboratory hours a week. Credit: Five hours.

NURS 5605. Family Health Nursing II. Delivery of primary health care services to culturally diverse and medically underserved families across the life span, emphasizing health promotion and health maintenance. Emphasizes common acute/chronic problems. Utilizes role concepts and theories. Prerequisites: NURS 5625, NURS 5663. Pre/corequisites: NURS 5023, NURS 5002. Three lecture hours and six laboratory hours a week. Credit: Five hours.

NURS 5615. Family Health Nursing III. Synthesizes concepts from theory based family-centered nursing, pathophysiology, assessment, pharmacotherapeutics, and role practice for the management of culturally diverse and medically underserved families from across the life span. Focuses on health promotion and health maintenance in primary health care settings. Prerequisite: NURS 5605. Two lecture hours and nine laboratory hours a week. Credit: Five hours.

NURS 5644. Advanced Assessment/Differential Diagnosis. Examination of the systematic process involved in performing a holistic health assessment on individuals throughout the lifespan. Includes knowledge and skills necessary to gather data, interpret findings, make health diagnoses, communicate results, and empower clients. Pre/corequisite: BIOL 5333. Three lecture hours and three laboratory hours a week. Credit: Four hours.

NURS 5663. Pharmacotherapeutics for Advanced Nursing Practice. Advanced course based upon the previous knowledge of pharmacology and pharmacotherapeutics obtained in undergraduate education and clinical practice. Content in this course will provide a foundation for the pharmacotherapeutic management of common health problems across the lifespan encountered in advanced nursing practice. Three lecture hours a week. Credit: Three hours.

NURS 5683. Nurse Preceptorship I. Clinical practice course to implement the nurse practitioner role. Emphasis is on synthesizing nursing and medical knowledge to maintain and promote health in well clients and families and to clinically manage clients and families with common acute and chronic illnesses. Pre/Corequisites: NURS 5315 or NURS 5415 or NURS 5515 or NURS 5615 (Third Clinical Courses), NURS 5001. Nine hours of clinical preceptorship a week. Credit: Three hours.

NURS 5695. Nurse Preceptorship II. Synthesis of knowledge and skills in health promotion and maintenance across the lifespan. Clinical management of clients and families with common acute and chronic illnesses. Demonstration of mastery of knowledge and skills through a clinical project. Pre-requisites NURS 5415 or NURS 5515, or NURS 5315, or NURS 5615, or NURS 5025 (Third Clinical

Courses), NURS 5001. Corequisites: NURS 5683. One hour of seminar per week and twelve hours of clinical preceptorship a week. Credit: Three hours.

NURS 5903. Special Topics in Nursing. Systematic study of a designated topic in advanced nursing. Three lecture hours a week. Credit: Three hours.

NURS 5911. Individual Study. Individual study of a selected problem in nursing. May be repeated for credit. Prerequisite: Permission of instructor. Credit: One hour.

NURS 5913. Individual Study. Individual study of a selected problem in nursing. Prerequisite: Permission of instructor. Credit: Three hours.

NURS 5963. Professional Project. Synthesis and application of information gained in the master's program through an individually-identified professional project. Integrates knowledge and skills, analytical and critical thinking skills, and writing and presentation skills. Prerequisite: NURS 5023 and completion of the first clinical course in the sequence. Three lecture hours a week. Credit: Three hours.

NURS 6002. Multicultural Nursing. Focuses on development of the student as a member of a culture within the context of a global paradigm. Students will develop an appreciation for their own culture as well as appreciation of other cultures. Universal view will result in the development of a theoretical framework for the incorporation of cultural competence at each level of doctoral study and post-doctoral practice. Two lecture hours a week. Credit: Two hours.

NURS 6003. Grant Writing. Comprehensive introduction to the components of a grant. Basic steps for skill development in preparation, design and evaluation are included. Three lecture hours a week. Credit: Three hours.

NURS 6004. Theory and Foundations of Nursing Research. Critical analysis of theory and study of qualitative and quantitative methods. Emphasis on inductive and deductive logic involved in knowledge development and testing. Examines limitations posed by quantitative and qualitative methods. Prior statistical and philosophical content is applied in examining current problems of concern to nurses. Independent literature reviews and utilization of basic research theory provide opportunities to pose questions for future research. Prerequisites: Completion of statistics research tool, NURS 6023; Corequisite: NURS 6053. Four lecture hours a week. Credit: Four hours.

NURS 6014. Theory and Methods of Quantitative Nursing Research. Application of quantitative theories and methods through proposal development and participation in ongoing research to address substantive health problems. Prerequisite: NURS 6004 or permission of instructor. Three lecture hours and three practicum hours a week. Credit: Four hours.

NURS 6023. Philosophy of Nursing Science. Overview of concepts related to philosophy, philosophy of science, and philosophy of nursing. Includes exploration and analysis of major philosophers, comparison of Eastern and Western philosophy, and the contribution of these philosophies to the origin and development of nursing philosophy and science. Three lecture hours a week. Credit: Three hours.

NURS 6024. Theory and Methods of Qualitative Nursing Research.

Explores methods of qualitative research including the choice of design and methods to address substantive human health problems. Examines qualitative data analysis techniques, including the use of software programs. Practicum provides opportunity to collect data for analysis and prepare a report. Prerequisites: NURS 6004 or permission of the instructor. Three lecture hours and three practicum hours a week. Credit: Four hours.

NURS 6033. Ethical Dimensions of Nursing. Examines ethical issues in contemporary nursing practice from the perspective of nursing as a moral enterprise. Focuses on nurses making informed and responsible choices that shape the future of society as well as the nursing profession. Traditional and contemporary ethical positions will be explored as they apply to common ethical and moral problems found in nursing. Three lecture hours a week. Credit: Three hours.

NURS 6034. Research/Theory Synthesis. Synthesizes theory development knowledge with strategies for testing theoretical statements pertaining to the student's selected research. Students will develop a formal proposal and conduct a pilot study. Students will present work for critique and engage in scholarly critique of peer's work. Prerequisites: NURS 6014, NURS 6024. One lecture hour and nine practicum hours a week. Credit: Four hours.

NURS 6035. DNP Practicum I. Clinical course designed for Advanced Practice Registered Nurse (APRN) to provide increased expertise in a specific area. The APRN will function as an interdisciplinary team member, providing care to a select patient population. Includes assessment and evaluation of informatics, genetics, and technology use in selected clinical site. Prerequisites: NURS 6023, 6033, 6043, 6163. Fifteen clinical hours a week. Credit: Five hours.

NURS 6043. Policy, Power, and Politics. Examines concepts of social policy, power and political behaviors and generates strategies for exercising professional leadership in effecting change in health disciplines. Exploration and analysis of theories supporting policy making as a decision-making body or power base for action or inaction. Role of health politics in the work place, organization, government, and community will be examined with special emphasis on the politics of women's health care. Three lecture hours a week. Credit: Three hours.

NURS 6045. DNP Practicum II. Clinical course designed to refine skills developed in NURS 6035. The Advanced Practice Registered Nurse (APRN) will select and implement evidence-based strategies, utilize genetics, demonstrate leadership within the context of the health care team, and measure outcomes using informatics for quality improvement. Prerequisite: NURS 6035. Fifteen clinical hours a week. Credit: Five hours.

NURS 6053. Exploring Scholarship. Introductory course will prepare the doctoral student to examine scholarship in detail and identify mechanisms to enhance own scholarship. Three lecture hours a week. Credit: Three hours.

NURS 6163. Health Outcomes: Measurement, Management, and Analysis.

Explores changes in health care system and emerging health care priority agenda with focus on outcomes. Emphasizes importance of outcome indicators and need for new or revised measures in selected health conditions and related settings.

Analyzes relationship among process, outcomes, and costs. Focuses on development of research programs addressing clinical, institutional, or systems research. Prerequisites: NURS 6014 or consent of faculty. Three lecture hours a week. Credit: Three hours.

NURS 6173. Instruments in Nursing Research. Assists the student in developing the knowledge base and skills for locating, evaluating, constructing, and testing instruments that measure clinical nursing phenomena. Focus will be on approaches to instrument development as well as on evaluation of the psychometric properties of existing instruments. Prerequisites: Completion of a graduate level statistics course and NURS 6004 or permission of the instructor. Credit: Three hours.

NURS 6183. Theory Analysis and Evaluation in Nursing. Exploration of the structure and function of theory as applied to nursing science; analysis and evaluation of a self-selected theory as a foundation for dissertation research. Three lecture hours a week. Credit: Three hours.

NURS 6213. Multicultural Women's Health Research. Compares, contrasts and analyzes issues related to past and present research on the health of women in various cultures. Future research needs prioritized with an emphasis on funding sources and collaborative opportunities. Emphasizes the quality, quantity, and foci of research on women's health, with analysis of issues which have precluded women from health-related research in the past and from full participation in the health care delivery systems of today. Focuses on empowerment of women in health promotion within a cultural context and explores and analyzes strategies to improve health delivery to women in various cultural settings from a research-based practice model. Three lecture hours a week. Credit: Three hours.

NURS 6223. Threats to Women's Health. Familiarizes students with the leading causes of morbidity and mortality among American women. Identifies feminist issues raised by the health of American women. Addresses influence of race, class, and gender upon health. Current analyses of women's health by contemporary scholars provides context for raising research questions. Explores potential research projects. Three lecture hours a week. Credit: Three hours.

NURS 6243. Feminist Pedagogy in Nursing Education. Feminist pedagogy provides paradigm for teaching strategies used in classrooms and clinical or practicum experiences. Critically examines teaching strategies founded on behaviorism and patriarchal perspectives. Emphasizes how teaching/learning experiences can move from training toward education, from memorization toward critical thinking, and from students as recipients of information to students as fully empowered participants in knowledge discovery. Three lecture hours a week. Credit: Three hours.

NURS 6303. Professional Capstone Project.** Clinical project based upon selection and implementation of evidence-based interventions supported through informatics and technological advances and measurement of outcomes in selected clinical site. Includes written and public presentation of findings and submission of article for publication in a peer-reviewed scholarly journal. Prerequisite: NURS 6163. Pre/corequisite: NURS 6035. Three seminar hours a week. Credit: Three hours.

NURS 6313. Epidemiology, Health Promotion, and Research in Advanced Nursing Practice. Analysis of epidemiological, biostatistical, environmental, genetic, behavioral, and socioeconomic data to evaluate interventions and health-care delivery models. Incorporates evidence-appraisal from national data bases and identification of evidence-based guidelines for health promotion and disease prevention. Prerequisite: LS 5363 or LS 5533, or LS 5553. Three lecture hours a week. Credit: Three hours.

NURS 6323. Informatics and Research in Nursing and Health Care. Promotion of evidence-based research and practice through health care informatics. Includes informatics theories, research methodologies, networks, skills, technology, system implementation, and management of data bases. Overview of electronic health records, telehealth, web-based education, bioinformatics, robotics, genomics, and individually-customized health care. Three lecture hours a week. Credit: Three hours.

NURS 6333. Current Topics in Informatics and Research in Nursing and Health. Emerging informatics trends and anticipated developments such as patient safety, consumer informatics, system implementation issues, human factors design, interoperability, privacy and security. Examination of informatics theories, translational informatics research and generating evidence for practice. Prerequisite: NURS 6323 or permission of the instructor. Three lecture hours a week. Credit: Three hours.

NURS 6613. Introduction to Clinical Investigation in Nursing. Quantification and interpretation of clinical nursing phenomena with emphasis on analysis of relational statements and propositions in theories and conceptual frameworks. Three lecture hours a week. Credit: Three hours.

NURS 6623. Systematic Inquiry in Nursing. Analysis of clinical nursing phenomena with emphasis on advanced quantification and interpretation of clinical data in analysis of models and theoretical statements in nursing. Three lecture hours a week. Credit: Three hours.

NURS 6633. Advanced Systematic Inquiry in Nursing. Experimental investigation of relational statements in testing of nursing theories and conceptual frameworks. Emphasis on application in clinical settings. Three lecture hours a week. Credit: Three hours.

NURS 6903. Special Topics. Selected current topics in nursing. Credit: Three hours.

NURS 6911. Individual Study. Individual study of a selected problem in nursing. Prerequisite: Permission of instructor. Credit: One hour.

NURS 6913. Individual Study. Individual study of a selected problem in nursing. Prerequisite: Permission of instructor. Credit: Three hours.

NURS 6983. Dissertation. Credit: Three hours.

NURS 6993. Dissertation. Credit: Three hours.

Faculty

NOTE: Asterisk (*) denotes Full Graduate Faculty status. Double asterisk (**) denotes Associate Graduate Faculty status. List is correct as of May, 2012.

- * ADAMS, SUSANA., Associate Professor of Family Sciences. B.A., Louisiana Tech University; M.Ed., Northeast Louisiana University; Ph.D., Texas A&M University – Commerce.

AHMED, SHAZIA, Lab Instructor, Biology. B.S., M.S., University of Karachi; Ph.D., Texas Woman's University

- * AKIN, LYNN, Associate Professor of Library and Information Studies. B.A., Trenton State College; M.L.S., Ph.D., Texas Woman's University.

- * ALBRIGHT, LETTIE K., Professor of Reading. B.A., Saint Mary's College; M.Ed., University of North Carolina; Ph.D., Ohio University.

- * ALLEN, DWANE, Assistant Professor of Teacher Education. B.S., Angelo State University; M.A., Stephen F. Austin University; Ph.D., Texas Woman's University.

- * ALLMAN, TAMBY, Assistant Professor of Communication Sciences and Disorders. B.S., Baylor University; M.A., Texas Woman's University; Ed.D., National-Louis University.

- ** AMERIH, HUSNY, Assistant Professor of Occupational Therapy. B.S., M.S., University of Central Arkansas; Ph.D., Texas Woman's University.

ANDERLE, DALE, Assistant Clinical Professor of Physical Therapy. B.A., University of North Texas; M.S., Texas Woman's University; D.P.T., A.T. Still University.

- * ANDERSON, GINA, Associate Professor of Teacher Education. B.S., University of Oklahoma; M.S., Ed.D., Oklahoma State University.

- ** ANDERSON, JANICE, Assistant Professor of Nursing. B.S., M.S., West Texas A&M University; Ph.D., Texas Woman's University.

- * ANDERSON, MARY E., Associate Professor of Chemistry. B.A., Hollins College; Ph.D., Cornell University.

- * ANDERSON, NANCY L., Professor of Reading. B.A., Texas Lutheran University; M.Ed., University of Houston; Ph.D., The Ohio State University.

ARGUELLO, ERIC, Assistant Professor of Physical Therapy. B.A., Augustana College; M.S., Florida State University; M.S.P.T., University of South Florida; D.P.T., Regis University; Ph.D., Florida State University.
- * ARMSTRONG, ERIKA S., Assistant Professor of Communication Sciences and Disorders. B.A., M.S., Ph.D., University of Texas at Dallas.
- * ARMSTRONG, JOYCE J., Professor of Family Sciences. B.S., M.Ed., East Texas State University; Ph.D., Texas Woman's University.
- ** ARNOLD, CAROL M., Associate Professor of Nursing. B.S., M.S., Ph.D., Texas Woman's University.
- ** ASBURY, EDWARD T., Assistant Professor of Psychology. B.A., University of Tennessee; M.A., East Tennessee State University; M.S., Ph.D., Texas Christian University.
- * AYERS, CONSTANCE J., Associate Professor of Nursing. B.S., M.S., University of Missouri-Columbia; Ph.D., Texas Woman's University.
- * BAILEY, CATHERINE BURKE, Associate Professor of Nursing. B.S., M.S., Ph.D., Texas Woman's University.

BAKER, PAMELA, Associate Professor of Business and Economics. B.A., Hendrix College; M.S., University of Houston at Clear Lake; Ph.D., University of North Texas.
- * BAKER, VICKI, Assistant Professor of Music. B.A., Texas A&M University – Corpus Christi; M.A., Texas Woman's University; Ph.D., Texas Tech University.
- ** BANKS, CATHERINE CLEAVELAND, Senior Lecturer in Mathematics. B.S., M.S., Stephen F. Austin State University.
- * BARBOUR, JOANN D., Professor of Administration. B.A., Gonzaga University; M.A., Arizona State University; M.A., Ph.D., Stanford University.
- * BARTLETT, WILLIAM, Professor of Physical Therapy. B.S., State University of New York; Ph.D., Albany Medical College.

- ** BATTLE, JOEL, Assistant Professor of Library and Information Studies. B.S., Chicago State University; M.L.I.S., Ph.D., University of North Texas.
- * BAXTER, MARY FRANCES, Associate Professor of Occupational Therapy. B.S., Colorado State University; M.A., Texas Woman's University; Ph.D., University of Houston.
- ** BECK, BRIAN W., Assistant Professor of Biology. B.S., Texas A&M University; Ph.D., Washington State University.
- * BEDNAR, CAROLYN, Professor of Nutrition and Food Sciences. B.S., University of Nebraska; M.S., University of Tennessee; Ph.D., University of Nebraska.
- ** BEINS, AGATHA, Assistant Professor of Women's Studies. B.A., Carleton College; M.A., University of Arizona; M.F.A., Eastern Washington University; Ph.D., Rutgers University.
- * BELFIGLIO, VALENTINE J., Cornaro Professor of History and Government. B.S. Pha., Union University; M.A., Ph.D., University of Oklahoma.
- * BEN-EZRA, VICTOR, Professor of Kinesiology. B.S., City College of New York; M.S., Springfield College; Ph.D., University of Maryland.
- ** BENGÉ, SHARON J., Professor of Drama. B.A., University of Texas; M.F.A., Texas Christian University.
- * BENHAM-HUTCHINS, MARGE, Assistant Professor of Nursing. B.S., M.S., University of Texas at Arlington; Ph.D., University of Arizona.
- * BERGEL, MICHAEL, Associate Professor of Biology. B.Sc., M.Sc., Ph.D., Hebrew University of Jerusalem.
- * BHARADWAJ, SNEHA, Assistant Professor of Communication Sciences and Disorders. B.S., M.S., University of Mysore, India; Ph.D., University of Texas at Dallas.
- * BIGGERSTAFF, KYLE, Associate Professor of Kinesiology. B.A., Southern Methodist University; M.S., University of North Texas; Ph.D., Florida State University.
- * BINDER, BRENDA K., Associate Professor of Nursing. B.S., Michigan State University; M.S.N., University of Texas Health Science Center at Houston; Ph.D., Texas Woman's University.

- ** BLAIR, FAYE, Associate Clinical Professor of Nursing. B.A., B.S., University of Texas Medical Branch at Galveston; M.S.N., University of Texas Health Science Center at Houston; Ph.D., Texas Woman's University.
- ** BLANCO, PEDRO, Assistant Professor of Family Sciences. B.A., Southwest Texas State University; M.S., Lewis & Clark College; Ph.D., University of North Texas.
- * BLOSSER, JACOB M., Associate Professor of History. B.A. Milligan College; M.A., James Madison University; Ph.D., University of South Carolina.
- * BOWMAN, O. JAYNE, Associate Professor of Occupational Therapy. B.S., University of Wisconsin, Madison; M.S., Washington University School of Medicine; Ph.D., Texas A&M University.
- * BOWYER, PATRICIA, Associate Professor of Occupational Therapy; Associate Director of the School of Occupational Therapy, Houston, B.A., Milligan College; M.S., Eastern Kentucky University; Ed.D., East Tennessee State University.
- BRACKENRIDGE, SANDRA, Associate Professor of Social Work. B.A., Newcomb College of Tulane University; M.S.W., Tulane University of Social Work.
- * BRIDGES, PHYLLIS J., Cornaro Professor of English. B.A., M.A., West Texas State University; Ph.D., Texas Tech University.
- * BRIGGS, CONNIE, Professor of Reading; Interim Chair of the Department of Reading. B.A., M.Ed., Southeastern Oklahoma State University; Ph.D., University of North Texas.
- * BRITT, BILLYMARK, Professor of Chemistry. B.S., Millsaps College; Ph.D., University of Oregon.
- * BROCK, LINDA. Associate Professor of Family Sciences. B.B.A., North Texas State University; M.S., Ph.D., Texas Woman's University.
- BROGAN, MAUREEN M., Assistant Clinical Professor of Nursing. B.S., Southern Illinois University; M.S., Texas Woman's University.
- ** BROWN, DIANE, Associate Clinical Professor of Occupational Therapy. B.S., Baylor University; M.O.T., Texas Woman's University; Ph.D., University of North Texas.

BROWN, KATHRYN, Senior Lecturer in Kinesiology. B.S., Oklahoma Panhandle State University; M.A., Northwestern Oklahoma State University; M.S., Oklahoma State University.

BUCKINGHAM, DEBORAH K., Associate Clinical Professor of Occupational Therapy. B.S., Texas Woman's University; M.S., University of North Texas.

- * BUCKLEY, RHONDA, Associate Professor of Family Sciences. B.A., M.A., Ph.D., Auburn University.
- * BURNS, HUGH L., Professor of English. A.B., San Diego State; M.A., University of Southern California; Ph.D., University of Texas at Austin.

BUSH, ROSE MARY, Associate Clinical Professor of Nutrition and Food Sciences; Coordinator of the Department of Nutrition, Houston. B.S., Grambling State University; M.S., Louisiana Tech University.

- * BYNANE, PATRICK M., Associate Professor of Drama; Program Director of Drama. B.A., Ashland University; M.A., Southwest Missouri State University; Ph.D., Louisiana State University.
- * BYRD, GLORIA, Associate Professor of Nursing. B.S., University of Texas Medical Branch at Galveston; M.S., Texas Woman's University; Ph.D., Texas A&M University.

- ** CAHILL, MARIA, Assistant Professor of Library and Information Studies. B.S., East Tennessee University; M.L.S., University of South Carolina; Ph.D., University of Tennessee.

- * CALABRESE, JOHN, Professor of Art. B.A., Catholic University; M.F.A., Pratt Institute; Ph.D., Ohio University.

- * CALDWELL, LINDA, Professor of Dance. B.A., University of Iowa; M.F.A., University of Wisconsin; Ph.D., Texas Woman's University; C.M.A., Laban-Bartenieff Institute of Movement Studies.

CAMPBELL, RACHELLE, Clinical Instructor of Nursing. B.S., University of Texas at Arlington; M.S., Texas Woman's University.

- * CAMPBELL, REGINA MICHAEL, Associate Professor of Occupational Therapy. B.S., Eastern Michigan University; M.S., University of Michigan.
- ** CANDELARIO, ROSEMARY, Assistant Professor of Dance. B.A., Boston University; M.S., Ph.D., University of California, Los Angeles.

- * CANDLER, CATHERINE, Associate Professor of Occupational Therapy; Director of the School of Occupational Therapy. B.S., University of Kansas; M.A., Ph.D., Texas Woman's University.
 - * CASPER, VIVIAN C., Associate Professor of English. B.A., Washburn University; M.A., Ph.D., Rice University.
 - * CESARIO, SANDRA, Professor of Nursing. B.S., Fort Hays State University; M.S., University of Oklahoma; Ph.D., Texas Woman's University.
 - * CHAN, SUK-KUEN JOSEPHINE, Professor of Occupational Therapy. B.S., Hong Kong Polytechnic; M.A., Texas Woman's University; Ph.D., University of Houston.
- CHANCE, PAULA, Assistant Clinical Professor of Communication Sciences and Disorders. B.S., Abilene Christian University; M.S., Texas Woman's University.
- * CHANEY, SUSAN GOAD, Cornaro Professor of Nursing. B.S.N., Incarnate Word College; M.S., Texas Woman's University; Ed.D., University of Houston.
 - * CHANG, PEI-FEN J., Assistant Professor of Occupational Therapy. B.S., National Taiwan University; M.S., University of Southern California; Ph.D., University of Texas Medical Branch at Galveston.
 - * CHENEVERT, JAMES, Professor of Music. B.A., M.A., University of Minnesota; Ph.D., University of Wisconsin-Madison.
 - * CHO, HO SOON MICHELLE, Professor of Nursing. B.S., M.S., Ph.D., Texas Woman's University.
 - * COHEN, NICKI, Professor of Music. B.S., M.M.E., Duquesne University; M.A., University of Denver; Ph.D., University of Kansas.
 - * CONRAD-WEBB, HEATHER M., Associate Professor of Biology. B.S., Baylor University; Ph.D., The Ohio State University.
 - ** COSTELLO, CHARLES, Associate Professor of Physical Therapy. MCSP Army School of PT, England; M.S. Wayne State University; Ph.D., Texas Woman's University.
 - * COWART, MELINDA, Professor of Teacher Education. B.S., University of Texas; M.Ed., Ed.D., Texas A&M University.

- ** COYLE, THOMAS DOUGLAS, Assistant Professor of Health Studies. B.S., North Texas State University; M.S., Ph.D., Texas Woman's University.
 - ** CREWS, DEREK, Assistant Professor of Management. B.B.A., M.B.A., University of North Texas; Ph.D., Nova Southeastern University.
 - ** CROSSLIN, KATIE, Assistant Professor of Health Studies. B.S., M.S.Ed., Baylor University; Ph.D., Texas Woman's University.
 - ** CSIZA, LINDA, Assistant Professor of Physical Therapy. B.S., Texas Woman's University; M.S., Ph.D., Rocky Mountain University of Health Professions.
 - ** CURRY, EVELYN, Assistant Professor of Library and Information Studies. B.A., Prairie View A & M University; M.A., University of Wisconsin; Ph.D., University of Illinois.
- CURTIS, SANDRA, Assistant Clinical Professor of Communication Sciences and Disorders. B.S., East Carolina University; M.A., University of Alabama.
- * DAVIDSON, HARRIETT ANN, Associate Professor of Occupational Therapy. B.A., B.S., Texas Woman's University; M.A., University of Southern California.
 - * DAVIS, RON W., Professor of Kinesiology. B.S., University of Wisconsin at Oshkosh; M.S., University of Wisconsin at LaCrosse; Ph.D., Texas Woman's University.
 - * DELLO STRITTO, RITA, Associate Professor of Nursing. B.S., Texas Woman's University; M.S.N., University of Texas Health Sciences Center at Houston; Ph.D., Texas Woman's University.
 - * DEMUYNCK, MARIE-ANNE, Professor of Computer Science. B.A., M.A., Catholic University of Leuven; M.S., Texas Woman's University; Ph.D., University of North Texas.
 - * DeORNELLAS, KATHY, Associate Professor of Psychology. B.F.A., Stephen F. Austin State University; M.Ed., University of North Texas; Ph.D., Texas Woman's University.
 - * DiMARCO, NANCY, Professor of Nutrition and Food Sciences. B.S., University of Colorado; M.S., Ph.D., Iowa State University.

- * DRAGOO, SHERI L., Associate Professor of Fashion and Textiles. B.S., Christian Heritage College; M.S., Ph.D., Texas Tech University.
 - * DRISCOLL, PATRICIA, Professor of Health Systems Management. B.S., Incarnate Word; M.S., Texas Woman's University; J.D., Southern Methodist University.
 - * DUNLAP, KAREN, Associate Professor of Teacher Education. B.S., M.S., Stephen F. Austin State University; Ed.D., University of Texas at El Paso.
 - * EDWARDS, DONALD, Professor of Mathematics and Computer Science; Chair of the Department of Mathematics and Computer Science; Senior Associate Dean of the College of Arts and Sciences. B.A., M.S., University of North Texas; Ph.D., Texas Christian University.
 - * ELEWEKE, JONAH, Assistant Professor of Communication Sciences and Disorders. B.Ed., M.Ed., University of Jos, Nigeria; M.S., Ph.D., University of Manchester, England; Ph.D., University of Alberta, Canada.
 - * ENGELBRECHT, JO ANN, Professor of Family Sciences; Director of Research and Sponsored Programs. B.S., M.S., Ph.D., Oklahoma State University.
- ENRIGHT, CARISSA, Associate Clinical Professor of Nursing. B.S., Duke University; M.S., Boston University.
- ** ESPINOSA, JAMES M., Associate Professor of Physics. B.S., California Institute of Technology; M.S., Ph.D., University of California.
 - * EVETTS, CYNTHIA L., Associate Professor of Occupational Therapy; Associate Director of the School of Occupational Therapy, Denton. B.S., Texas A&M; M.O.T., Ph.D., Texas Woman's University.
 - ** FANNING, SARAC., Assistant Professor of History. B.A., University of Texas at Austin; M.A., National University of Ireland, Galway; Ph.D., University of Texas at Austin.
 - * FITCH, JENELLE, Assistant Professor of Psychology. B.A., Kent State University; M.A., Ball State University; Ph.D., Purdue University.

FLETCHER, TINA S., Assistant Professor of Occupational Therapy. B.S., University of Texas Medical Branch at Galveston; B.F.A., East Texas State University; M.A., University of Alabama; M.F.A., Texas A&M University – Commerce.

* FOSTER, JANET G., Associate Professor of Nursing. B.S., University of Michigan; M.S., University of Texas Health Science Center at Houston; Ph.D., University of Texas.

** FOSTER, KENNETH, Associate Professor of Psychology. B.A., M.A., M.Phil., Ph.D., City University of New York.

* FREDRICKSON, REBECCA, Assistant Professor of Teacher Education. B.A., Stephen F. Austin State University; M.E., University of Texas at Tyler; Ph.D., Stephen F. Austin State University.

* FRENCH, RONALD, Cornaro Professor of Kinesiology. B.S., M.A., Humbolt State College; Ed.D., University of California, Los Angeles.

** FREYSTEINSON, WYONA, Assistant Professor of Nursing. B.S.N., M.N., University of Saskatchewan; Ph.D., Texas Woman's University.

FRIED, NEIL, Assistant Clinical Professor of Nursing. B.S., Florida State University; M.S., University of Alabama.

* FUCHS, JORDAN, Assistant Professor of Dance. B.A., Oberlin College; M.F.A., The Ohio State University.

GALATAS, LAURIE, Associate Clinical Professor of Nursing. B.S.N., M.N., Louisiana State University.

* GAMBLIN, SARAH, Associate Professor of Dance. B.F.A., Ohio University; M.F.A., University of Washington.

* GILL, CYNTHIA B., Professor of Communication Sciences and Disorders. B.S., M.Ed., Southwest Texas State University; Ed.D., East Texas State University.

GILL, JACK T., Professor of Chemistry. B.S., Ph.D., Mississippi State University.

* GILLUM, NERISSA LEBLANC, Associate Professor of Family Sciences. B.S., Ambassador University; M.S., University of North Texas; Ph.D., University of North Carolina at Greensboro.

- * GLEESON, PEGGY, Professor of Physical Therapy; Associate Director of the School of Physical Therapy, Houston. B.S., Saint Louis University; M.S., Ph.D., Texas Woman's University.
- * GOLDEN, JANINE, Assistant Professor of Library and Information Studies. B.S., St. Francis College; M.Ed., The Pennsylvania State University; M.L.S., Indiana University; Ph.D., University of Pittsburgh.
- ** GOLMAN, MANDY, Assistant Professor of Health Studies. B.A., University of Texas; M.S., Ph.D., Texas Woman's University.
- * GOODMAN, GERALD R., Professor of Health Care Administration; Program Director of Health Care Administration; B.S., University of Houston; M.S., Southern Methodist University; M.S., Texas Woman's University; Dr.P.H., University of Texas.
- ** GORMAN, RHONDA, Assistant Professor of Drama. B.A., Texas Christian University; M.F.A., Southern Methodist University.
- GOTTLIEB, MICHAEL, Clinical Professor of Psychology. B.A., University of Illinois; M.A., DePaul University; Ph.D., Texas Tech University.
- * GRANT, SUSAN K., Professor of Art. B.S., M.F.A., University of Wisconsin.
- ** GRAY, BARBARA, Assistant Professor of Nursing. B.S.N., Harding University, Arkansas; M.S.N., University of Texas at Arlington.
- * GREEN, LAURA, Assistant Professor of Communication Sciences and Disorders. B.S., Stephen F. Austin State University; M.A., University of Houston; Ph.D., University of Washington.
- * GREEN, MARY SUE, Assistant Professor of Family Sciences. B.A., Briar Cliff University; M.S., Ph.D., Iowa State University.
- * GREER, RUSSELL A., Associate Professor of English. A.B.J, University of Georgia; A.L.M, Harvard University; Ph.D., University of Georgia.
- * GREGORY, DIANE, Associate Professor of Art. B.S.Ed., M.Ed., Ph.D., University of Missouri-Columbia.
- * GRIGORIEVA, ELLINA, Professor of Mathematics. B.S., Moscow State Lomonsov University; M.S., Ph.D., Moscow State University.

GULLION, JESSICA, Assistant Professor of Sociology. B.A., Texas Tech University; M.A., Texas State University; Ph.D., Texas Woman's University.

- * HAAG, CLAUDIA, Associate Professor of Reading. B.S., M.A., Ph.D., Texas Woman's University.
- * HADSELL, NANCY, Professor of Music. B.A., M.M.E., University of Georgia; Ph.D., University of Kansas.

HALEY, SHEILA, Assistant Clinical Professor of Nursing. B.S., Chicago State University; M.S., University of Phoenix.

- * HAMNER, MARK, Associate Professor of Mathematics; Assistant Provost, Institutional Research and Data Management. B.A., University of Texas at Austin; M.S., Ph.D., Baylor University.
- * HANSEN-THOMAS, HOLLY, Associate Professor of Teacher Education. B.A., University of Texas at Austin; M.A., Ph.D., University of Texas at San Antonio.
- * HANSON, LAURA K., Assistant Professor of Biology. B.S., University of Washington; Ph.D., Cornell University.

HARDING, BRIAN, Associate Professor of Philosophy. B.A., University of Dallas; M.A., Ph.D., Fordham University.

HARNISH, SHERRILL, Associate Clinical Professor of Occupational Therapy. B.S., State University of New York, Buffalo; M.A., Texas Woman's University.

HARRIS, JEFF, Associate Professor of Psychology. B.A., DePauw University; M.A., Southern Illinois University at Carbondale; Ph.D., The Ohio State University.

- ** HART, CHRISTIAN, Associate Professor of Psychology. B.A., University of North Texas; M.S., Ph.D., Texas Christian University.

HAYNES, HEATHER, Assistant Professor of Teacher Education. B.A., M.A.T., Trinity University; Ph.D., University of Kansas.

** HAYS, EDITH, Senior Lecturer in Mathematics. B.B.A., Southern Methodist University; M.S., Texas Woman's University.

HAYS, MICHELLE, Associate Professor of Art; Chair of the Department of Visual Arts. B.A., Point Loma Nazarene University; M.F.A., Rhode Island School of Design.

HENNIGAN, M., Assistant Clinical Professor of Occupational Therapy. B.A., Dominican University; M.B.A.; University of Dallas; M.O.T., Texas Woman's University.

* HERNANDEZ, JOHNNANNA, Assistant Professor of Nursing. B.S.N., M.S.N., Texas Tech University of Health Sciences School of Nursing; Ph.D., Texas Woman's University.

* HERSCH, GAYLE I., Professor of Occupational Therapy. B.S., Indiana University School of Medicine; M.S., Indiana University School of Education; Ph.D., Indiana University School of Education.

** HO, TUONG-VI V., Associate Clinical Professor of Nursing. B.S., M.S., University of Texas Health Science Center; Ph.D., Texas Woman's University.

HODGES, LYBETH, Professor of History and Government. B.S., University of North Texas; M.A., Texas Woman's University; Ph.D., Texas Tech.

** HOFFMAN, GRETCHEN, Assistant Professor of Library and Information Studies. B.A., University of Nevada, Reno; M.L.S., Ph.D., Emporia State University.

HOGAN, D. TURNER, Associate Professor of Mathematics. B.A., Hendrix College; M.A., Ph.D., University of Arkansas.

* HOLDEN-HUCHTON, PATRICIA, Professor of Nursing; Dean of the College of Nursing. B.S.N., Mary Hardin-Baylor College; M.S., Texas Woman's University; D.S.N., University of Alabama at Birmingham.

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Cornaro Professors

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.

1978	ETHELYN DAVIS, Ph.D., Professor and Chair of the Department of Sociology and Social Work
1979	A. ELIZABETH TAYLOR, Ph.D., Piper Professor of History and Government
1980	AILEENE LOCKHART, D.Sc., Ph.D., Piper Professor of Dance and Professor of Physical Education
1981	JOHN W. McFARLAND, Ed.D., Professor of Counselor Education and Personnel Services.
1982	CLIFTON T. SPARKS, Ph.D., Professor of Counselor Education and Personnel Services; Dean of the College of Education.
1983	CLARICE GARRETT, Ph.D., Professor of Fashion and Textiles.
1984	ROBERT FUERST, Ph.D., Professor of Biology
1985	LAVON B. FULWILER, Ph.D., Professor of English
1986	ROSE SPICOLA, Ph.D., Professor of Reading and Bilingual Education.
1988	JANE MOTT, Ph.D., Professor of Physical Education
1989	JOHN CHRISTY, Ph.D., Professor of Mathematics
1990	PAUL E. THETFORD, Ph.D., Professor of Psychology
1991	MONA S. HERSH-COCHRAN, Ph.D., Professor of Economics
1992	GEORGE H. STEWART, Ph.D., Professor of Chemistry
1993	MARTHA H. SWAIN, Ph.D., Professor of History
1994	TURNER KOBLE, Ph.D., Professor of English
1995	BETTYE B. MYERS, Ph.D., Professor of Kinesiology
1996	JUDITH McFARLANE, D.P.H., Professor of Nursing
1997	BETTY B. ALFORD, Ph.D., Professor of Nutrition
1998	MARGARET M. GRIFFIN, Ed.D., Professor of Reading and Bilingual Education

1999	LYNDA UPHOUSE, Ph.D., Professor of Biology
2000	DELAINE WALKER-BATSON, Ph.D., Professor of Communication Sciences and Disorders
2001	BILLIE J. ASKEW, Ph.D., Professor of Reading
2002	GLEN JENNINGS, Ed.D., Professor of Family Sciences
2003	VALENTINE J. BELFIGLIO, Ph.D., Professor of History and Government
2004	JAMES JOHNSON, Ph.D., Professor of Chemistry
2005	RONALD FRENCH, Ph.D., Professor of Kinesiology
2006	SUSAN CHANEY, Ph.D., Professor of Nursing
2007	WILLIAM B. CISELL, Ph.D., Professor of Health Studies
2008	JIM ALEXANDER, Ph.D., Professor of History and Government
2009	MICHAEL WIEBE, Ph.D., Professor of Teacher Education
2010	PHYLLIS BRIDGES, Ph.D., Professor of English
2011	PENELOPE HANSTEIN, Ph.D., Professor of Dance
2012	PAULA ANN HUGHES, Ph.D., Professor of Business and Economics

Emeritus Faculty

The Emeritus Faculty of Texas Woman's University are a valued and treasured resource, and they represent the rich history of the university. Find a listing of the Emeritus Faculty on the TWU website at: www.twu.edu/academic-affairs/emeritus.pdf.

Abbreviations

ART	Visual Arts
BACT	Bacteriology
BIOL	Biology
BUS	Business
CHEM	Chemistry
COMS	Communication Sciences and Disorders
CSCI	Computer Science
DNCE	Dance
DRAM	Drama
ECO	Economics
EDBE	Education/Bilingual
EDSP	Education/Special
ELDR	Education/Administration
EDUC	Education
ENG	English
FL	Foreign Languages
FS	Family Sciences
GOV	Government
HCA	Health Care Administration
HSM	Health Systems Management
HIST	History
HS	Health Studies
KINS	Kinesiology
LS	Library Science
MATH	Mathematics
MU	Music
NFS	Nutrition and Food Sciences
NURS	Nursing
OT	Occupational Therapy
PHIL	Philosophy
PHYS	Physics
PSY	Psychology
PT	Physical Therapy
READ	Reading
SCI	Science
SOCI	Sociology
WS	Women's Studies
ZOOL	Zoology

Buildings

ACT	Administration Conference Tower
ADM	Admissions Building
ART	Art Building
ASB	Arts and Sciences Building
ASSC	Ann Stuart Science Complex
BHL	Blagg-Huey Library
CFO	Classroom and Faculty Office Building
DGL	Dance, Gymnastics, and Human Performance Laboratories
GRB	Graduate Research Building
HDB	Human Development Building
INSD	Institute of Health Sciences – Dallas Center
IHSH	Institute of Health Sciences – Houston Center
MCL	Multipurpose Classroom-Laboratory Building
MJPH	Margo Jones Performance Hall
MUS	Music Building
OMB	Old Main Building
PB	Patio Building
PH	Pioneer Hall
RBD	Redbud Theater Complex
SH	Stoddard Hall
ULB	Undergraduate Laboratory Building

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