

Texas Woman's University

Graduate Catalog 2008-2010

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 2008-2009 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 except as provided by law. The University complies with nondiscrimination regulations under Title VI and Title VII, Civil Rights Acts of 1964; Title IX, Education Amendments of 1972; Vietnam Era Veterans' Readjustment Assistance Act of 1972; Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990; the Age Discrimination Act of 1973; and other applicable statutes. Inquiries concerning University grievance procedures may be directed to the designated officials named below:

- 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 Coordinator of Disability Support Services, P.O. Box 425966, Texas Woman's University, Denton, TX 76204.

Board of Regents

HARRY L. CRUMPACKER II, Plano, Chair/Presiding Officer

VIRGINIA CHANDLER DYKES, Dallas

WILLIAM H. FLEMMING III, Houston

P. MIKE McCULLOUGH, Dallas

CECILIA MAY MORENO, Laredo

SCARLETT POPE, Grapevine, Student Regent

TEGWIN ANN PULLEY, Dallas

LOU HALSELL RODENBERGER, Baird

GEORGE R. SCHRADER, Dallas

SHARON VENABLE, Dallas

Officers of Administration

The University

ANN STUART, Ph.D., Chancellor and President

KAY CLAYTON, 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

BILL PALMERTREE, M.S., Vice President for Information Services

JOHN E. LAWHON, J.D., General Counsel

The Graduate School

JENNIFER MARTIN, Ph.D., 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			
Art			
Art *	BA, BFA	MA, MFA	
Art History			
Graphic Design			
Clay			
Painting			
Photography			
Sculpture			
Biology			
Biology *	BA, BS	MS	
Biology Teaching		MS	
Medical Technology	BS		
Molecular Biology			PhD
Chemistry & Physics			
Biochemistry	BS		
Chemistry *	BS	MS	
Chemistry Teaching		MS	
Science Teaching		MS	
Dance			
Dance *	BA	MA, MFA	PhD
English-Speech-Foreign Languages			
English *	BA	MA	
Rhetoric			PhD
Fashion and Textiles			
Fashion Design	BA, BS		
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	MA, MS	
Mathematics Teaching		MS	
Music & Drama			
Drama *	BA, BS	MA	
Music *	BA, BS	MA	
Music Therapy	BS		
Psychology & Philosophy			
Psychology *	BA, BS		
Counseling Psychology		MA	PhD
School Psychology		SSP	PhD
Sociology & Social Work			
Sociology *	BA, BS	MA	PhD
Social Work	BSW		continued...

8 Degrees Offered

<i>Dept/Program</i>	<i>Bachelor's</i>	<i>Master's</i>	<i>Doctoral</i>
Women's Studies		MA	
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	BA		
Health Care Administration		MHA	
Health Studies			
Health Studies	BAS, BS	MS	PhD, EdD ▲
Kinesiology			
Exercise & Sports Nutrition		MS	
Kinesiology *	BS	MS	PhD ▲
Nutrition & Food Sciences			
Culinary Science and Food Service Mgmt	BAS		
Dietetics and Institutional Administration	BS		
Food and Nutrition in Bus. and Industry	BS		
Food Science		MS	
Food Systems Administration		MS	▲
Nutrition	BS	MS	PhD
COLLEGE OF PROFESSIONAL EDUCATION			
Family Sciences			
Child Development	BS	MS	PhD
Counseling & Development		MS	
Early Childhood Education		MS, MA, MED	EdD
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	▲

continued...

▲ Denotes Distance Learning degree available

*Teacher certification available

Dept/Program	Bachelor's	Master's	Doctoral
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		MS	DPT, PhD
Pre-Physical Therapy	BS in fields listed below		
Human Biology			
Kinesiology			
Nutrition			
Psychology			
COLLEGE OF NURSING			
Nursing	BS	MS	
Nursing Practice			DNP
Nursing Science			PhD ▲
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.

TWU is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097, 404-679-4500) to award baccalaureate, master's, and doctoral degrees. 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.

Academic Mission Statement

Texas Woman's University is a notable institution, primarily for women, dedicated to excellence through academic achievement, research and creativity, innovation and collaboration and committed to fiscal accountability.

TWU's academic and social environment empowers students by inspiring intellectual curiosity and lifelong learning, embracing scholarship and research, developing leadership and personal responsibility, and promoting diversity and respect for all individuals.

TWU educates students to succeed as they pursue careers, research or graduate study in the liberal arts and sciences, health, education, and business professions. By setting high expectations and high ideals, TWU prepares its graduates to lead personally and professionally fulfilling lives.

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 950 faculty members and attended by over 12,000 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 governing body of Texas Woman's University is the Board of Regents, comprising nine members appointed by the Governor and confirmed by the Texas Senate. The Board serves only Texas Woman's University. Three members are appointed every two years from the state at large for six-year terms. Statute requires that at least four of the nine members be women. The Governor appoints a tenth non-voting student regent who is not counted in matters related to a quorum and whose service is governed by V.T.C.A., Education Code, Section 51.356.

Accreditation and Approval

Texas Woman's University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097, 404-679-4501) 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 in the United States. 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 Occupational Therapy Education
American Association for Health Education
American Chemical Society
American Dental Association Commission on Dental Accreditation
American Library Association
American Psychological Association
American Speech-Language-Hearing Association Educational Standards Board
Board of Nurse Examiners for the State of Texas
Commission on Accreditation for Dietetics Education of the American Dietetics Association
Commission on Accreditation of Healthcare Management Education
Commission on the Accreditation of Physical Therapy Education
Commission on Collegiate Nursing Education
Council on Accreditation of Counseling and Related Education 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 is housed in the historic and newly refurbished Alumni House, located just off University Avenue near Guinn Hall and The Little Chapel-in-the-Woods. The 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

PO BOX 425725

Denton, TX 76204-5725

www.twu.edu/alumni

Anne Scott, Director of Alumni Relations

940-898-2886

AScott2@twu.edu

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, Texas 76204-5618; phone (940) 898-3878. For more information, please visit www.twu.edu/foundation.

International 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 Programs are offered on both the undergraduate and graduate levels in selected major areas. Traditionally, the programs are offered during the summer, 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 of International Education.

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, Food and Fibers Research Council of the 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: <http://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) 898-2952.)

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 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.

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 <http://www.sreb.org/programs/acm/acmindex.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. Affiliate members include the University of Texas at Arlington, the University of Texas at Dallas, and the Dallas County Community College District. 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 fifteen 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, Early Childhood Education, 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 <http://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. Computer systems and microcomputers may be used for statistical analyses, word processing, or other computer processing needs. Students also have access to electronic mail and the resources of the Internet, including online course tools.

Computing labs on the Denton campus, the Houston Center, and the two sites of the Dallas Center provide both microcomputer and data storage capability. Online resources are available through the TWU Pioneer Portal at www.twu.edu. Further information regarding access to these systems and other computer services available can be obtained at these lab locations or by contacting the Information Technology Help Desk at (940) 898-3971.

Campus and Centers

The Denton Campus

The main campus of Texas Woman's University is located in Denton, Texas, a community of over 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.

Other special features of the Denton campus are the "Texas Women: A Celebration of History" exhibit; the Texas First Ladies Historic Costume Collection; and the University Gardens.

A special campus landmark is the Pioneer Woman statue, which was given to TWU in 1938 by the State of Texas in celebration of the Texas centennial.

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

The Dallas Center

As part of its Institute of Health Sciences, the University maintains a Dallas Center that includes sites near Parkland and Presbyterian Hospitals. The Dallas Center offers programs in health systems management, nursing, occupational therapy, and physical therapy. Clinical experiences for students are provided through cooperating medical facilities and agencies, including Parkland Hospital (Dallas County Hospital District), Presbyterian Hospital, Children's Medical Center, and UTSW Hospitals.

Students also have selected experiences in the City of Dallas Health Department, Dallas County Health Department, Visiting Nursing Association of Dallas, the Veterans Affairs Hospital, and other Dallas-Fort Worth facilities. The Center has about 50 faculty members with approximately 1,000 students enrolled.

Parkland Site

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

Presbyterian Hospital Site

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

The Houston Center

TWU's Houston Center, established in 1960, is located in a new \$37-million urban campus in the Texas Medical Center, a world-renowned 675-acre complex of hospitals, health-related schools, and research institutions. The Houston Center, which has about 60 faculty members and over 1200 students, offers clinical and educational opportunities for students in nursing, occupational therapy, physical therapy, healthcare administration, and nutrition and food sciences. Facilities at the Center include research laboratories in biochemistry, nutrition, and occupational and physical therapy; anatomy and nursing laboratories; counseling center; 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.

University Library

The TWU Libraries provide global information services, education, and resources for teaching, learning, and research to prepare students for success in their professional and personal lives. Library staff teach research skills and offer library instruction in the classroom, in the library and over the web. The Mary Evelyn Blagg-Huey Library in Denton, and satellite collections in Dallas, have holdings of 500,000 print volumes and 105,000 e-book volumes; 959,750 units in microform, 35,419 print and electronic subscriptions; and 175 on-line databases offering access to thousands of full-text/full image articles. The Library's electronic resources are available through Internet access to students wherever they are located.

Special collections within the library include the Woman's Collection, one of the four largest collections about women in the United States, the University Archives, and the Cookbook Collection. The Woman's Collection includes 4,500 linear feet of manuscript collections, 45,000 books, almost 1,900 women's periodical titles in paper and microform, 20,000 photographs, and 100 microform collections on women. 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 Texas Association of Women's Clubs, and the historic federation of clubs founded by African American women in Texas. 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. The WASP Photo Digital Collection, with almost 2,000 scanned images, is available through the Library's on-line catalog. Information regarding the Woman's Collection and the Cookbook Collection is available in the Library's web pages: www.twu.edu/library/collections.htm.

Satellite collections are located at the Dallas Parkland site (the major nursing collection in the Dallas-Fort Worth area) and at the Dallas Presbyterian Hospital site. Houston students have access to the services and collections of the Houston Academy of Medicine-Texas Medical Center Library and to all TWU on-line resources.

In addition to the multiple resources of the Texas Woman's University Libraries, students and faculty have checking privileges at participating member libraries in the statewide TexShare Program. Instant telecommunication and daily courier service are used to locate and deliver journal articles, books, and films throughout Texas libraries. The Texas Woman's University Libraries are also connected via the Internet through OCLC, Inc., in Columbus, Ohio with major academic and research libraries throughout the world for interlibrary borrowing and lending.

Distance Education

For years, TWU has served off-campus constituents by providing instructors who traveled to off-campus sites. While continuing to serve students in this way, the University now uses a variety of instructional technologies to provide synchronous and asynchronous learning opportunities for on-campus students as well as those at a distance. The use of instructional technologies will play an increasingly prominent role in the University's attempt to provide just-in-time learning to students at off-campus locations, such as the workplace and the home. Courses delivered in nontraditional, distance education formats may change or even eliminate student involvement on campus, depending on the particular delivery method for each course. This extensive use of technology makes possible exciting new pedagogical approaches and enhancements.

A variable distance education fee ranging from \$12 / semester hour to \$300.00 / course will be assessed to all students who enroll in distance education courses.

Information about these emerging programs is available on TWU's website (<http://www.twu.edu>) as well as the TWU online website (<http://www.twuonline.com>).

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 http://www.twu.edu/dl/Prospective_Students/computer_reqs.htm 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.

Financial Information

COST OF ATTENDANCE

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

Tuition (Subject to Change)

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

Graduate

Resident (in-state) students, 2008-2009	\$198.00 per semester hour*
Nonresident (out-of-state and foreign) students ..	\$479.00 per semester hour*

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

Nonresident Classification for Tuition. Title 3 of the Texas Education Code specifies that out-of-state residents who come to Texas for the primary purpose of furthering their education will be classified as nonresident students. Persons enrolled for more than six semester hours during any long semester are considered nonresident students. Persons classified as nonresident students upon first enrollment at Texas Woman’s University are presumed to be nonresidents for the period during which they continue as students. To petition for residency reclassification, the student must complete the Residency Questionnaire and submit it to the Office of the Registrar with appropriate documentation prior to the beginning of the semester.

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

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

Veterans Administration Benefits. Texas Woman's University honors the Montgomery G.I. Bill and dependent benefits. Benefit recipients are expected to remain in Academic Good Standing as defined in this catalog to be eligible for benefits. Students should contact the Registrar's Office for applications and other forms. Hazlewood recipients should contact the Bursar'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, 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, providing 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 III terms; \$37.50 for the summer I, summer II or \$18.75 for MayMester terms.

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

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

International Education Fee. A \$1.00 international education fee will be charged to all students who enroll. Funds collected under this fee will be used in assisting students participating in TWU international or exchange programs.

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

Library Access Fee. A library access fee of \$50.00 per semester will be assessed all students who enroll for the fall, spring, or summer III. A \$25.00 fee will be charged to all students who register during a summer I or summer II or May-Mester term.

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

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

Student Union Fee. A student union fee of \$32.00 will be charged to all students who register during the fall, spring, or summer III semesters; \$16.00 will be charged to all students who register during a summer I or summer II term, or \$8.00 for a May-Mester term. The student center fee finances the Office of the Director of the Student Center and the maintenance of the student center areas on each campus.

Student Identification Card. A \$11.00 non-refundable fee to cover the cost of the student identification card is required of all students who register for each fall semester, spring semester, and summer I, summer II, and summer III or May-Mester term.

Student Services Fee. The student services fee is charged based on semester credit hours. For all semesters the fee is charged at a rate of \$26.40 per semester credit hour not to exceed the following **maximums**:

\$211.20 per semester during the fall and spring semesters or summer III

\$105.60 for summer I or summer II terms

\$52.80 for May-Mester term

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

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 \$5.00 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 \$5.00 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). 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 Portal by accessing the Pioneer Portal>Web Advisor>Pay Online and selecting the appropriate semester plan under “View Plans” at the bottom 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 above-stated due dates will be charged a delinquent fee of \$15.00 for each payment that is delinquent.
- The student will not receive course credit if full payment is not made prior to the end of the semester.

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

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

Prior to the first class day: A non-refundable \$15.00 matriculation fee will be assessed.	
Prior to the first class day of the semester	100%*
During the first five class days of the semester	80%
During the second five class days of the semester	70%
During the third five class days of the semester	50%
During the fourth five class days of the semester	25%
After the fourth five class days of the semester	None

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

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

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

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

The following schedule determines the refunds for tuition and fees upon withdrawal from the University during any May-Mester session:

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

Prior to the 1st class day of the session	100%*
During the 1st class day of the session	80%
During the 2nd class day of the session	50%

*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 Student Financial Aid which provides financial assistance to qualified students. Aid may be awarded in the form of work, grants, loans, assistantships, or 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 1
Summer Financial Aid	March 1
Fall/Spring Financial Aid	April 1
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 Financial Aid Office for re-evaluation of the applicant's maximum eligibility period. For more information, contact the Office of Student Financial Aid, Texas Woman's University, P.O. Box 425408, Denton, Texas 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 or from the head of the academic component in which the applicant will study. Application and supporting documents, including official transcripts, verification of graduate status, and letters of reference, must be filed with the head of the academic component for review and recommendation. All applications and recommendations from the head of the academic component should be on file with the Graduate School no later than June 1 for the succeeding academic year and no later than April 1 for the succeeding summer session.

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.

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 at the Office of the Director of Student Financial Aid, Box 425408, Texas Woman's University, Denton, Texas 76204-5408, or 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 by submitting a completed TWU Scholarship Application to the Financial Aid Office by the deadline of March 1.

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 Student 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 Brocker Endowed Scholarship: Established by Lewis W. Brocker in memory of his daughter, Sharon Loretta Brocker, 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 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.

Johnie Christian Endowed Scholarship: Established through the will of Dr. Johnie 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 1.

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 the 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 1.

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 1.

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 Financial Aid Office.

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 give approval for 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 the 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 B 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, Texas, 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 the 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 Physics.

Nora Edna Manning Scholarship Endowment: Established by Dr. Mary Evelyn Blagg Huey to support scholarships within the School of Fine 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 Fine 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 B or above and show financial need. Both undergraduate

and graduate students may receive this scholarship. Priority will be given first to students in Textiles and Clothing and secondly to those studying Fashion Design or 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, Texas, 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, 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 Bettye 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 financial 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 Uhler Endowed Fellowship for Higher Education Administration Fund: Established by G. Ann Uhler. This fund provides annual support for a fellowship in higher education administration to a TWU academic administrator, faculty member or student. The committee will be comprised of a dean, department chair and faculty member, each committee member representing a different college or school of the university. Terms shall be staggered. In the first year of the committee, the dean shall be named to a three-year term, the chair to a two-year term, and the faculty member to a one-year term to begin the rotation.

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 Student 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, textiles, 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, who have a good scholastic standing and who 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 for at least one year following the completion of the course of study in Texas.

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 \$800 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 lan-

guage, 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 Safford Loan, with interest from the date(s) of original disbursement. A 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, write to: Director of Student Financial Aid, Box 425408, Texas Woman’s University, Denton, Texas 76204-5408.

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). Requests for information or application forms should be addressed to Director of Student Financial Aid, Box 425408, Texas Woman’s University, Denton, Texas 76204-5408 (Note: Nursing students are not eligible for this loan program.)

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. Requests for information on application forms should be addressed to Director of Student Financial Aid, Box 425408, Texas Woman’s University, Denton, Texas 76204-5408.

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, Texas. 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.

Federal Stafford Student Loan: This loan is available on the basis of financial need. Graduate students may borrow up to \$8,500 annually to an aggregate of \$65,500. The interest rate is variable not to exceed 9%. Repayment begins six months after the student graduates or ceases to be enrolled for at least six credit hours. Loans under this program are made by commercial lenders such as banks and credit unions. A list of lenders may be obtained by contacting the Financial Aid Office or at www.twu.edu/finaid/.

Unsubsidized Federal 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 \$18,500 minus their Federal Stafford Loan eligibility, annually with an aggregate maximum of \$73,000.

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 the Federal Subsidized Stafford Loan 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.

Requests for information and applications for loans should be made to the Director of Student Financial Aid, Box 425408, Texas Woman's University, Denton, Texas 76204-5408.

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 Student 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. All academic classifications are assigned to each hall with special sections reserved for graduate and non-traditional students.

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 a one semester or academic year basis. 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 nonrefundable 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 three-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 Guinn-Stark Commons, and the CFO kiosk. Contract food service is available at the Houston campus and the Dallas Parkland Center. Denton campus resident students are required to purchase a meal plan unless they reside in one of the on-campus apartments or studio suites. Meal plans are also available for the Denton campus commuter students. For further information on meal plan options, contact the Food Services Administrator, P.O. Box 425380, Denton, Texas 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. 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 Parkland campus library, 214-689-6580. 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. 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 Dallas Parkland and Presbyterian Campuses and in the Houston Centers. Please call the Dallas Center 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, a branch of the U.S. Post office, the TWU Bookstore, ATM machines, computer lab, cyber cafe, a game room, and meeting and lounge space. Lockers are available in most academic buildings, and they can be rented in the Student Union office for a semester or an academic year.

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/o-sl/csd), or come by the office located on the first floor of the Student Union.

Campus Activities Board (CAB)

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/o-sl/orientation/GraduateOrientHome/html), 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 House of Representatives.

Student Organization Policies and Qualifications

All student organizations must register and update their files 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 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. A complete guide, the *Student Organization Manual*, of all student organization policies and procedures may be obtained through the Center for Student Development or on the web page (www.twu.edu/o-sl/csd/orgmanual3.html). 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 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 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 ten students;
- 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.

Community Outreach

The Center for Student Development maintains a comprehensive list of local and area community service agencies to assist individuals or groups interested in becoming involved in community service projects. This service is available to all students, faculty, and staff at Texas Woman's University. In addition, the Center for Student Development plans an alternative spring break as well as other trips for community service projects.

Intercollegiate Athletics

Texas Woman's University continues to be a leader in founding and developing programs for women's athletics in the United States. Texas Woman's University 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. As members of the NCAA and the Lone Star Conference, student-athletes are provided with the opportunity to compete in an extensive schedule of home and away events as well as invitational, state, regional, and national tournaments. Sports available are basketball, gymnastics, soccer, softball, and volleyball.

For additional information concerning TWU athletics programs, contact the Director, Intercollegiate Athletics, Texas Woman's University, Box 425349 Denton, Texas 76204-5349, call 940/898-2378, or send e-mail to athletics@twu.edu.

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. OIS serves all students registered at TWU. Services include the Cultural Connections Conference Series,

which are designed to enhance leadership skills and cultural appreciation across all cultures, and Advising Program for freshmen and transfer students, cultural awareness workshops, cultural celebrations and activities, and support for multicultural student organizations. Other resources include the Multicultural Resource Library, with more than 300 books, and Go Centers. OIS is located in Jones Hall, room 200, (940) 898-3679, intercultural@twu.edu, www.twu.edu/o-si/intercultural. Hours of operation are M-F, 8 a.m. to 5 p.m.

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 <http://www.twu.edu/o-sl/>.

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 and counselors 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.

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 at the Parkland campus. At the Presbyterian campus, students may call 214-706-2416. In Houston, students 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/o-sl/counseling.

Disability Support Services

The office of Disability Support Services, located on the first floor of the CFO Building on the Denton campus, acts as the liaison for students with disabilities attending Texas Woman's University. It serves as an intermediary between the students and the University on academic as well as accessibility issues. In addition, the office is equipped with a Telecommunications Device for the Deaf (TDD).

It is important that students requesting services fill out a registration form and provide the office with verification of their disabilities. Once registered, students are eligible to receive services offered through the University. The office of Disability Support Services will assist students with disabilities in the following areas:

1. Work with students who have disabilities, the Americans with Disabilities Act Committee, and University staff on campus with regard to a variety of issues including classroom accessibility problems (i.e., moving classes to accessible locations).
2. Assist in the location of readers, notetakers, and interpreters.
3. Provide access to auditory assistive devices such as a Telecommunications Device for the Deaf (TDD) or an Auditory Trainer.
4. Intercede on the student's behalf concerning problems with faculty.
5. Work with the student, the professor, and the Learning Assistance Office to provide testing accommodations.
6. Act as a referral source for requested services.
7. Provide application information for taped books, large print books, and four-track tape recorder loans.
8. Provide carbonless paper for notetaking.

Once students have registered with the office, they are encouraged to discuss the adaptations they require with each professor. At the student's request, this office will provide information for professors about the characteristics of the student's specific disabilities.

In order to obtain requested services, it is important to register with the office of Disability Support Services as early as possible. Even if students do not believe they will require services in the upcoming semester, registration is still recommended in case their situations should change.

Residence hall rooms can be modified as needed to accommodate students with disabilities. Students needing housing accommodations should contact the Housing Department as soon as possible.

All TWU students parking on campus must purchase a TWU parking permit. Those students with state-issued handicapped designations may park in any designated accessible parking space on campus.

Students with disabilities at the Dallas and Houston Centers may receive assistance with accommodations from the Denton office.

Student Health Services

The Texas Woman's University Student Health Services is centrally located in the heart of the TWU campus in the lower level of Hubbard Hall at 305 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 the student may realize, to their fullest, the educational opportunities afforded by the University.

Fees are accessed 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. The University maintains a pharmaceutical service with a part-time pharmacist available to fill prescriptions from Student Health Services or from private physicians.

For more information regarding healthcare for TWU students, please visit www.twu.edu/o-sl/shs.

Health Care – Houston

Students can 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 can access medical care at the Parkland and Presbyterian Centers through the Corporate Health Management Clinic in Dallas. For information on location and hours of operation, contact the Corporate Health Clinic at 214-361-0995 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. 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 and students majoring in Physical Therapy are required to have health insurance coverage as a condition of admission.

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.**

All new international students are required to be screened for tuberculosis. This 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 TB chest clearance form and 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.

Career Services

Career Services Department provides a number of programs to educate, develop and assist 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/o-cs 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/o-cs/stuemp.html. Career information days 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/o-cs.

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/o-cs/stuemp.html.

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 in Dallas at the Parkland Center may obtain their forms in FPH 101; students at the Presbyterian Center may obtain their forms in DPB 25; and students at the Houston Center may obtain their forms in IHSH 1300C.

Off-campus positions are posted on the Career Services Student Employment website at www.twu.edu/o-cs/stuemp.html. 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.

TWU Fitness and Recreation

TWU Fitness and Recreation provides a full-service fitness center and recreational programming to the University. Facilities that students may access with their ID cards include a full-service fitness center in Jones Hall, group exercise classes, fitness programming, open recreation, indoor and outdoor swimming pools, racquetball courts, tennis courts, and an indoor track. 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, and personal training. For more information, visit the Fitness Center in Jones Hall (940-898-2900) or visit Fitness and Recreation's 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 Parkland (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, Box 425796, Texas Woman's University, Denton, Texas 76204-3796, or call (940) 898-2888.

Speech-Language-Hearing Clinic

The TWU Speech-Language-Hearing Clinic serves both children and adults of the University and North Texas community who need therapeutic or evaluation services in the areas of speech, language, feeding, or hearing disorders. Individualized services are provided at reduced rates in the out-patient clinic.

The Clinic also serves as a laboratory for graduate students in the Department of Communication Sciences and Disorders. Coupled with practicum facilities in the Dallas and Fort Worth area, the Clinic serves to enrich students' learning opportunities in the area of communication disorders.

For applications or further information about the Clinic, write TWU Speech-Language-Hearing Clinic at P.O. Box 425737, Denton, Texas 76204-5737, or call (940) 898-2285.

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 on the TWU campus, Human Development Building, Room 114.

Other Aid

Persons needing assistance from the Texas Rehabilitation Commission should contact the Commission by calling (940) 383-1521 or by writing 1213 N. Locust, Denton, Texas 76201, at least three months prior to enrollment.

Consumer Information

Information concerning the graduation rate of full-time graduate degree seeking students may be obtained by contacting the Office of Institutional Effectiveness and Research, P.O. Box 425765, Denton, TX 76204-5765; or online: <http://www.twu.edu/irp/factbook/retpub.pdf>.

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.html>.

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: <http://www.twu.edu/o-sl/studentlifeoffice>.

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: <http://www.twu.edu/o-sl/studentlifeoffice>.

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: <http://www.twu.edu/o-sl/studentlifeoffice>.

Graduate School

Jennifer 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 or 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.

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/admissions/graduate/degereeq.htm.

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 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 an 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/forms.htm.

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 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 degree from an accredited United States college or university.
3. Students who are recommended by the Department Chair or Dean for provisional admission because of excellent academic credentials and a minimum TOEFL score of 61 (iBT), 500 (paper-based), or 173 (computer-based). These students will be required to complete with a grade of B or better specific courses in intensive English (6-9 credit hours) for academic credit during their first year at the University. If they are unsuccessful they must fulfill the standard English proficiency requirement for admission or withdraw from the 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, New Jersey 08540, U.S.A.

Application deadlines for all international students on nonimmigrant visas are April 1 for the fall semester; August 1 for the spring semester; and January 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 foreign 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.

1. *Degree study*: This status identifies students seeking either a master's or doctor's 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 regularly 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 or if the program has reached the limits of its enrollment.

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, \$30 processing fee, and an official transcript showing the bachelor's degree or highest degree held must be filed with the Office of Student Records Processing. International students must submit 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 grade points as credit hours.
Grade B:	3 times as many grade points as credit hours.
Grade C:	2 times as many grade points as credit hours.
Grade D:	1 time as many grade points as credit hours.
Grade F:	No grade points. Credit hours are counted; thus the grade is punitive.
Grade W:	No grade points.
Grade WF:	No grade points. Credit hours are counted; thus the grade is punitive.
Grade I:	No grade points
Grade CR:	Credit for hours earned, but no grade points.
Grade PR:	No hours or grade points.
Grade X:	No grade points, non-punitive
Grade NG:	No grade points

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

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

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

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

Under the conditions above, the student may petition the instructor for time beyond the end of the semester/term to finish the course work. The instructor, the student, and the department chair (or equivalent) of the academic department in which the course is offered must 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, teta-

nus/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 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.

Policy on Academic Review and Appeal Procedures in the Graduate School of Texas Woman's University

The review procedures outlined below are those which regularly apply to all graduate students who seek review within the University. The Texas Woman's University has traditionally guaranteed students every opportunity for a fair, prompt, and thorough review of grievances. It is the intention of the University to provide

adequate internal review. It is the expectation of the University that students will follow the appeal procedure to completion before seeking external consideration of complaints. Questions concerning academic achievement and progress are addressed for initial consideration to the student's current committee, either advisory or research.

Decisions of the student's committee may be reviewed by an *ad hoc* committee within the academic component and/or an *ad hoc* committee of the Graduate Faculty. If the student wishes to appeal the decision further, he/she should appeal in writing beginning with the chair, director, or associate dean level, followed by an appeal to the dean of college, if desired. A graduate student may seek review of a decision by submitting a written request to the Dean of the Graduate School. Appeals at each level must be made in writing no later than ten class days after the date of the decision of the previous level. The ten days for appeals at each level do not include weekends, holidays, or days between academic sessions. 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.

If additional review is desired following the decision of the Dean of the Graduate School, the student, within 10 days, may request in writing a review by the Provost and Vice President for Academic Affairs. The decision of the Provost and Vice President for Academic Affairs is final.

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.

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

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 4th class day of Summer I/III 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.)

Late applications for graduation are not accepted.

The "Calendar of Deadlines" for graduating students is issued by the Graduate School each semester. It is available on the Graduate School website (<http://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, 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. 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 should 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.

When thesis work for the degree is undertaken during summer school, the thesis course must be elected for at least two summer terms.

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 <http://www.twu.edu/gradschool/>) should be consulted for additional information concerning the thesis or professional paper.

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 an 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 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, 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 in which the student is enrolled. This committee evaluates the student's professional promise, plans for continued study, and progress with respect to the dissertation; the committee then arranges for the student's qualifying examination, 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 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 should be approved by the Research Committee; the department chair, director, or associate dean; 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. When the dissertation work is done in summer school, the dissertation course must be elected for at least two summer terms.

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 <http://www.twu.edu/gradschool/>) for additional information.

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. 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 <http://www.twu.edu/o-rg/irb.html>.
 - (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 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, who forwards the request to the appropriate dean in another university of the Federation.

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 Disser-*

tations, Theses, and Professional Papers, for more details concerning preparation of the prospectus (available at <http://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

Specific Graduate School requirements for preparing professional papers, theses, and dissertations are listed in the publication entitled *Guide to the Preparation and Processing of Dissertations, Theses, and Professional Papers*, available at <http://www.twu.edu/gradschool/> (the Graduate School website).

College of Arts and Sciences

Dean: Ann Q. Staton, Professor

Location: CFO 1201

Associate Dean: Don Edwards, Professor

Location: CFO 1204

Phone: 940-898-3326

Fax: 940-898-3366

E-mail: cas@twu.edu

Website: www.twu.edu/as/college/

The College of Arts and Sciences is comprised of the departments of Biology; Chemistry and Physics; English, Speech, and Foreign Languages; History and Government; Mathematics and Computer Science; Psychology and Philosophy; and Sociology and Social Work. The Women's Studies Program, the School of Management (Business and Economics; Fashion and Textiles; and Health Systems Management) and the School of the Arts (Dance, Music, 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 following dual degrees are offered: Master of Business Administration/Master of Health Systems Management and Master of Business Administration/Master of Science in Food Systems Administration. The Specialist in School Psychology degree is also offered.

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, while the Women's Studies program offers a Post-baccalaureate Certificate in Women's Studies.

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

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 earlier pages of this catalog. Specifics about the college's departments, programs and graduates can be found on the college website (www.twu.edu/as/college/).

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/as/bio/

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

Graduate Degrees Offered

M.S. in Biology.

M.S. in Biology Teaching.

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 in both the verbal and quantitative sections. Those accepted into the Ph.D. program commonly have GRE scores above 500 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.

General Requirements for All Master's Degrees

Total Hours Required: A minimum of 30 hours, including 6 hours for thesis, for the M.S. in Biology, or 36 hours for the M.S. in Biology primarily for Teaching, 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.

Federation Program Faculty

The doctoral program is staffed by faculty from Texas Woman's University and the University of North Texas. The following faculty members from each university participate in the program.

- **Texas Woman's University:** Beck, Bergel, Chai, Conrad-Webb, Hynds, Maier, McIntire, Mills, Uphouse.
- **University of North Texas:** Ayre, Benjamin, Burggren, Chapman, Dickstein, Fuchs, Gross, Kunz, O'Donovan, Padilla, Pirtle, Root, Schwark, Tam, Zimmerman.

Faculty Research Interests

Faculty of the two participating universities pursue a variety of research topics.

TWU faculty research interests include mechanisms of neuronal development and regeneration; gene regulation and hormone action; cellular U.V. response and chromatin structure; biology of retroviruses; study of bacterial pathogenesis and plasmid biology; aspects of brain development and brain function; plant genomics and phytoestrogen; and regulation of ribosomal RNA synthesis.

Admission to the Program

Students initially must apply to and meet the general admission requirements of either the Graduate School at TWU or the Toulouse School of Graduate Studies at UNT. Applications of students who satisfy the graduate school's admission standards are forwarded for review to the federation's Molecular Biology Committee or to the Neuroscience Committee which are composed of faculty from each participating university. This committee is responsible for recommending acceptance into the federation doctoral 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 5023. Biology Laboratory Methods for the Junior High School Teacher. For students in science education. Development of laboratory skills and techniques for teachers of junior high school biological sciences. Prerequisite: Permission of instructor. Teaching experience preferred. Two lecture, two laboratory hours a week. Credit: Three hours.

BIOL 5033. Laboratory Methods for High School Biology Teachers. For students in science education. Development of laboratory skills and techniques for teachers of high school biological sciences. Prerequisite: Permission of instructor. Teaching experience preferred. Two lecture, two laboratory 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 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 5533. Medical Genetics—Genetics Counseling. Human genetics and gene abnormalities; principles of genetic counseling. Three lecture hours a week. Credit: Three hours.

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 by graduate students; discussions of presentations and related literature or laboratory techniques. Credit: One hour. May be repeated for additional credit.

BIOL 5703. Radiation, Protection and Dosimetry. Interactions of ionizing radiations and matter, radiation instrumentation, determination of radiation, case and principles of radiation protection. Prerequisites: One year of physics and permission of instructor. Three lecture hours a week. Credit: Three hours.

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 in Science Education.

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. 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 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 Physics

Chair: Richard D. Sheardy, Professor

Location: SCI 105

Phone: 940-898-2550

Fax: 940-898-2548

E-mail: chemphy@twu.edu

Website: www.twu.edu/as/chemphy/

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

Graduate Degrees Offered

M.S. in Chemistry.

M.S. in Chemistry Teaching.

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 Physics 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 and on the GRE Quantitative of 550 should be presented. An applicant with a bachelor's degree in another discipline may be admitted provisionally until all undergraduate deficiencies are cleared.

An applicant for admission to graduate study leading to the Master of Science in Chemistry Teaching should hold the bachelor's degree in a specific field of science, mathematics, general science, or elementary education with at least 18 semester hours in science or mathematics. Preferred scores on the GRE Verbal of 400 and on the GRE Quantitative of 550 should be presented.

General Requirements for All Master's Degrees

Total Hours Required: A minimum of 30 hours, including 6 hours for thesis, for the M.S.; a minimum of 36 hours for the M.S. in Chemistry Teaching, including 6 hours of courses in education and 3 hours for professional paper or 6 hours for thesis.

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 Physics 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: Bruce Krajewski, Professor

Location: CFO 906

Phone: 940-898-2324

Fax: 940-898-2297

E-mail: ENGSPFL@twu.edu

Website: www.twu.edu/as/engspfl/

Faculty: Professors P. Bridges, H. Burns, B. Krajewski, J. Palmer, M. Randeri, A. Staton, A. Stuart, W. Tanner, L. Thompson, S. Webb; Associate Professors J. Bean, V. Casper, R. Greer, A. Litton, N. Nik, S. Souris; Assistant Professors L. Doddy, K. Marsh, R. Rodriguez.

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 graduate English major may specialize in English or American literature, in the English language, or 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 on the verbal section of the GRE and a preferred score of 350 on the quantitative section of the GRE; 3.0 grade point average on previous upper division and graduate work; official transcripts; three letters of recommendation; a writing sample (for doctoral admission); and a score of 600 on TOEFL for international students. A personal interview is required for graduate students who are seeking a teaching assistantship.

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 option). 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 18 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

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

*See Research tools.

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, administered at the completion of all course work, consists of nine hours in written examinations and a two-hour oral examination. The Qualifying Examination has three content areas (historical/theoretical rhetoric, applied rhetoric, and elective area) and is administered by the research committee during three days of one week. The oral examination is held within one month of the student's successfully completing the written examinations and at least three departmental members participate in the oral examination.

Final Examination: An oral examination covering the area of the completed dissertation and areas related to it.

Research Tools for the MA

Students select one of the following options:

1. 6 credit hours of a foreign language at the undergraduate level or 3 hours at the graduate level (or the equivalence on a proficiency examination)
2. 6 credit hours of American Sign Language
3. 6 credit hours of computer science at the undergraduate level or 3 credit hours at the graduate level
4. 3 credit hours of Library Science
5. 3 hours of Old English/Anglo Saxon at the graduate level

Research Tools for the PhD

For the MA, 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***

* See department for information on equivalency examination.

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

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

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 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 classical, medieval, renaissance, and seventeenth-century rhetoric. Readings in Plato, Aristotle, Cicero, Quintilian, medieval rhetorical handbooks, schools in Renaissance, humanism, poetics, and rhetoric in the seventeenth century. Three lecture hours a week. Credit: Three hours.

ENG 6213. History of Rhetoric II. 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 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.

Courses of Instruction in Foreign Language

FL 5043. English for International Students. English grammar and composition for international students. Prerequisite: Graduate standing. Three lecture hours a week. Credit: Three hours. May be repeated for three additional hours of credit.

FL 5913. Individual Studies in Language and Literature. Graduate standing. Three lecture hours a week. Credit: Three hours. May be repeated for additional credit.

Course of Instruction in Spanish

SPAN 5913. Individual Studies in Hispanic Language and Literature. Prerequisite: Twelve hours in advanced Spanish. Credit: Three hours.

Department of History and Government

Chair: Mark Kessler, Professor

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Faculty: Professors J. Alexander, V. Belfiglio, L. Hodges, T. Hoye, M. Kessler, B. Presnall, J. Robb, P. Travis; Associate Professors K. Landdeck, M. Will de Chapparo; Assistant Professor J. Blosser.

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 the political process, with a focus on American politics and public policy. In history, the M.A. emphasizes American social and political history. 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 3.0 average in all upper-division and previous graduate work and at least 18 hours of upper-division undergraduate or graduate work in the major field.

4. Applicants are required to submit a statement of purpose and a GRE score. Letters of recommendation may be 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: 30-36 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.

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.

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 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 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 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 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 elite. Current status of the 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 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 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 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 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

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Faculty: Professors D. Edwards, W. Mallam, D. Marshall, F. Thompson, W. Zimmermann; Associate Professors M. Demuynck, E. Grigorieva, T. Hogan; Assistant Professors M. Hamner, J. Navarra-Madsen, J. Zhang; Senior Lecturers C. Banks, B. Ferrell, E. Hays.

The Department of Mathematics and Computer Science offers graduate studies leading to the following degrees: Master of Arts in mathematics, Master of Science in mathematics, and Master of Science in mathematics teaching.

The Master of Arts and the Master of Science prepare 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 or computer science. 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.

In addition, admission to the Master of Arts degree program requires a total of 12 hours of advanced work which must include linear algebra, abstract algebra, and advanced calculus.

Graduate Degrees Offered

M.A. and M.S. in Mathematics

M.S. in Mathematics Teaching

General Requirements for All Master's Degrees

Master of Arts

Total of 30 hours which includes 6 hours thesis

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 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: (1) A grade of A or B for courses to be counted toward the degree. (2) A reading knowledge of one modern foreign language for the M.A. degree. (This requirement may be met with six hours of college credit in a foreign language or by examination.) (3) Of the 24 hours of mathematics on the Master of Arts degree, 18 hours of this program shall consist of three approved six-hour sequences selected from general areas such as algebra, analysis, applied mathematics, foundations of mathematics, geometry, or topology.

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: (Note that students may count no more than two courses from outside the TWU Mathematics and Computer Science Department.)

- 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
- PSY 6203. Multivariate Statistics
- PSY 6213. Non-parametric Statistics
- PSY 6204. Advanced Research Design

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

3 Hours:

MATH 5103. Problem Solving in the Elementary Grades
MATH 5203. Problem Solving in the Secondary Grades

6 Hours:

MATH 5313. Geometry in the Mathematics Classroom
MATH 5903. Euclidean Geometry
MATH 5903. Modern Geometry

3-6 Hours:

MATH 5213. Math Manipulatives in the Classroom
MATH 5303. Algebra in the Mathematics Classroom

MATH 5973. Professional Paper (required)

The MS 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 5003. Mathematical Concepts in the Educational Setting. Problem solving, reasoning, sets, logic, geometry, algebra, trigonometry, matrices, statistics and probability, sequences and series, graph theory, integration, differentiation, vectors. Three lecture hours a week. Credit: Three hours.

MATH 5033. Advanced Calculus. Elements of point set theory; the limit concept and continuity; differentiation of functions of one variable and several variables. Prerequisites: MATH 3104 or equivalent. Three lecture hours a week. Credit: Three hours.

MATH 5103. Problem Solving in the Elementary Grades. For students desiring professional development in strategies for teaching problem solving techniques in the elementary classroom. Number concepts, patterns and relations, functions, geometry, measurement, probability, statistics, operations and computation. Incorporate children's literature, manipulatives and relevant technology. Three lecture hours a week. Credit: Three hours.

MATH 5203. Problem Solving in the Secondary Grades. 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 5213. Math Manipulatives in the Classroom. Study of variety of manipulatives and their use in modeling math concepts in grades K-12; development of instructional sequences based on the constructivist approach to learning. 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 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 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. Matrices; determinants; matrix inversion; rank and equivalence; linear equations; eigenvalues. Prerequisite: Permission of the instructor. Three lecture hours a week. Credit: Three hours.

MATH 5523. Introduction to Number Theory. Divisibility properties of integers; prime numbers; congruences; multiplicative number-theoretic functions. Prerequisite: Permission of the instructor. Three lecture hours a week. Credit: Three hours.

MATH 5543. Symbolic Logic. Symbolic analysis of English sentences. Formal proofs of validity via truth tables and deduction. Symbolic analysis and classification of relations. Prerequisite: Permission of the instructor. 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 5833. Computer-Aided Mathematical Modeling. Instruction in the use of computer-aided techniques in the mathematical modeling of biological and physical systems. Such models included in the course are feedback models, compartmental models, and simulation models. Also such computer software packages which are useful in the solution of similar problems are introduced. Prerequisite: Permission of the instructor. 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. Miller, L. Rubin, S. Stabb; Associate Professors J. Brooks-Harris, D. Maricle, S. Rich; Assistant Professors B. Bentz, K. Booker, K. DeOrnellas, J. Fitch, K. Foster, B. Harding, C. Hart, A. Mitchell, D. Mollen; Clinical Professor M. Gottlieb.

Graduate Degrees Offered

M.A. in Counseling Psychology.

Specialist Degree in School Psychology.

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 National Association of School Psychologists approved Specialist and Ph.D. degrees. The School Psychology Program is designed to prepare students in the practitioner-scientist 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. 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.
2. A preferred minimum score of 1000 on the Graduate Record Examination (GRE) Preferred scores are 500 verbal, 500 quantitative, and 4.0 analytical writing.
3. Submission of a 500-word statement describing your goals in psychology.
4. 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.
5. Submission of three letters of recommendation.
6. Vita

Items three, five and six above are to be submitted to the program Admissions Coordinator of the respective program (Counseling or School) in the Department of Psychology and Philosophy. The application, GRE scores, and transcripts are submitted to the Office of Student Records Processing.

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, 500 quantitative, 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). 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 exclusive of practica and thesis grades.
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 will submit a 5-page autobiography describing the applicant's background, personal growth and development, future goals, and reasons for applying to the Doctoral Program.
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 and work experience relevant to the program and discipline.

Deadline: If a student is to be considered for admission for the following fall semester, the appropriate Admissions Coordinator of the Department of Psychology and Philosophy must receive the application for admission to the doctoral program, official GRE scores, letters of reference, essay, and vita no later than February 1 for applications to the School Psychology Doctoral Program and December 15 for the Counseling Psychology Doctoral Program. Admission to all doctoral programs is usually provisional with advancement to unconditional admission being 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: 64-65 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.

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-approved 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.

Specialization: In general, the specialization 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.

Comprehensive Examinations: Phase I Comprehensive Exams consist of a series of written integrative essays over core psychological foundations. Phase II 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 Phase II 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.

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.

Internships: School Psychology doctoral students must complete a full-time, 1500-hour internship over a period of one year or 10 consecutive months. At least 600 of the 1500 hours must be in a school setting. A full year, full-time APPIC 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.

Specialization: A specialization will be arranged in consultation with the doctoral program core faculty. A specialization in School Neuropsychology or Counseling/Intervention may be chosen.

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 6863. Qualitative Research Methods and Program Evaluation

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: Full-time enrollment equivalent to one year is required of all doctoral students. Requests for exceptions to this requirement must be approved by the core faculty of the School Psychology Doctoral Program. 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 series of written integrative essays 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.

Final Examination: 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 co-requisite: 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. Prepracticum Co-requisite: 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. Co-requisite: 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. Co-requisite: PSY 6931. Credit: Three hours.

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 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. Co-requisite: 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 MA 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. Human Learning and Cognition. Major processes involved in human learning and cognition; including: acquisition, memory, verbal learning, discrimination, concept formation, perceptual motor learning, problem solving, transfer, and the role of learning in affective behavior. 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. 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 6543. Neuropsychological Intervention Strategies. Overview of the literature related to cognitive rehabilitation techniques, current issues in the field, and use of neuropsychological assessment in intervention and treatment. Prerequisites: PSY 6133, 6523, 6533, or equivalents. 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 6593. Advanced Family Psychology and Systems Interventions. Critical review and analysis of the literature in family psychology and systems theory and cybernetics as applied to human interaction. Examination of the evolution of the meta-theory undergirding therapeutic approaches to family process and change, major models of family intervention, and diversity issues germane to family psychology. Prerequisites: PSY 5674 and 5923/6923 (Past or concurrent enrollment). 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. Co-requisite: 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. Co-requisite: 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. Co-requisite 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. Co-requisite: 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. Prepracticum in Applied Psychology. Prepracticum will provide limited practical experiences as corequisite for PSY 6853, PSY 5423, PSY 6523, PSY 6533, PSY 6643, PSY 6653, PSY 6703, and PSY 5803. 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

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Faculty: Professors M. Sadri, J.L. Williams, P. Yang; Associate Professor L. Marshall, L. Zottarelli; Assistant Professors G. Sulik, A. Tilton.

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 except for the submission of GRE scores. 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 except for the submission of GRE scores. 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 (5--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 5293. Research in Education
- FS 5693. Research Methods in Family Science
- FS 5783. Issues in Early Childhood Research and Evaluation
- FS 6693. Advanced Quantitative Research Methods in Family Science
- FS 6793. Advanced Qualitative Research Methods in Family Science
- 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

For admission to the sociology masters program, the GRE is required, along with a GPA of 3.0 or better, a personal statement (2 pages) of interest, and two letters of recommendation.

Admission to the doctoral program requires a GPA of 3.5 or better on the last 60 hours of undergraduate work and on all graduate work; three letters of recommendation; and a personal statement of interest (2-3 pages). The GRE is required. To insure adequate preparation for the doctoral program, the Department of Sociology and Social Work requires 12 to 18 hours of undergraduate or graduate credit in sociology, including a graduate course in statistics and a graduate course in social sciences research methods.

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: 90 hours, including master's degree and 12 hours for dissertation

Core: 24 hours, 12 hours each in sociological theory and social sciences research methods/statistics

Major/Emphasis: 24 hours, including 12 hours dissertation

Minor or related area: 12 hours

Research Tools: Twelve hours, including a minimum of six hours in one of the following areas: statistics, methods, research technology, foreign language.

Qualifying Examination: Written and oral comprehensive in four areas. 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 organizing 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 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.

Women's Studies Program

Director: Claire L. Sahlin, Associate Professor

Location: Human Development Building, 307

Phone: 940-898-2119

Fax: 940-898-2101

E-mail: womenstudies@twu.edu

Website: www.twu.edu/as/ws/

Faculty: Professor A. Keating; Associate Professor C. Sahlin; Assistant Professor J. Rohrer; and over 25 affiliated faculty members.

Graduate Degree Offered

M.A. in Women's Studies

Graduate Certificate Offered

Post-baccalaureate Certificate in Women's Studies

The Women's Studies Program offers a Master of Arts degree in Women's Studies that emphasizes an understanding and appreciation of Women's Studies as a transdisciplinary, multicultural field of study. Undergraduate and graduate courses are regularly taught by over twenty 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.

Admission Requirements

Please see the admissions section in the front of this catalog. In addition to these general requirements, the Women's Studies Program requires the following for 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 including career goals and professional development 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.

General Requirements for Master's Degree in Women's Studies

Total Hours Required: 36 hours, including 6 hours of thesis OR 36 hours of graduate coursework and successful completion of a comprehensive examination. At least 18 hours in Women's Studies, including WS 5363, WS 5463, and WS 5843.

Oral Examination: Defense of thesis.

Minor: Optional, 6 hours.

Certificate Program

The Women's Studies Program 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.

Course Requirements: A minimum of 18 hours 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 12 hours must be selected from WS 5353, WS 5363, WS 5463, WS 5663, or WS 5843.

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 Women's Studies Certification will apply toward their degree. Students seeking admission to a master's or doctoral program, in addition to Women's Studies certification, must meet the entrance requirements of the degree program.

Students entering TWU only for the Certificate in Women's Studies must apply for admission to the Graduate School. In addition to the general requirements for admission, the Women's Studies Program also requires a statement of purpose (500-700 words) describing the relationship of the 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 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 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 subject-

tivity. 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 5663. Women's Studies Seminar. A topical course designed to focus student knowledge and scholarship in an integrated, interdisciplinary body of feminist thought. May be repeated for credit as 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 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 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 5973. Professional Paper. Credit: Three hours.

WS 5983. Thesis. Credit: Three hours.

WS 5993. Thesis. Credit: Three hours.

School of the Arts

Director: Penelope Hanstein, Professor

Location: DGL 206

Phone: 940-898-2086

Fax: 940-898-2098

Website: www.twu.edu/soa/

Faculty: Professors S. Benge, J. Calabrese, J. Chenevert, N. Cohen, S. Grant, N. Hadsell, P. Hanstein, L. Stuckenbruck, G. Washmon, J. Weinkein, M. Williford-Shade, P. Youngblood; Associate Professors L. Caldwell, S. Gamblin, D. Gregory, G. Keeton, C. Parsons, R. Shuster; Assistant Professors P. Bynane, G. Evans, J. Fuchs, J. Jensen, T. Medlin, J. Perez, W. Robbins, T. Synar; 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 Applied Music).

M.A. in Art (with emphases in Art Education, Art History, 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/soa/).

Department of Dance

Chair: Penelope Hanstein, Professor

Location: DGL 206

Phone: 940-898-2085

Fax: 940-898-2098

E-mail: dance@twu.edu

Website: www.twu.edu/soa/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 liberal 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 degree program is designed to provide opportunities for focused growth in the areas of choreography and performance. The emphasis is on the enhancement and refinement of personally relevant approaches to art making. The program seeks to foster the development of an understanding of the nature of dance as an art form in society and an appreciation of how the individual artist is part of a larger world. The development of a body of artistic work and the skills necessary to function as an independent artist are key aspects of the program of study.

The Ph.D. in Dance is a research-oriented program connecting theory with practice in such contexts as artistic process, dance studies, pedagogy and the scholarship of teaching. The goal of the program is to provide opportunities for accomplished dancers, choreographers, teachers, and other practitioners to develop qualitative methodologies for theorizing artistic practice as well as the research/writing skills necessary for contributing new theoretical knowledge to the field of dance. In addition to the traditional full-time in-residence program, the Ph.D. program is offered in a low-residential format structured to meet the needs of students wanting to maintain their professional responsibilities while pursuing doctoral studies. 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/soa/dance.

General Requirements for Master of Arts Degree

Total Hours Required: 36 hours, including hours for thesis or professional paper.

Core: 24 hours

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: 60 hours, including choreography/performance portfolio and professional paper. The M.F.A. is a three-year course of study.

For students entering the M.F.A. program with a Master of Arts degree or extensive professional-level choreography and performance experience, it may be possible to complete the degree in two years.

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.

Core: 43 hours

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 academic 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

Course work leading to Certification in Labanotation

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 5102. 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. Six laboratory hours a week. Credit: Two hours.

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. The Choreographic Process: Making, Perceiving, Educating.

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: Permission of instructor. Three lecture hours a week. Credit: Three hours.

DNCE 5281. Styles of Ballet I. Advanced technique class in ballet. Prerequisite: Permission of instructor. Four and one-half laboratory hours a week. Credit: One hour. May be repeated for additional credit.

DNCE 5291. Styles of Ballet II. Advanced technique class in ballet continuing from Advanced Ballet I. Prerequisite: Permission of instructor. Four and one-half laboratory hours a week. Credit: One hour. May be repeated for additional credit.

DNCE 5301. Studies in Modern Dance I. Advanced technique in modern dance. Prerequisite: Permission of instructor. Four and one-half laboratory hours a week. Credit: One hour.

DNCE 5311. Studies in Modern Dance II. Advanced technique in modern 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.

DNCE 6993. Dissertation. Prerequisite: DNCE 6983. Credit: Three hours.

Department of Music and Drama

Chair: James Chenevert, Associate Professor

Drama Program Director: Sharon Benge, 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/soa/music or www.twu.edu/soa/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.

Programs 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.

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 stage management, house management, “front-of-house” techniques and public relations 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

Placement examinations in music styles (music theory and history) must be completed prior to the first term of enrollment. These exams are administered on the Saturday preceding the start of the semester. Proficiency on a major instrument and appropriate keyboard skills required of the major concentration 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.

General Requirements for All Master’s Degrees

Total Hours Required: 36 semester hours

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)

Major Area	hours:
MU 5803 Recital (x 2 for Voice, Clarinet, Flute) MU Performance = 12 = 15 (Piano, includes accompanying) = 18 (Voice, Clarinet, Flute)	3 for Piano, 6 for Voice, Clarinet, Flute
Other Studies in Music	
MU 5573 Bibliography in Music MU 5933 Styles in Music MU 5553 Seminar in Music Literature I MU 5563 Seminar in Music Literature II = 12	3 3 3 3 = 12
Electives – not specified	9 for Piano 6 for Voice, Clarinet, Flute

Vocalists, clarinetists, and flutists present two recitals. Piano majors may present a second recital which may be solo, chamber or a lecture-recital.

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 5573 Bibliography	3
MU 5933 Styles in Music	3
MU 5983/5993 Thesis	
or	
MU 5973 (Prof Paper) + 3 hr. elect.	
or	
MU 5803 (Recital) + 3 hr elect.	<u>6</u>
=	12
Electives – not specified	12

Grand Total = 36 Hours

Pre-K-12 music certification available with 6-12 hours teaching experience: one-semester unpaid practicum (6 hours), OR two-semester internship (6 hours/sem.) in which student is employed as teacher of record (graduate course numbers determined by advisory committee.) A prerequisite for this is passing the TExES music certification exam.

Degree Plan - Master of Arts in Music With Emphasis In Music Pedagogy (36 hours)

<u>Major Area</u>	hours:
MU 5911 Practicum I, II, III	2 (sems.) for Instrumental; 3 (sems.) for Voice
MU 5553 Seminar in Music Literature I or MU 5563 Sem. In Music Literature II	3
MU 5753 Pedagogy I	3
MU 5763 Pedagogy II	<u>3</u>
=	11 for Instrumental, 12 for Voice
<u>Other Studies in Music</u>	
MU 5573 Bibliography	3
MU 5933 Styles in Music	3
MU 5803 Recital	3
MU Performance	<u>2</u>
=	18
Electives – not specified	7 for Instrumental, 6 for Voice

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

**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 Adv. Tech. (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 5573 Bibliography	3
MU 5933 Styles in Music	3
MU 5643 Research on Music and Behavior	3
Music Electives	<u>3</u>
	12
<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. This exam may be undertaken only after all requirements, including internship, have been completed. However, completion of the program does not guarantee eligi-

bility 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 MS 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 5973 Bibliography in Music	3
MU 5643 Research on Music and Behavior	3
MU 5973 Professional Paper	3

Music Therapy Area: 9 hours

MU 5533 Philosophy and Theories of MT	3
MU 5543 Multicultural Aspects of MT	3
MU 5913 (x3) Adv. Prac. in MT/Coun (300 clock hours)	3

Counseling Area: 35 hours

FS 5003 Lifespan Human Development	} Concurrent	3
FS 5443 Multicultural Counseling		3
PSY 5513 Adv. Psychopathology		3
FS 5323 Psych Appraisal of Individual		3
FS 5313 Counseling Theory and Practice		3
FS 5363 Prepracticum		3
FS 5373 Group Counseling		3
FS 5493 Community Mental Health Counseling		3
FS 5453 Counseling for Career Dev OR		
FS 5623 Occupations and Opportunities		3
FS 5303 Professional Orientation/Ethics in Counseling		3
FS 5532/5542 Practicum in Counseling (concurrent)		4
FS 5894 Internship in Counseling (300 clock hours)		4
FS 5911 Individual Study		1

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. This exam may be undertaken only after all requirements, including internship, have been completed. However, completion of the program does not guarantee eligibility to take the board certification exam. Questions regarding specific criminal background and its possible effects on eligibility for board certification should be addressed directly to the Certification Board for Music Therapists.

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.

Performance Areas

Private music lessons are available on all instruments, including voice. Consult the class schedule for course numbers. Private lesson instructor availability is limited. Permission to register must be obtained from the department chair for lessons except as required for a music degree program on a student's primary instrument.

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 5573. Bibliography in Music. Comprehensive instruction in all aspects of music information retrieval, including reference sources, techniques of library research, microfilm/microfiche applications, and introduction to computer assisted search procedures. Three lecture hours a week. Credit: Three hours.

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 5702. Practicum in Music Theory. A remedial theory course designed to correct undergraduate deficiencies and elevate the entering graduate student to TWU standards; necessity of placement determined by entrance exams. Two lecture hours per week. Credit: Two hours.

MU 5723. Music in Early Childhood. Philosophy, methods, and materials for teaching music in early childhood; study of music characteristics of young children; attention to social development, attention span and the acquisition of language skills through music. Three lecture hours per 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, physiology, 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: John L. Weinkein, Professor

Location: Fine Arts 107A

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Fax: (940) 898-2496

E-mail: jweinkein@twu.edu

Website: www.twu.edu/soa/va/

Faculty: Professors J. Calabrese, S. Grant, L. Stuckenbruck, G. Washmon, J. Weinkein; Associate Professors D. Gregory, C. Parsons; Assistant Professors J. Perez, T. Synar.

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 Clay, 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 major advisor, minor advisor, 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/as/va/).

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 the Master of Fine Arts degree: (1) GPA of at least 3.0 in last 60 hours of undergraduate work, (2) preferred score of 375 on the verbal and 375 on the quantitative portions of the GRE, (3) a portfolio of 20 slides, or a powerpoint presentation on a CD, of original works, (4) current transcripts, (5) brief statement of intent, (6) current vita, (7) personal interview with the chair and/or faculty advisor.

For the Master of Arts (30-hour, 36-hour, and 39-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, clay, painting, sculpture, or photography, a portfolio of 20 images in slide 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 major 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 major 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 slides.

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.

General Requirements for All Master’s Degrees

Total Hours Required: 30 hours with a major area of concentration, including 6 hours for thesis, or 36 hours with a major area of concentration, including 3 hours for a professional paper and project, or 39 hours without a major 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 - The Master of Arts (Thesis Option)

Emphasis in one of the following areas:
Graphic Design, Art Education, Clay, History of Art, Painting, Photography, Sculpture.

Major area of concentration	12
Minor 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 –
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 competences 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 junior 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 offered in cooperation with the College of Professional Education and the Visual Arts Department does provide Art Teacher Certification. 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	<u>3</u>
<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 5993 Thesis	<u>3</u>
<i>Total Minimum Semester Hours</i>	36

Additional Courses for Post-Baccalaureate Students Seeking Certification in All Level Art

In addition to seeking an MAT 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: Clay, Painting, Photography, and Sculpture

MFA Major Field	27
MFA Minor Field	12
Art History	6
Portfolio 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 and 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 major 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 slides 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 major. The following is submitted at the time of the review, (1) in studio areas (including graphic design, clay, painting, photography, and sculpture), portfolio of work, either original work or slides, (2) in art education and art history, evidence of scholarly research, (3) current transcripts, (4) degree plan, (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 major 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.

Minors Offered to Students from Other Departments

A general minor in art for the non-major requires the following prerequisites: (a) an undergraduate art minor or (b) satisfactory completion of the prerequisites for the art minor which are as follows: 18 semester hours of art courses, including basic design, history of art (6 semester hours), one advanced level two-dimensional studio course and one three-dimensional studio course.

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. 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 5503. History of Art. Individual study of selected topics in the history of art. Prerequisite: Twelve hours of history of art. Three lecture hours a week. Credit: Three hours. May be taken for up to 12 hours credit.

ART 5603. North American Indian Art. Introduction and overview of the visual art forms of American Indian people in North America, from prehistoric through contemporary. Survey of major culture area groups and individual artists of native North America with emphasis on the cultural context of the artistic production. 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 5713. Painting Watercolor. Special problems in advanced watercolor. Prerequisite: ART 3713. 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/sominfo

MHSM Program Director: Rob Maurer, Associate Professor

Location: DED 140

Phone: 214-689-6560, 940-898-2111

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E-mail: rmaurer@twu.edu

Website: www.twu.edu/hs/d-hca

Faculty: Professors D. Bulls, P. Driscoll, A. Griffin, P. Hughes, R. Rezac, D. Young; Associate Professors P. Baker, S. Dragoo, R. Maurer, P. Mercer, M. Raisinghani; Assistant Professors M. Hayhurst, W. He, J. Newcomer, P. Raman, D. Rylander, S. Singh, M. Tengesdal, K. Webb; Senior Lecturer S. Taylor.

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 Certificate Offered

Post-baccalaureate Certificate in Business 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 MBA (EMBA) program is designed for professionals with a minimum of 5 years 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 Ft. Worth, Plano, and Houston, Texas. 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 MBA 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 EMBA classes.

The 45-hour Master of Health Systems Management (MHSM) 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. joint 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.

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 EMBA 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 5533 Advanced Management Information Systems or
 BUS 5903 Strategic Information Systems
 BUS 5543 Advanced Quantitative Management Analysis

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 5523 Business Economics or Instructional Study Tour

Business Electives

General Requirements for the Executive M.B.A. – Health Care 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 II

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 II
 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

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 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 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 co-requisites: 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 5333. Advanced Business Policy. Study of typical policy-making decisions that confront management. Analysis of actual business cases. Individual and team participation in analyzing business problems and developing recommended solutions. Prerequisite: Degree in business or permission of instructor. 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 5413. Advanced Promotion Strategy. Management of the promotional mix of sales, sales promotion, and mass selling; emphasis on interaction and coordination of these elements in overall marketing strategy. 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 5443. Advanced Analysis of Small Business. Advanced theory and practical experience in the analysis of various small business operations; integration and application of knowledge across functional areas. 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 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 5543. Advanced Quantitative Management Analysis. Advanced topics in statistical inference relating to decision making and research in business and economics; probability theory, tests of hypotheses, sampling and experimental design, multiple correlation and non-parametric statistical methods. Prerequisite: Statistics and quantitative analysis or permission of instructor. 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 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. 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: Jerry Whitworth, Professor

Location: SH 202

Phone: (940) 898-2202

Fax: (940) 898-2209

Website: www.twu.edu/cope/

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/cope/. 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 cumulative GPA of 3.0 or 3.0 in the last 60 hours and a cumulative GPA of 2.5, and THEA/TASP scores of 260 in reading, 240 in math and 240 in writing (certification requirement).

General Requirements for the M.A.T.

The M.A.T. requires a minimum of 31 hours: 15 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. Law, Ethics, and Professional Roles and Responsibilities

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 5142. 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/cope/famsci/

Faculty: Professors L. Chenoweth, J. Engelbrecht, G. Jennings, L. Ladd, L. LeFlore, J. Martin; Associate Professors S. Adams, J. Armstrong, R. Fannin, S. Jackson, L. Moore, K. Petty, S. Snider; Assistant Professors P. Bradley, L. Brock, R. Buckley, N. Collier, N. Gillum, E. McCarroll, L. Metcalf, J. Muro, K. Rose, B. Vittrup.

Graduate Degrees Offered

M.S., Ph.D. in Child Development.

M.S. in Counseling and Development.

M.Ed., Ed.D. in Early Childhood Education

M.S., Ph.D. in Family Studies.

M.S., Ph.D. in Family Therapy.

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 Child Development, Family Studies, and Family Therapy and an Ed.D. program in Early Childhood Education.

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 Community Counseling (designed to meet educational requirements for Licensed Professional Counselor [L.P.C] licensure) or School Counseling (designed to meet educational requirements of the State Board for Educator Certification). 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 Community 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.

The program requirements of 52 credit hours in either Community Counseling or School Counseling satisfy the academic requirements for becoming a Registered Play Therapist (RPT) if appropriate electives are successfully completed.

A 56-hour 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. No student will be granted the dual degrees until that student is eligible for the board certification exam in music therapy (see the Department of Music and Drama for more information on that degree plan). Students also must complete requirements listed under the Counseling and Development (Community Counseling) degree plan.

The master's and doctoral degree programs in Family Therapy have been designed to meet the academic criteria for the Texas State license for Marriage and Family Therapy (LMFT). Completion of the degree does not guarantee licensure, but it does complete the educational requirements for the student to sit for the LMFT examination. In addition, the student must complete 3000 hours of therapy under supervision as an LMFT-Associate before becoming fully licensed by the Texas State Board of Examiners of Licensed 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 and doctoral degree programs provide professional development for teachers of young children. The Ed.D. in Early Childhood Education, which is offered as a cooperative program between Texas Woman's University and the University of North Texas under guidelines established by the Federation of North Texas Area Universities, prepares professional educators to assume leadership roles in higher education and in public and private education

settings. The federated program enables students to utilize the combined faculty, library, technology, and research resources available at both universities.

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 admission section of this catalog. All applicants for graduate degrees in Child Development, Counseling and Development, Early Childhood Education, and Family Studies 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 3.0 GPA for all prior graduate work. Candidates for admission to the graduate programs in Child Development and Early Childhood Education are expected to present Graduate Record Examination scores in both the Verbal and Quantitative areas. All applicants for the master's degree in Family Therapy are expected to hold an earned bachelor's degree and have a minimum 3.25 GPA for the last 60 hours of undergraduate study. 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. The student should submit the graduate application and official transcripts from each university attended to the Admissions office.

In addition to the above requirements, an interview with program faculty is part of the admission criteria for Family Therapy and Counseling and Development. Family Therapy requires a writing sample and a role play assignment on the day of the interview. Counseling and Development also requires a writing sample on the day of the interview. Students applying only for school counseling certification must have a prior Master's degree, Texas teaching certification, and 2 years' classroom teaching experience.

Applicants to Family Studies graduate programs must submit a scholarly writing sample. Specifications are available from the department as well as the Family Studies website.

During the period before being formally admitted, a student may take course work as a non-degree student in some programs. No more than 12 credit hours taken as a non-degree student may be applied on a degree plan. Regardless of the grade a student makes, taking these 12 hours does not assure admittance to the program. The student must apply to the Graduate School as a non-degree student in order to be able to enroll in classes as a non-degree student. For Family Studies graduate programs, no course work can be counted towards a degree if earned as a non-degree seeking student. To be counted towards a Family Studies graduate degree, courses must be taken after acceptance into the program.

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 56 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, portfolio, or professional development project. This examination may be repeated if deemed appropriate by the student's advisory committee, with the approval of the chair of the department. The professional publication option in Family Therapy requires final approval by the advisory committee.

Child Development: 33 hours (thesis option) or
40 hours (non-thesis option)

Core: Courses in research and subject matter specified in degree plan.

Counseling and Development: minimum 52 hours in either of two 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) Community 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. A grade of CR is required in FS 5363 prior to enrolling in FS 5373. A grade of CR is required in FS 5532/5542 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, or 5532/5542, 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: 35 hours (non-thesis option) or
40 hours (thesis option)

Core: Courses in research and subject matter specified in degree plan.

Family Therapy: 61 hours (non-thesis option: professional
publication or professional development project)
66 hours (thesis option)

Core: Courses in research (6 hours) plus a minimum of 12 hours of clinical practicum specified in degree plan.

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.

Minor: Optional, approximately one-third of the total semester hours. A student electing not to declare a minor should consider course work in related areas. Course work in a related area is approved by the student's graduate advisory committee.

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 in addition to the 90 hours minimum described above.

Residence Requirement: None.

Qualifying Examination: The student is 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 (fourth) 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 with the knowledge that FS 6983 must be dropped if the student does not pass the comprehensive examination unconditionally. 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 and minor fields. The final examination may be repeated one time.

Early Childhood Education Teacher Certification

Students who wish to be certified to teach EC - grade 4 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:

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 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 5133, or 5303, or 6233 for Family Therapy students, and permission of the instructor. Laboratory and lecture hours to be determined. 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. 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 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 5532. Practicum in Family Therapy. Professional supervised experience in counseling individuals, couples, and families; supervision of live or videotaped sessions. Prerequisites: FS 5363, 5553, 5563, 5853, 5883, 5133, FS 5353 and permission of instructor. Corequisite: FS 5542. To be taken three consecutive semesters. One lecture and two laboratory hours a week. Credit: Two 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 5542. Practicum in Family Therapy: Clinical Experience. Clinical experience to be taken concurrently with FS 5532. Prerequisites: FS 5363, 5553, 5563, 5853, 5883, 5133, FS 5353, and permission of instructor. Corequisite: FS 5532. To be taken three consecutive semesters. Credit: Two 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 5653. Program Planning and Development in Early Childhood. Program needs; analysis techniques; organizing and working with advisory committees/boards; involving participants; developing program goals and objectives, activities, and evaluation techniques; program follow-up and evaluation. 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 5673. Administration and Management of Programs for Young Children. Examination of principles of management and administration applied to early care and education programs; emphasis on financial and human resources, legal concerns, program evaluation, physical space, and equipment. 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. Clinical diagnosis and treatment strategies are emphasized. 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 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. 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. Prerequisite: Permission of instructor. 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 6403. Theory Building in Family Sciences. Foundational elements of theories and models of theories in family sciences; the relationship between theo-

ries, 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 6532. Practicum in Family Therapy. Professional supervised experience in counseling couples and families; supervision of live or videotaped sessions. Prerequisites: FS 5553, 5563, 5853, 5883, 5133, FS 5353 and permission of instructor. Corequisite: FS 6542. To be taken four consecutive semesters. One lecture hour and two laboratory hours a week. Credit: Two hours.

FS 6542. Practicum in Family Therapy: Clinical Experience. Clinical experience to be taken concurrently with FS 6532. Prerequisites: FS 5553, 5563, 5853, 5883, 5133, FS 5353 and permission of instructor. Corequisite: FS 6532. To be taken four consecutive semesters. Credit: Two 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. Language in Early Childhood Classrooms. Analysis of Psycholinguistic research in preschool language development, emphasizing pragmatics; determination of patterns of language use in early childhood classes; interpretation of ethnographic studies of language abilities of school aged children from varied socioeconomic and ethnic groups from a sociolinguistic perspective; comparison of home and school language display; 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. Foundation 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 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 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

Chair: Margaret Compton, Associate Professor

Location: MCL 907

Phone: 940-898-2227

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E-mail: reading@mail.twu.edu

Website: www.twu.edu/cope/rd/

Faculty: Professors C. Briggs, A. Simpson; Associate Professors L. Albright, N. Anderson, M. Compton, Y. Rodriguez, N. White; Assistant Professors: C. Haag, B. Yoon; Honorary Professor C. Briggs; Lecturers E. Kaye, C. Rodriguez.

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.

The doctoral degree in Reading Education is granted through the Federation of North Texas Area Universities.

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.

Doctoral Reading Program

The doctoral program in reading is a cooperative effort between Texas Woman's University and the University of North Texas under guidelines established by the Federation of North Texas Area Universities. The federated approach enables students to utilize the combined faculty, library, computer facilities and research opportunities available at the two universities in pursuit of their doctoral studies.

Students who graduate from the federation program will receive their degree from the university through which they entered the program.

The federation doctoral program provides opportunities for formal course work, 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.

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.

The policies of the doctoral program are guided by committees made up of faculty from the two participating universities. The policies must be consistent with the policies of the participating institutions.

Program Faculty

The doctoral program is staffed by faculty from Texas Woman's University and the University of North Texas.

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 federation doctoral program in reading education is a two-step process. Each applicant first must apply to and meet the general admission requirements of the graduate school at one of the participating universities. Students should apply to the school that best meets their research and career objective interests.

After meeting the general university admission standards, each student's application is reviewed by the Reading Education Federation Admissions Committee made up of faculty members from TWU and UNT. 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: 24-27 hours

Children's literature: 3 hours

Focus area: 9 hours, subject to advisor's approval

Final Examination: Oral defense, covering the thesis, professional paper, or seminar in literacy research.

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 Supporting Field: 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 deficiency courses may be required. No grade below a "B" is accepted toward the doctoral degree.

- The following specific degree requirements must be completed for the Ph.D.
 Major in Reading (includes 6 hours at UNT): 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. students are required to complete a research internship. Ed.D. students are encouraged to complete a practical internship in a work environment.)
- Students must take a minimum of 12 hours outside the College of Professional Education and a minimum of 12 hours at UNT.

3. To complete the integrated core curriculum of the federated doctoral program in reading education, the student must complete each of the following courses. Each course will be taught by the indicated university.

READ 6533	Foundations of Reading: Physiological and Psychological Dimensions (TWU)
READ 6573	Reading as Related to Language (TWU)
EDRE 6070	Policy Studies in Reading (UNT)
EDRE 6080	The Evolution of Literacy Research (UNT)

4. The two selected courses and the elective courses in reading requirement can be satisfied by completing two doctoral-level courses approved by advisor from the following:

a. TWU

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 6553	College and Adult Reading
READ 6583	Research in Reading
READ 6593	Advanced Reading Research Design: Analysis and Evaluation
READ 6663	Practicum
READ 6683	Doctoral Seminar in Reading
READ 6903	Special Topics
READ 6911-6913	Independent Study

b. UNT

EDRE 6030	Practicum, Field Problems or Internship
EDRE 6060	Research in Language Arts
EDRE 6090	Cognition in Reading
EDRE 6100	Seminar in Reading
EDRE 6900-6910	Special Problems

5. *Residency requirement:*

The student must complete two consecutive semesters with a minimum of 9 semester hours taken each semester. Consecutive semesters may include summer, and employment is not restricted.

6. 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.

7. The student must complete successfully the common exit examination (written qualifying examination) prepared by the Federation Doctoral Committee which consists of members from each institution. The examination will consist of one and one-half days of written work in the major and a half day in the minor.
8. The student must develop successfully 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 may be applied to master's degrees in the department, with advisor approval.

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

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 5033. Literacy Development II: Grades EC-4. For post-baccalaureate students in emergency or alternative certification programs. Includes planning and organizing for instruction and assessment in comprehension, fluency, and written communication for children in grades EC-4; practice-based activities; research on

literacy development. May be graded on a Credit (CR) or No-Credit basis. Prerequisite: READ 5023. 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 5053. Literacy Development II: Grades 4-8. For post-baccalaureate students in emergency or alternative certification programs. Includes planning and organizing for instruction and assessment for grades 4-8 in comprehension, fluency, and written communication; integrating skills in study, inquiry, viewing, and representing; assessment of literacy development; practice-based activities. May be graded on a Credit (CR) or No-Credit basis. Prerequisite: READ 5043. 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 5123. Curriculum Building and Instructional Methods. Study of theories and research in curriculum management, school organization, and best practice strategies including legal, ethical, and multicultural issues. Three lecture hours and one and one-half laboratory 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 5433. Teaching Reading in the Secondary School. Basic principles of reading instruction; nature and scope of secondary reading instruction; methods, materials, and organization of the developmental, corrective study skills program

and speed reading programs in the secondary school. Prerequisite: Graduate standing or equivalent. 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 and 5443. 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. Reading in the Content Areas. Rationale and principles for teaching reading and related communication skills in content-area subjects; emphasis on strategies for instruction in text comprehension, text production, and vocabulary development. Three lecture hours a week and 15 clock hours of field-based research. 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 6553. College and Adult Reading. Nature and scope of reading instruction for adults and college students; methods; materials; organization of developmental, corrective, and accelerated study skill programs. Prerequisite: Six to nine hours of graduate study in reading or permission of instructor. Three lecture hours a week. 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 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 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

Interim Chair: Jane Pemberton, Associate Professor

Location: SH 114

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Faculty: Professors J. Barbour, P. Dam, R. Fritsch, L. Kinnison, J. Rademacher, L. Restine, C. Thomas, J. Whitworth, M. Wiebe; Associate Professors M. Cowart, D. Cunningham, B. Lerner, J. Pemberton; Assistant Professors G. Anderson, P. Casey, K. Dunlap, H. Hansen-Thomas, B. Leavell, R. McClellan, S. Mutchler, C. Sanchez, T. Stephens; Clinical Assistant Professor T. Stiles.

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. The doctoral degree in Special Education is granted through the Federation of North Texas Area Universities.

Graduate Certificates Offered

Post-master's Certificate of Advanced Study-Bilingual 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, Professional Studies, 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

application 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. 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 may be accessed on the Graduate School and Department of Teacher Education websites.

Endorsement Programs in Bilingual Education and ESL

Endorsement programs leading to 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

Graduate programs in educational administration prepare individuals to perform services in public and private schools and related educational settings. Programs are offered leading to a Master of Education (M.Ed.) or Master of Arts (M.A.) in Administration. Post-master's programs are offered leading to recommendation for certification by the State Board for Educator Certification (SBEC).

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. and M.A. degrees require completion of 39 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 6 hours of advisor approved electives. The M.A. degree program is composed of 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 (preferred), completion of coursework on the plan of study with a minimum of 18 graduate hours. 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 obtaining a bar code 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 Certificate, three years of teaching experience (preferred) and school-site or school district leadership experience, and completion of coursework on the plan of study with a minimum of 18 graduate hours. 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 obtaining a bar code for the TExES examination and recommendation for certification can be located through the Department of Teacher Education websites.

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.

Professional Studies

The Professional Studies 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 Professional Studies 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 three additional semester hours and 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 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. 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, become master teachers in specific area of exceptionality and obtain teaching certifications in specialized areas. 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, gifted and talented, learning disabilities, or mental retardation/developmental disabilities.

As part of the graduate degree students may work toward a generic special education teaching certificate. In addition, 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 GPA 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, THEA scores of 260 in reading, 240 in math and 240 in writing.

General Requirements for M.Ed. or M.A.

The M.Ed. requires a minimum of 36 hours: 9 hours of research which includes a professional paper, 12 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 hours of electives. The M.A. requires 12 hours of research which includes a thesis and no elective. 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 public and private education 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 Ph.D. Handbook on the Teacher Education/Special Education website for details. Each student's application is reviewed by the Special Education Federation Admissions Committee made up 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 the University of North Texas and Texas Woman's University.

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. Each applicant first must apply to and meet the general admission requirements of either the Graduate School at TWU or the School of Graduate Studies at UNT. The student should apply to the school that best meets their research and career objective.

Application 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 after six months. No student who fails a section of the qualifying examination after two attempts will be admitted to candidacy for a degree.

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. Degree.

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.

Certification Admission Requirements

Admission to TWU Graduate School

Deficiency Plan or appropriate Degree Plan

Approved application to Teacher Education Program

- Cumulative GPA of 3.0 (or at least 3.0 on last 60 hours of course work)
- THEA Scores: Reading 260, Mathematics 240, Writing 240
- Statement of personal education philosophy (on the reverse side of Application to Teacher Education Program)

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. Three lecture hours a week. 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. Three lecture hours a week. Credit: Three hours.

EDBE 5911. Individual Study. Independent study of specific problems in Bilingual and ESL education. Prerequisite: Permission of instructor. May be repeated. Credit: One hour.

EDBE 5913. Individual Study. Individual study of specific problems in Bilingual and ESL education. Prerequisite: Permission of instructor. May be repeated. Credit: Three hours.

EDBE 5923. Practicum. Field experience in Bilingual or ESL education. Prerequisite: Permission of instructor. May be repeated. Credit: Three hours. May be repeated for credit.

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. Three lecture hours a week. 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. Three lecture hours a week. Credit: Three hours.

ELDR 5143. Theories of Learning and Educational Measurement. Contemporary perspectives of teaching-learning processes and instructional theories; related research on cultural differences and learning; measurement and evaluation; historical issues in learning. Three lecture hours a week. 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. Three lecture hours per week. Credit: Three hours.

ELDR 5223. Professional Development and Supervision in Education. The scope of professional development and supervision in instructional improvement and school renewal. Three lecture hours a week. Credit: Three hours.

ELDR 5303. Seminar in Educational Issues. Contemporary problems and issues of education. Three lecture hours a week. 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. Three lecture hours a week. 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. Three lecture hours a week. Credit: Three hours.

ELDR 5433. The School Principal. The duties of the school principal with emphasis upon instructional and administrative challenges and educational leadership opportunities. Three lecture hours a week. Credit: Three hours.

ELDR 5623. Women and Careers in Education. An exploration and analysis of opportunities for women in administrative careers in education; sexism, expanding roles, affirmative action; development of leadership skills, decision-making, and change strategies required for educational administrators. Three lecture hours a week. Credit: Three hours.

ELDR 5713. Trends and Issues in Adult Education. Trends and issues affecting adult education in areas such as philosophy, adults as learners, agencies and institutions, program development and the role of the adult educator. Three lecture hours a week. Credit: Three hours.

ELDR 5823. Adult Learning and Development. Examination of theory and practice of learning and development within adult education. Three lecture hours a week. Credit: Three hours.

ELDR 5893. Internship: Superintendent. Practical experience in the position of school district superintendent under the guidance and supervision of an active superintendent. Application of concepts and competencies in realistic situations (minimum of 120 clock hours on site). 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 5923. Practicum. Field experience in educational leadership. Prerequisite: Permission of instructor. Credit: Three hours.

ELDR 5943. Seminar. Variable content. Prerequisite: Permission of instructor. Three lecture hours a week. Credit: Three hours.

ELDR 5973. Professional Paper. 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. Introduction to education law; legal aspects of school administration, including legal rights and responsibilities of educational personnel and student personnel, law and the curriculum. Three lecture hours a week. Credit: Three hours.

ELDR 6203. Statistics and Research Methodology I. Statistics and research methodology in the study of human behavior, intermediate level. Three lecture hours a week. Credit: Three hours.

ELDR 6213. Statistics and Research Methodology II. Statistics and research methodology in the study of human behavior, advanced level. Prerequisite: permission of instructor. Three lecture hours a week. 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. Three lecture hours a week. 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. Three lecture hours a week. 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. Three lecture hours a week. Credit: Three hours.

ELDR 6403. Seminar in School Administration. A thorough review of all aspects of school administration, including contemporary issues which affect schools. Three lecture hours a week. Credit: Three hours.

ELDR 6503. School Finance. The principals and concepts of public school finance at the local, state, and federal levels, and district level support services. Three lecture hours a week. 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. Three lecture hours a week. 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.

ELDR 6703. Research Problems in Educational Administration. Identification and analysis of theories and methods for investigation and selection of problem-solving designs in the field of educational supervision and administration. Review of research in educational supervision and administration. Three lecture hours a week. Credit: Three hours.

ELDR 6903. Special Topics. Organized study of topic in Educational Leadership. May be repeated. Three lecture hours a week. Credit: Three hours.

ELDR 6911. Individual Study. Individual research relating to a problem of professional interest and significance. May be repeated. Credit: One hour.

ELDR 6913. Individual Study. Individual research relating to a problem of professional interest and significance. May be repeated. Credit: Three hours.

Courses of Instruction in Professional Studies

EDUC 5113. Law, Ethics, and Professional Roles and Responsibilities (EC-12). 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: Deficiency Plan or appropriate Degree Plan; Approved Admission to the Teacher Education Program; Cumulative GPA of 3.0 (or at least 3.0 on last 60 hours of course work); THEA Scores: Reading 260, Mathematics 240; Writing 240. Three lecture hours a week. 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. Three lecture hours per week. 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 5142. One lecture hour a week. 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. Three lecture hours a week. Credit: Three hours. Prerequisites: EDUC 5113 and EDUC 5123. Corequisite: EDUC 5131. Option: EDUC 5131 and EDUC 5133 may be taken concurrently with EDUC 5142.

EDUC 5142. 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 5142 may be taken with EDUC 5131 and EDUC 5133. Two lecture hours a week. Credit: Two 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. Three lecture hours a week. 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. Three lecture hours a week. 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. Three lecture hours a week. Credit: Three hours.

EDUC 5443. 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. Three lecture hours a week. 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. Three lecture hours a week. 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. Three lecture hours a week. Credit: Three hours.

EDSP 5023. Alternative Assessment Strategies. Focuses on development and administration of alternative assessment measures for evaluating academic and vocational goals for individuals with disabilities. Prerequisite: EDUC 5003 or permission of the instructor. Three lecture hours a week. Credit: Three hours.

EDSP 5033. Tests and Measurement for the Exceptional Child. Advanced study in the techniques and procedures for individual education assessment of children and youth with disabilities. Three lecture hours a week. Prerequisite: EDUC 5803 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. Three lecture hours a week. Credit: Three hours.

EDSP 5053. Principles of Learning for Exceptional Children. Review principles learning theories. Application of learning theories to characteristics and educational needs of students with exceptionalities. Application of theories to instruction and behavior management. Three lecture hours a week. Credit: Three hours.

EDSP 5093. Trends and Issues in Special Education. Grouping, placement, and administrative procedures, reporting to parents, use of ancillary and auxiliary personnel, IEP development. Prerequisites: EDSP 5003. Three lecture hours a week. 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. Three lecture hours a week. 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. Three lecture hours a week. 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. Three lecture hours a week. 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. Three lecture hours a week. 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. Prerequisites: EDSP 5003. Three lecture hours a week. 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. Prerequisites: EDSP 5013. Three lecture hours a week. 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. Three lecture hours a week. 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 5803 or permission of instructor. Three lecture hours a week. 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. Three lecture hours a week. Credit: Three hours.

EDSP 5453. Educational Procedures for Adolescents with Special Needs. In-depth study of instructional strategies and programs for adolescents with mild/moderate disabilities. Current issues for educationally at-risk youth, including academic, behavioral, and career planning. Prerequisites: EDSP 5013. Three lecture hours a week. Credit: Three hours.

EDSP 5703. Special Education in Early Childhood. Programs and practices in the identification, assessment, and education of young children with special needs and their families. Emphasis on planning developmentally appropriate inclusive programs for young children. Prerequisite: EDUC 5803 or equivalent. Three lecture hours a week. Credit: Three hours.

EDSP 5713. Assessment and Programming for Young Children with Disabilities. This course focuses on both formal and informal assessment procedures for young children with disabilities, assessment of developmental delays (PDD/Autism) and the design and evaluation of infant and family interventions. Prerequisite: EDSP 5703 or equivalent, permission of instructor. Two lecture hours a week and two laboratory hours a week. Credit: Three hours.

EDSP 5723. Issues and Trends in Early Childhood Special Education. In-depth analysis of current research related to the education of young children with disabilities from birth to 6 years. Legislation and legal issues, family issues, intervention and transition, model programs, and personnel preparation. Prerequisite: EDSP 5703 or permission of instructor. Three lecture hours a week. 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 5023. Three lecture hours a week. 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 502. Three lecture hours a week. 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 5833 and EDSP 5843. Three hours lecture a week. Credit: Three hours.

EDSP 5903. Special Topics. Organized study of a topic in special education. May be repeated. Three lecture hours a week. 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 5923. Practicum. Field placement in an area of 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. 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 Mental Retardation and Developmental Disabilities. Advanced study of etiology, remediation, and education of individuals with mental retardation and developmental disabilities. Prerequisites: EDSP 5303 or equivalent courses and permission of instructor. Three lecture hours a week. 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. Three lecture hours a week. 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 5443 or equivalent course in the area, and permission of instructor. Three lecture hours a week. Credit: Three hours.

EDSP 6503. Seminar in Policies and Procedures of Special Education Administration. Theory, research, and practices related to special education administration. Analysis of administrative behavior, the process of decision making, special education leadership and organizational changes, models of state and federal funding, budgeting, litigating procedures, and program evaluation. Prerequisites: EDSP 5043 or equivalent courses in the area. 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. Three lecture hours a week. Credit: Three hours.

EDSP 6723. Practicum. Field placement. Type of placement will vary with student's area of major concentration and past experiences. Prerequisite: Twelve semester hours of doctoral credit or permission of instructor. Credit: Three hours.

EDSP 6903. Special Topics. Organized study of a topic in special education. May be repeated. Three lecture hours a week. Credit: Three hours.

EDSP 6911. Individual Study. Individual study of special problems in special education. Prerequisite: Permission of instructor. May be repeated. Credit: Three hours.

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/cope/slis/

Faculty: Professors L. Jeng, R. Martin, K. Swigger, S. Vardell; Associate Professor L. Akin; Assistant Professors J. Battle, K. Bray, E. Curry, J. Golden, J. Hilbun, G. Hoffman, H. Lee, E. McElrath, M. Yi.

Graduate Degrees Offered

M.L.S., M.A. in Library Science.

Ph.D. in Library Science.

Graduate Certificate Offered

Post-master's Certificate of Advanced Study.

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
- Graduate School application form
- Official standardized test score (GRE, GMAT, LSAT, MCAT, or Miller's Analogy Test)
- For applications for admission to the master's program, these test scores can be waived for applicants holding a 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. Exceptions on this GPA guideline will be made for those who have earned a minimum of 9 hours of 3.0 or higher graduate-level coursework from an accredited American university, or the equivalent;
- 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;
- TOEFL 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 reference letters.

Applicants must submit the following items directly to the School of Library and Information Studies:

- Three letters of recommendation from professional and/or educational connections who can address the applicant's potential for success in graduate school;
- 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;
- A SLIS application form, available on SLIS website; and
- A Resume (optional).

Doctoral Degree Program

1. Completion of the Application for Admission to the Doctoral Program of the School of Library and Information Studies.
2. A master's degree in library science accredited by the American Library Association, or its equivalent.
3. Letters of recommendation from three references qualified to judge the applicant's professional, academic, and/or research abilities.
4. An interview with the Doctoral Program 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 ad-

dition to the application requirement of the Graduate School, the applicants must submit directly to SLIS an application form for the Certificate for Advanced Study program and three letters of reference.

General Requirements for Masters' 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, 12 hours:

LS 5813 Information Professions

LS 5013 Information Storage and Retrieval Systems

LS 5143 Technical Services

LS 5843 Practicum

Library Science electives, 24 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 18 hours of Library Science electives

Total: 30 hours

Requirements for Dual Master's Degree in Library Science and Health Studies

Required Library Science, 18 hours:

LS 5013 Information Storage and Retrieval Systems

LS 5143 Technical Services

LS 5813 Information Professions

Two of the following:

LS 5253 Electronic Information Resources in the Health Sciences

LS 5363 Health Sciences Information Services

LS 5463 Medical Specialties and Specialized Information Resources

LS 5473 Health Reference Information Sources and Services

LS 5483 Consumer Health Information Resources

One 3-hour elective from Library Science

Required Health Studies, 15 hours:

HS 5353 Epidemiology

HS 5383 Program Development and Coordination

HS 6443 Foundations of Health Science

One 3-hour course from the following:

HS 5363 Community Health

HS 5483 Evaluation in Health Education

HS 6453 Strategies in Health Education Delivery

One 3-hour elective from the following:

HS 5413 Current Issues in Health Studies

HS 5423 Ethnic and Cultural Factors in Health Decisions

HS 6423 Global Health

Additional Requirements: 12 hours:

One 3-hour statistics course

One course in research methods course (Library Science or Health Studies)

Practicum (Library Science or Health Studies)

Professional Paper (Library Science or Health Studies)

Final Examination: The Final Exam comprises submission of a professional portfolio, to be reviewed by the Final Exam Committee.

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, 15 hours:

LS 5813 Information Professions

LS 5013 Information Storage and Retrieval Systems

LS 5143 Technical Services

LS 5753 Research Methods

LS 5843 Practicum

Electives in Library Science and other disciplines, 15 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 and Administration of Library and Information Agencies

LS 6393 Research and Issues in Libraries and Information with a Cultural Context

Two graduate-level research methods courses

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. Three lecture hours a week. Credit: Three hours.

LS 5013. Information Storage and Retrieval Systems. Identification and analysis of components of information systems; principles and techniques for classifying and representing items; information storage models; questions and information needs analysis; operation of manual and automated systems; evaluation of information systems. Three lecture hours a week. 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. Three lecture hours a week. Prerequisite: LS 5143. 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. Three lecture hours a week. Credit: Three hours.

LS 5143. Technical Services. Budgeting, acquiring, organizing, recording and servicing material of all types; investigation of current practices and future possibilities. Three lecture hours a week. 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. Three lecture hours a week. 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 classrooms, libraries, media centers, and network-accessible information sites. Three lecture hours a week. 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. Three lecture hours a week. Credit: Three hours.

LS 5263. Reference. Survey of reference tools; terminology, techniques, and concepts of modern reference service; utilization of databases in the reference process. Prerequisite: LS 5013. Three lecture hours a week. 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. Three lecture hours a week. 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. Three lecture hours a week. 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. Three lecture hours a week. 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. Three lecture hours a week. 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. Three lecture hours a week. 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. Three lecture hours a week. Credit: Three hours.

LS 5383. Library Management. Administrative theory, organizational planning, leadership styles, decision-making, problem solving, operations research, management information systems, other aspects of the management process applied to libraries. Three lecture hours a week. 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. Three lecture hours a week. 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. Three lecture hours a week. 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. Three lecture hours a week. 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. Three lecture hours a week. 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 health-care 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. Three lecture hours a week. 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. Three lecture hours a week. 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. Three lecture hours a week. Credit: Three hours.

LS 5523. Multicultural Librarianship. Identification and selection of materials appropriate for diverse cultures; services and programs in school and public libraries. Three lecture hours a week. 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. Three lecture hours a week. 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. Three lecture hours a week. 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 and techniques 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. Three lecture hours a week. 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. Three lecture hours per week. Credit: Three hours.

LS 5613. Advanced Literature for Children. Modern and traditional literature; recognized authors and illustrators; evaluating materials; factors that influence children's reading; using materials with children; selected readings in professional literature. Prerequisite: LS 5603. Three lecture hours a week. 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. Three lecture hours a week. 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. Three lecture hours a week. 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. Three lecture hours a week. 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. Three lecture hours a week. 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. Three lecture hours a week. 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. Three lecture hours a week. Credit: Three hours.

LS 5753. Research Methods. Methods and techniques of research applicable to problems in library and information studies. Three lecture hours a week. Credit: Three hours.

LS 5813. The Information Professions. Information and the communications model; communications technologies, past, present, and future; the professions and professional development; cultural change and the history of information transfer; preserving freedom of access to information. Three lecture hours a week. Credit: Three hours.

LS 5843. Practicum. Professionally supervised work experience in approved school, public, university, or special libraries. One-hundred and twenty hours of work experience (may be waived if student has had sufficient, appropriate 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. One lecture hour a week. 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 to the individual student. Three lecture hours a week. 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 5973. Professional Paper. 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 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. Prerequisite: LS 5613. 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, 5613, 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,

5613, 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 Dallas-Presbyterian Site, at the Dallas-Parkland Site, 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: CFO 1210

Phone: 940-898-2852

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Website: www.twu.edu/hs/

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
- M.H.A. in Healthcare Administration
- M.O.T. in Occupational Therapy
- 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
- Ed.D. and 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

Chair: Alfred H. White, Professor

Location: MCL 708

Phone: 940-898-2025

Fax: 940-898-2070

E-mail: awhite@mail.twu.edu

Website: www.twu.edu/hs/coms

Faculty: Professors D. Walker-Batson, A. White; Associate Professors C. Gill, D. Grant, A. Lieberth; Assistant Professors T. Allman, E. Armstrong, C. Smith; Assistant Clinical Professors S. Curtis, L. Moorer-Cook, K. Mory, M. Stockholm, A. Woods; Clinical Instructors P. Chance, J. White.

Graduate Degrees Offered

M.S. in Speech-Language Pathology.

M.S. in Education of the Deaf

The primary goal 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 standards established by the American Speech-Language Hearing Association (ASHA) or the Council on the Education of the Deaf (CED). Speech-language pathology students are educated in the nature, evaluation, and treatment of all types of communication problems, which affect interpersonal communication, and to recognize the degree to which they can provide and/or recommend services for habilitation or rehabilitation of persons manifesting such problems. Students preparing to become teachers of the deaf or hard of hearing are educated to understand the social, speech, and language problems associated with various types and degrees of hearing loss. Course work includes methods of teaching speech, language, and content information to persons of all ages whose hearing is not fully functional.

Speech-Language-Hearing Clinic

The TWU Speech-Language-Hearing Clinic serves both children and adults of the University and North Texas community who need therapeutic or evaluation services in the areas of speech, language, feeding, or hearing disorders. Individualized services are provided at reduced rates in the out-patient clinic.

The clinic also serves as a laboratory for graduate students in the Department of Communication Sciences and Disorders. Coupled with practicum facilities in

the Dallas and Fort Worth area, the Clinic serves to enrich students' learning opportunities in the area of communication disorders.

For applications or further information about the Clinic, write TWU Speech-Language-Hearing Clinic at P.O. Box 425737, Denton, Texas 76204-5737, or call (940) 898-2285.

Admission and Retention Requirements

Please see the admissions section of this catalog for admission requirements. To be unconditionally admitted to graduate study in the Department of Communication Sciences and Disorders, a student must meet standards established by the Department and submit two acceptable letters of recommendation from professionals familiar with their academic/professional work. Students unable to meet these admission requirements may be admitted provisionally with approval of the Department Admissions Committee and submission of GRE scores. Students seeking a master's degree in Speech-Language Pathology or the Education of the Deaf and Hard of Hearing must also pass all specified leveling courses with a grade of B or better.

Graduate students should be familiar and comply with the Department Code of Ethics. 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. If a student receives a grade of C or lower in a required course, they 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 procedures manual for their discipline (Clinical Procedures Manual for SLP and Graduate Handbook for Deaf Education) carefully. Failure to adhere to the stated policy for either discipline 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.

General Requirements for All Master's Degrees

Total Hours Required: Varies according to previous academic experience. For graduates from the undergraduate program offered by the Department, a minimum of 44 academic hours are required for Speech-Language Pathology and a minimum of 36 hours are required for those seeking a degree in Education of the Deaf.

Special Requirements: A grade of A or B is required for all courses to be counted toward the master's degree.

Final Examination: May be written or oral, as determined by the Chair of the student's Graduate Committee and may be repeated one time.

Certification Programs Offered

Speech-Language Pathology: ASHA-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.

Minors Offered to Students from Other Departments

None

Courses of Instruction in Communication Sciences and Disorders

COMS 5002. Children's Motor Speech Disorders. Neurological aspects of child motor speech disorders with emphasis on etiology and treatment of cerebral palsy, dysarthria, and dyspraxia. Credit: Two hours.

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 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. 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 5053. 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. Credit: Three hours.

COMS 5201. 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. Credit: One hour.

COMS 5202. Diagnostic Audiology. Current development in diagnostic audiology, psychoacoustics, medical, and rehabilitation aspects of hearing loss. Corequisite: COMS 5212. Two lecture hours a week. Credit: Two hours.

COMS 5212. Clinical Diagnostic Audiology Practicum. Mastery of audiometric equipment and procedures used in basic hearing evaluation of clinic clients. Corequisite: COMS 5202. Six laboratory hours a week. Credit: Two hours.

COMS 5221. Cleft Palate. Embryological development of larynx, face and palate, syndromes, aspects of velopharyngeal competency, the speech/language, audiological, psychological, academic, dental and surgical aspects of cleft palate, evaluation and therapy. Credit: One hour.

COMS 5223. Foundations of Speech-Language Pathology. The professions of speech-language pathology and audiology. Overview to the biological foundations for speech, language and hearing, English sound systems, etiology and treatment of disorders, such as articulation, fluency, voice, swallowing, language and hearing. Three lecture hours a week. Credit: Three hours.

COMS 5302. Diagnostic Procedures in Speech and Language Disorders. Research and development in the evaluation of speech and language disorders. Two lecture hours a week. Credit: Two hours.

COMS 5303. Teaching Deaf/Heard of Hearing Students with Other Disabilities. Information for teaching students with hearing and other disabilities or those mainstreamed into regular education classes. Credit: Three hours.

COMS 5312. Clinical Diagnosis of Speech and Language Disorder Practicum. Mastery of the procedures used in the diagnosis of disorders of speech and language and the interpretation of assessment results. Two laboratory hours a week. Credit: Two hours.

COMS 5333. Speech Diagnosis. 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. Credit: Three hours.

COMS 5353. Dysphagia. Principal issues and research concerning the nature, assessment and treatment of swallowing disorders in children and adults. 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 5501. The Supervisory Process. Critical strategies involved in supervising and providing effective feedback to student clinicians and speech-language pathology assistants. One lecture hour a week. Credit: One hour.

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. Eight laboratory hours a week. Credit: Three 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 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. Voice Science. Basic vocal tract mechanisms with emphasis on respiratory, phonatory, and acoustic aspects of speech. 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. Articulation Disorders. Etiologies and therapies applicable to communication disorders characterized by dysarticulation. Credit: Three hours.

COMS 5573. Voice Disorders. The development of theoretical knowledge base in organic and psychogenic voice disorders which is then applied using evaluation and therapeutic methodology. Prerequisite: COMS 5523. Three lecture hours a week. Credit: Three hours.

COMS 5583. Seminar in Neurological Problems. 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. Principal issues and research concerning the nature of language disorders as well as the 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. Neurological Problems III. Nature, evaluation and treatment of communicative disorders associated with swallow function disorders, right hemisphere injury, traumatic brain injury (TBI) and dementia. Prerequisite: COMS 5583. Three lecture hours a 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 5674. Language Intervention Strategies for the Deaf or Hard of Hearing. Traditional and current methods of language instruction for deaf or hard of hearing children. This course must be taken in both fall and spring semesters in the same academic year. Prerequisite: Acceptance into the certification program for education of the deaf or hard of hearing. Minimum of two lecture and three laboratory hours a week. Credit: Four 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 5733. Phonetics and Phonology of Speech. Overview and practice in transcribing normal and disordered speech in words, phrases, and sentences using the International Phonetic Alphabet. Three lecture hours a week. Credit: Three 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 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: Kelley Moseley, Professor

Location: IHSH 7010

Phone: 713-794-2061

Fax: 713-794-2350

E-mail: hcahouston@twu.edu

Website: www.twu.edu/hs/h-hca

Faculty: Professor K. Moseley; Associate Professor G. Goodman; Assistant Professors A. Selcer, K. Tsai; Assistant Clinical Professor M. Phelps.

Graduate Degree Offered

Master of Healthcare Administration (MHA)

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 program is accredited by the Commission on Accreditation of Healthcare Management Education.

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 – History and organization of the health care system, financing, and utilization of health services, health status and disease occurrence, legal aspects of health care. Government health policy formulation and implementation and its impact on health care organizations.

Financial Management and Economics – Accounting and financial management tools for health care administrators, budgeting, financial analysis, costing, variance analysis, capital structure and performance measurement. Fundamentals of economic theory, markets for medical care, health insurance and economic analysis in decision making.

Management – Organization theory and behavior, health care planning and marketing, human resource management, and leadership, managerial communications, ethics, and strategic management.

Decision Tools and Information Management – Application of quantitative and qualitative methods to solving health care management problems, operations research, research design and analysis, epidemiology, information systems, and performance and quality assessment.

Admission Requirements

Applications for graduate study are accepted for Fall, Spring and Summer semesters. Completed applications should be submitted to the Office of Student Records prior to:

- June 30 for Fall Semester
- October 30 for Spring Semester
- March 30 for Summer Semester

Applicants may be admitted for graduate study in Health Care Administration either unconditionally or provisionally. All applicants must submit the following documentation.

1. An application for admission
2. Evidence of an earned bachelor's degree and complete official transcripts of all undergraduate and graduate study
3. Resume
4. Three letters of reference
5. Scores of GRE or GMAT tests

Admission is based on an evaluation of the applicant's educational and work history and potential to successfully undertake graduate study. Applicants must demonstrate evidence of prior academic and work success, and leadership ability. Prior health care experience is preferred but not required.

GRE/GMAT scores will be evaluated to determine admission status and to facilitate degree planning.

In addition, international applicants must adhere to English Language requirements of the graduate school. Applicants may request a waiver of the GRE/GMAT requirement when applying to the Health Care Administration program. Waivers may be granted if the applicant has completed a **graduate** degree from an accredited U.S. college or university with a grade point average of at least a 3.0.

Unconditional admission is available to applicants who have attained an undergraduate GPA based on the final 60 hours of 3.0 or greater and a minimum of 3.0 for graduate work and presented evidence of outstanding academic and work or life experiences that demonstrate potential for leadership in the health services environment.

Provisional admission may be permitted for applicants who have an undergraduate GPA based on the final 60 hours of less than 3.0. Granting of provisional admission status is dependent on evidence submitted by the applicant of an outstanding record of work or life experiences that demonstrate potential for leadership in the health services environment and the potential for success in graduate study. Students admitted provisionally must achieve a grade of B or better in each course taken during the first 12 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.

Advanced standing may be granted to applicants who hold a MBA from an accredited business school earned within the past 10 years. Students holding a master's degree in Public Administration or Public Health from an accredited school of public administration or public health may also be eligible for waiver of certain foundation and core courses based on individual analysis of their complete graduate courses.

Students who have completed the MBA at Texas Woman's University may be eligible for award of up to 12 hours of transfer credit toward the MHA degree subject to graduate school policies.

Once admitted to the MHA program, all students are required to attend an orientation prior to beginning classes.

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 5213 Managerial Communications
- HCA 5223 Organization Theory
- HCA 5463 Research Methods
- HCA 5513 Financial Accounting

Total Hours Required: Minimum of 43 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 5103 Foundations of Health Services
- HCA 5193 Health Law
- HCA 5253 Organizational Behavior in Health Care Administration
- HCA 5343 Human Resource
- HCA 5362 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 and Management Science
- 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 5932 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.

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.

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 the first 24 credit hours of study. In addition many courses include fieldwork projects, tours and assessments of local health care organizations. A maximum of 3 semester credit hours may be earned in fieldwork or internship and applied toward the degree.

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.

MHA/MBA Degree Program Agreement

By special agreement, students in the Health Care Administration program of Texas Woman's University are provided an opportunity to concurrently obtain an MBA 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 MHA and specialized training provided by the MBA program. Students first apply and are accepted into Texas Woman's University MHA program. After successfully completing the foundation courses and eight HCA core courses, students may apply to the Cameron School of Business. As students are accepted into the MBA program, they are notified of specific coursework requirements they must meet to complete MBA requirements.

Certificate in Health Care Management

The Department of Health Care Administration offers a 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 18 graduate-level credit hours. Students who wish to pursue a master's degree in health care administration at TWU at a later time may apply these credit hours toward their degree requirements if all course work for the degree is completed within a six-year period.

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:

June 30 for fall semester enrollment
 October 30 for spring semester enrollment
 March 30 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 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.

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. 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: Completion of 12 semester hours of HCA courses or permission of instructor. Three lecture hours a week. Credit: Three hours.

HCA 5362. Leadership and Career Development in Health Care Administration. The leadership process and development of self-awareness and skills necessary to lead. Career development topics include developing a career statement, goal setting, job search strategies, networking, preparing resumes and cover letters, conducting organizational research and interviewing skills. Prerequisites: HCA 5223 and completion of 12 hours of HCA courses. Two lecture hours a week. Credit: Two 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: Completion of 12 semester hours in Health Care Administration 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: Completion of all HCA courses except HCA 5932. Three lecture hours a week. Credit: Three hours.

HCA 5452. Statistics for Health Care Administrators. Application of quantitative techniques to the solution of the problems of health services. Foundation topics include decision making methods, optimizing, data classification, measures of central tendency, variability, probability, sampling and estimation, hypothesis testing, analysis of variance, linear regression, and forecasting. Two lecture hours a week. Credit: Two hours.

HCA 5462. Operations Analysis. Application of management science and operations research techniques to the solution of the problems of health services. Applications include forecasting, queuing, inventory management, simulation, linear programming, decision models and project scheduling. Prerequisite: HCA 5452 Statistics. Two lecture hours a week. Credit: Two hours.

HCA 5463. Research Methods in Health Care Administration. The research process and models available to conduct health services research. Topics include problem identification, computerized literature search, critique of research, theoretical and conceptual frameworks, research questions and hypothesis testing, research design, methodology, data analysis techniques and ethical issues in research. Prerequisites: Knowledge of basic Excel. Three lecture hours a week. Credit: Three hours.

HCA 5472. Health Information and Management Science. The role of information systems and decision-making models in health care organizations. Health information topics include computer hardware and software, planning information processing, clinical and administrative systems, methods to support decision making, vendor evaluation and selection, project management. Management science topics include performance measurement, linear programming, sensitivity analysis, integer and goal programming. Prerequisites: HCA 5103, HCA 5223, HCA 5452 Statistics, HCA 5462. 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. 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. 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 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 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 5932. 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. Two lecture hours a week. Credit: Two 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 all core/required 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 24 semester hours 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

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Faculty: Professor G. James; Associate Professors M. Massey-Stokes, R. Shipley, K. Wiginton; Assistant Professors S. Cardenas, D. Coyle, J. Early, A. Love; Visiting Assistant Professor 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 Programs

The Health Studies Doctoral Program is built upon the Bachelor of Science in Health Studies Program's 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 450 on the verbal portion and 400 on the quantitative portion of the Graduate Record Examination (GRE), 4.5 on the analytic portion of GRE and, for international students, a minimum score of 550 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 (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 300-word written 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 score, academic background and professional and volunteer experience,

*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).

and written 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 and Doctor of Education 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 475 on the verbal portion and 400 on the quantitative portion of the Graduate Record Examination (GRE), 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-word essay.

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 and professional and volunteer experience, and written essay.

General Requirements of Master's Degree

Total Hours Required: 42 hours consisting of:

21 hours core courses

6 hours focal area courses for thesis option and 9 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: 6-9 hours from one of three focal areas offered among higher education, community/population health, or worksite health.

Residence Requirement: Attendance at a minimum of one HS Graduate Colloquium during first year in the program.

Prerequisites or Corequisites: 1) A bachelor's degree in the field of health education/health promotion or related field and 2) HS 5003 Practicum in Health Education must be taken after core courses are completed by students without CHES certification, and 3) Attendance of HS Graduate Colloquium within one year of admission.

Final Examination: For thesis option the defense of thesis; for non-thesis option a written comprehensive examination based on the core coursework in required. Students taking the comprehensive examination are required to score 70% or better and it may be taken more than once. The examination will be given at the close of HS 6483.

General Requirements for Dual Master's Degree in Health Studies and Library Science

Total Hours Required: 45 consisting of:

Required Library Science Courses - 18 credits

LS 5013 Information Storage and Retrieval
LS 5143 Technical Services
LS 5813 Information Professions

Two of the following - 6 credits

LS 5253 Electronic Information Resources in the Health Sciences
LS 5363 Health Sciences Information Resources
LS 5463 Medical Specialties and Specialized Information Resources
LS 5473 Health Reference Information Sources and Services
LS 5483 Consumer Health Information Resources

One 3-hour elective from Library Science Department

Required Health Studies Courses - 15 credits

HS 5353 Epidemiology
HS 5383 Program Development and Coordination
HS 6443 Foundations of Health Science

One of the following (3 credits):

HS 5363 Community Health
HS 5483 Evaluation in Health Education
HS 6453 Strategies in Health Ed Delivery

One 3-hour elective from the following choices:

HS 5413 Current Issues in Health Studies
HS 5423 Ethnic and Cultural Factors in Health Decisions
HS 6423 Global Health

Additional Requirements - 12 credits

One 3-hour statistics course

One 3-hour research methods course (Library Science or Health Studies)

Practicum (Library Science or Health Studies)

Professional Portfolio (Library Science)

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 450 on the verbal portion of the Graduate Record Examination (GRE)*; 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 and volunteer experience for master's study in health studies.
- Two recommendations completed within the past 12 months by faculty members, academic advisers, or employers.
- A 300-word written essay.
- Admission to both programs

Major/Emphasis: none

Residence Requirement: Attendance at a minimum of one *HS Graduate Colloquium* 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 and computer tools

6 hours dissertation in addition

6 hours electives

Major/Emphasis: 9 hours from one of three focal areas: higher education, community health, or health leadership.

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 and Computer Tools: 6 hours of research methods and 6 hours of statistics (or pass a statistics competency test). 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) attendance of *HS Graduate Colloquium* within one year of admission and one during the last year of coursework.

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: HS 5013. Prerequisite of 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. Prerequisite: HS 5343. Three lecture hours a week. 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 5973. Professional Paper. Credit: Three 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. Prerequisite or Corequisite: One graduate-level statistic course. 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. Co-requisite: HS 5483 (proposed 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 5413, HS 5353, HS 6443, HS 5423, HS 6453, HS 5383. 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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Faculty: Professors V. Ben-Ezra, R. Davis, R. French, J. Ishee, Y. Kwon, B. Myers, C. Sanborn; Associate Professors K. Biggerstaff, K. Miloch, D. Nichols, T. Senne, L. Silliman-French; Assistant Professor S. Ford.

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 Sport Nutrition.

Ph.D. in Kinesiology. Instruction available in the support areas of Adapted Physical Education, Sport Management, Biomechanics, and Exercise Physiology.

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. Hold an earned bachelor's degree or equivalent from a U.S. college or university accredited by a regional or general accrediting agency, or an equivalent degree from a foreign college.
2. Have a minimum 3.0 GPA for the last 60 hours of undergraduate study and a minimum 3.5 GPA for all prior graduate work. The Department of Kinesiology may choose to consider files of applicants with lower GPAs.
3. 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.
4. The applicant will present at least 6 hours of course work in Kinesiology. Each specialization will determine the appropriateness of additional requirements for the student.

5. The applicant will submit a vita/resume with special emphasis on training and work experience in physical education or related areas.
6. The applicant will specify an area of specialization (Adapted Physical Education, Biomechanics, Coaching, Exercise Physiology, Sport Management, or Pedagogy).
7. Any applicant may submit additional materials that they deem appropriate to his/her application.
8. The appropriate faculty admissions committee will review the total application.

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, 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. Hold an earned bachelor's degree or equivalent from a U.S. college or university accredited by a regional or general accrediting agency, or an equivalent degree from a foreign college or university.
2. Have a minimum 3.0 GPA for the last 60 hours of undergraduate study and a minimum 3.5 GPA for all prior graduate work. The Department of Kinesiology may choose to consider files of applicants with lower GPAs.

3. 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.
4. The applicant will present at least 6 hours of course work in Kinesiology. Each specialization will determine the appropriateness of additional requirements for the student.
5. The applicant will submit a vita with special emphasis on training and work experience in physical education or related areas.
6. 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.
7. The applicant will specify an area of specialization (Adapted Physical Education, Sport Management, Biomechanics, Exercise Physiology).
8. The applicant will have a formal interview with the Doctoral Admission Committee (or its designated representatives).
9. 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.
10. Any applicant may submit additional materials that they deem appropriate to his/her application.
11. 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 -- June 30

For admission for the following spring semester -- November 1

For admission for the following summer semester -- April 1

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, one of the divisions of the Institute 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-Ft. Worth metroplex, and a thesis or a professional paper. The course of study

will include Research Methods, Statistics, Graded Exercise Testing, Strength and Physical Fitness, Advanced Nutrition, Cardiovascular Response to Exercise, Body Composition and Weight Management, Nutrition and Exercise, Effect of Nutrition and Exercise in the Disease State, and Advanced Analysis of a Small Business.

General Requirements for Master's Degree in Kinesiology

Total Hours Required: 30-36 hours.

Core: 6 hours

Major/Emphasis: An area of emphasis may be selected but is not required. 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 dance, health, physical education, and recreation. 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 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 5233. Tactics and Strategies II. In-depth study of offensive concepts and systems 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 405). Credit: Three hours.

KINS 5283. Systematic Observation of Sport. Principles of observation and analysis of sport in the context of competitive events. Students will apply these principles as they evaluate techniques, tactics and strategies of competitive teams/athletes. Requirements include successful completion of the appropriate professional 24-hour inservice module (NFCC 408) and online assignments. 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 5653. Strength and Physical Fitness Development. Types of strength;

theoretical bases of strength development; concept of hypertrophy; recognition of the components of physical fitness; development and evaluation of physical fitness programs. Three lecture hours a week. Credit: Three hours.

KINS 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 per 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 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 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 musculoskeletal modeling. Prerequisite: KINS 5513. Three lecture hours a week. Credit: Three hours.

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- & 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 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

Chair: Chandan Prasad, Professor

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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 food service management, nutrition education and food sciences. The departmental web site references specific research areas of faculty at www.twu.edu/hs/nfs.

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 Food Systems Administration is offered as an online degree program.

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
Human Physiology	3
Introduction to Nutrition	3
Upper Level Nutrition	6

Food Science

(M.S. and Ph.D. in Nutrition with Food Science Emphasis)*

Chemistry	9
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 Food Service Management and/or Business	6

*Applicants applying to the PhD. in Nutrition with Food Science emphasis should meet prerequisite requirements for both Nutrition and Food Science. Applicants applying to the PhD. 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.
2. Evidence of completing the Graduate Record Examination with a preferred minimum score of 350 on the verbal portion and 450 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.

Applicants who meet all other requirements but lack up to 6 credit hours of prerequisite undergraduate courses may be admitted provisionally to a master's program.

Doctoral Admission

For *unconditional admission*, applicants must present:

1. Official transcripts that show evidence of prerequisite courses and at least a 3.5 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 450 on the verbal portion and 550 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 and 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 professional paper option should reflect a minimum of 36 semester hours; a maximum of 6 hours of independent study/cooperative education/internship experience; and 3-6 hours of professional paper. 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. Additional information is available on the department's website at www.twu.edu/hs/nfs/grad1.htm.

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 or professional paper options will appear in a final oral examination that should not exceed two hours and may not be taken more than twice. Students with the course only option must take a written 'exit exam.' Additional information is available on the department's website at www.twu.edu/hs/nfs/grad1.htm.

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 3.0 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 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 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.

Total hours required: a minimum of 40-42 hours with thesis or professional paper and practicum are required.

Core:

- NFS 5314. Human Nutrition and Metabolism
- NFS 5363. Human Nutrition and Disease
- NFS 5583. Nutrition and Exercise
- NFS/KINS 5663. Body Composition and Weight Management
- NFS/KINS 5681. Practicum in Exercise and Sports Nutrition -
register three times

KINS 5023. Methods of Research
 KINS 5033. Applied Statistics
 KINS 5553. Advanced Exercise Physiology
 KINS 5613. Cardiovascular Response to Exercise
 HS 5613. Worksite Health Promotion

The degree plan must be approved in a meeting with all members of the Advisory Committee. Members must approve changes.

Dual Degree: M.S. in Food Systems Administration and Master of Business Administration (MBA)

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 on a 4.0 scale for the last 60 undergraduate hours
4. Evidence of completing the Graduate Record Exam (GRE) with preferred minimum scores of 350 on the verbal portion and 450 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 either 6 hours of thesis or 3 to 6 hours of professional paper.

Food Systems Administration (15-18 hrs)

NFS 5713 Human Resource Mgmt in Nutritional Care Systems*
 NFS 5733 Quality and Productivity of Foodservice Systems
 NFS 5763 Food Safety/Foodborne Illness
 NFS 5773 Organization and Mgmt of Foodservice Systems
 NFS 5793 Computer Applications in Institutional Administration
 NFS 5753 Foodservice Facility Design and Mgmt

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 (9 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/hs/nfs/grad1.htm.

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 Program in Healthcare Administration, and/or School of Management.
- 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 consecutive days. The student must satisfactorily pass the written examination before the oral examination can be scheduled. The oral examination should be held within 4 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/hs/nfs/grad1.htm.

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/Ft. Worth metroplex, offers two Master's-Dietetic Internship programs. These are the TWU Combined Master's Dietetic Internship Program-Denton campus and the TWU Combined Master's Dietetic Internship Program-Houston Center. The Houston Center also offers the academic component for The Coordinated Dietetic Internship-Master's Degree Houston Veteran's Affairs Medical Center Program.

The TWU Dietetic Internships Programs have been granted accreditation status by the Commission on Accreditation for Dietetics Education of The American Dietetic Association, 120 S. Riverside Plaza, Suite 2000, Chicago, IL 60606-6995, 312/899-0040, a specialized accrediting body recognized by the Council on Post-secondary 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 American Dietetic Association.

Further information and application forms may be obtained from the program directors (or on-line at www.twu.edu/hs/nfs) and submitted before the deadline date (mid-February) as indicated on the application form.

Director, Dietetic Internship
TWU Combined Master's Dietetic Internship Program
Department of Nutrition and Food Sciences
P.O. Box 425888
Denton, TX 76204-5888
E-mail: nutrfdsci@twu.edu

or

Director, Dietetic Internship
TWU Combined Master's Dietetic Internship Program
Department of Nutrition and Food Sciences
6700 Fannin St.
Houston, TX 77030-2343
E-mail: nfs-houston@twu.edu

or

Director, Dietetic Internship
Houston 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 Physiology, Introduction to Nutrition, Advanced Nutrition, 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 Introduction to Nutrition 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 hours upper level undergraduate nutrition courses. Four lecture hours a week. Credit: Four hours.

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. One lecture hour a week. Credit: One hour. May be repeated for five additional hours of credit.

NFS 5331. Seminar in Nutrition. Current research in nutrition and nutritional care. Credit: One hour. May be repeated for five additional hours of credit.

NFS 5343. Advanced Nutritional Care. Nutritional care including diet therapy; current research in dietary care; dietary treatment of metabolic diseases. Prerequisite: NFS 5313 or permission of instructor. Three lecture hours a week. Credit: Three hours.

NFS 5363. Human Nutrition in Disease. The nutritional management of patients with acquired disease, including cardiovascular disease, cancer, and urological disorders. Prerequisite: NFS 5313 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 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. 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 3103 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. Pre- or corequisite: NFS 5363. Three clinical hours a week. May be repeated for additional credit. 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. Pre- or corequisite: NFS 5363. Six clinical hours a week. May be repeated for additional credit. Credit: Two hours.

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. 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 5313. Two lecture and two laboratory 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 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. One lecture hour a week. Credit: One hour. May be repeated for three additional hours of credit.

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 5793. Computer Applications in Food Systems Administration. Introduction to computer use in the area of institutional administration for purposes of data management, managerial decision making and problem solving. Selection and purchase of computer hardware and software. Discussion of current issues regarding computer use. Students will improve skills in selected software applications such as nutrient analysis, foodservice production, spreadsheet processing, presentation, database management, and web design. Two lecture and two practicum 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. May be repeated for credit. Twelve clinical hours a week. Credit: Three hours.

NFS 5833. Principles of Clinical Instruction in Nutritional Care. Experiential development of skills and evaluation techniques for clinical instructors in ADA approved programs. Nine clinical hours a week. May be repeated for additional credit. 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. 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 epidemiological and etiological aspects of human cancer; effects of nutrients on carcinogenesis and chemoprevention; nutritional care of the cancer patient; current progress in research into nutritional intervention. Prerequisite: NFS 5313 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 5313. 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 5313. 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 5313 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 5313. 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 chromatography), nucleic acid (Northern Blot, Southern Bolt, apoptosis), and lipid/lipoproteins; cell culture techniques; high pressure liquid chromatography; cell separation and fractionation; gas chromatography-mass spectrometry. 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 modified course will accommodate both doctoral and master 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 5313 (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

Director: Sally Schultz, Professor

Location: MCL 615

Phone: 940-898-2801

Fax: 940-898-2806

E-mail: ot@twu.edu

Website: www.twu.edu/ot

Associate Director:

Dallas: C. Candler, Associate Professor

Phone: 214-706-2350

Houston: P. Bowyer, Associate Professor

Phone: 713-794-2128

Faculty: Denton - Professor S. Schultz; Associate Professor C. Evetts; Associate Clinical Professors J. Aven, D. Brown, S. Harnish, M. McClung, E. Raffin.

Dallas - Associate Professors R. Campbell, C. Candler, M. Neville-Smith; Assistant Professor N. Pickens; Assistant Clinical Professors D. Buckingham, T. Fletcher; Clinical Instructor J. Lipoma.

Houston - Professors J. Chan, G. Hersch; Associate Professors F. Baxter, J. Bowman, P. Bowyer, H. Davidson, K. Reed; Assistant Professors P. Chang, T. Smith.

Graduate Degrees Offered

M.O.T. entry-level professional degree provides eligibility for certification by NBCOT.

Ph.D. degree in occupational therapy.

Graduate Certificates Offered

Advanced Pediatric Therapy

School-Based Therapy

Advanced Studies in Upper Extremity Rehabilitation

The Texas Woman's University School of Occupational Therapy is ranked as one of the nation's top graduate programs in occupational therapy in the U.S. News and World Report—Graduate Schools survey of more than 150 private and public programs. TWU offers degree programs leading to the Master of Occupational Therapy, and Doctor of Philosophy in Occupational Therapy. The Master of Occupational Therapy degree has been offered for more than 30 years. The School of Occupational Therapy offers a variety of post-professional certification specialties. Texas Woman's University offers the only Ph.D. in Occupational Therapy in

a state-supported university in the United States.

The occupational therapy programs are available at the main campus of Texas Woman's University in Denton, the TWU Institute of Health Sciences in Dallas, and the TWU Institute of Health Sciences in Houston. 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. Videoconference and online components supplement traditional classroom learning.

Clinical experiences are important to the occupational therapy curriculum. The School of Occupational Therapy has affiliations with medical and community-based programs in the Denton, Dallas and Houston areas. Regularly scheduled practicums (Level I Fieldwork) begin in the first semester and continue throughout the academic portion of the program. The School of Occupational Therapy has extensive placement opportunities for Level II Fieldwork (two consecutive 3-month internships).

The School of Occupational Therapy has 25 full-time graduate faculty positions. The occupational therapy faculty have authored textbooks and chapters/sections of textbooks that are widely-used across the nation. They have numerous articles in a wide range of professional journals. Faculty members hold leadership positions in national, state and local professional organizations. These faculty are the instructors for entry-level courses as well as for the post-professional occupational therapy courses.

Overview of Degrees offered in Occupational Therapy

The Master of Occupational Therapy (MOT) degree is an entry-level degree that prepares students with baccalaureate degrees in other fields to become occupational therapists. In 2001, the MOT program received a ten-year (the highest level) re-accreditation by the American Council for Occupational Therapy Education (ACOTE 301-652-6611). Graduates of the program are eligible to sit for the national certification examination administered by the National Board of Certification of Occupational Therapy (NBCOT). Successful completion of this exam qualifies the individual as an Occupational Therapist, Registered (OTR). The NBCOT examination currently serves as the licensing examination for individual states. Persons convicted of felonies may be ineligible to sit for the certification exam. For further information, contact the NBCOT at www.nbcot.org.

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 intellectual and leadership skills toward advanced academic and research pursuits. The program is based on the nationally recognized Theory of Occupational Adaptation, which was developed by TWU faculty. Numerous book chapters, articles, and national presentations have been completed in

this area of research. The doctorate is offered via video-conference, on-line, and on-campus learning experiences.

Advanced Practice – Graduate Certificates

Graduate level coursework is offered for occupational therapists who want to develop expertise in a particular area of practice. The current practice areas are Advanced Pediatrics, School-based Therapy, and Upper Extremity Rehabilitation. Each specialization consists of 12 semester credit hours. These certificates are offered online. Select courses may require a one time on campus visit of 1-4 days. The certificates consist of 12 graduate credit hours.

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 – applicants with a bachelor's degree

Applicants must complete the following prerequisites prior to beginning MOT courses: statistics, human anatomy and physiology, sociology, developmental psychology, abnormal psychology, and neuroanatomy and physiology. The neuroanatomy and physiology may be taken in the first semester of occupational therapy graduate coursework at the Dallas and Houston centers, however, it is recommended that prospective students complete the prerequisite prior to program entry. 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. Students may select either the Dallas or Houston campus. Fall only admission.

Master of Occupational Therapy - applicants pursuing a combined BS/MOT

Undergraduate students on the Denton campus can prepare for accelerated admission into the Denton MOT program by completing a core group of courses at TWU. Undergraduate degree plans in health studies, child development, family studies, kinesiology and psychology have been tailored to complete the respective degree, and satisfy the MOT prerequisites as part of the B.S. degree. A minimum grade of B is necessary with no more than two attempts at any course content is required in OT prerequisites. Students are able to complete part of the MOT coursework during the last year of core coursework. Contact the undergraduate BS-MOT advisor in the respective department for specifics. The remainder of the MOT courses must be completed as a graduate student. Six months of internship is required after classroom coursework is completed. This combined degree program accelerates progressing into the MOT program and is a significant cost saving. Students apply to enroll in the OT coursework in the spring semester of

their junior year. Admission is highly competitive. Fall only admission into the OT coursework.

Master of Occupational Therapy – weekend/online program for COTAs

This is a part-time weekend/online program for MOT applicants who are Certified Occupational Therapy Assistants and who hold a bachelor's degree in another field. Applicants must complete the following prerequisites prior to beginning MOT courses: statistics, human anatomy and physiology, sociology, developmental psychology, neuroanatomy and physiology, and abnormal psychology. Neuroanatomy is a prerequisite, however it may be completed in the student's first semester. It is not necessary to have all prerequisites completed at the time of application. Some foundational MOT coursework may be satisfied by the COTA's prior education in OT. Students complete six semesters of part-time coursework and six months of internship. This program is offered only on the Denton campus. Fall only admission into the OT courses. As this program is designated as distance learning degree program, non-resident students may qualify for in-state tuition.

Doctor of Philosophy

Admission requirements include (a) master's degree in occupational therapy or a related field; (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 PhD 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: 78 hours

Special Requirements:

1. All academic courses must be completed successfully before admission to Level II fieldwork experiences.
2. All academic courses must be completed within no more than 36 consecutive months.
3. Each student must present proof of ownership of malpractice insurance available in the state of Texas each academic year of enrollment.

4. Proof of immunizations is required as mandated by the state of Texas, OSHA, and Texas Woman's University upon beginning OT courses.
5. A grade of C or better must be earned in each semester's required courses and a semester GPA of 3.0 must be maintained. Students who do not satisfy this standard will not be allowed to progress into the next semester of the MOT curriculum.
6. A required course may be repeated one time only. Permission to repeat the course must be obtained from the Director of the School of Occupational Therapy.
7. The responsibility of meeting the admission requirements of agencies providing fieldwork placement belongs to the student. The School of Occupational Therapy does not guarantee student fieldwork placement. Inability to complete fieldwork requirements may result in a delay or failure to complete the MOT degree program.
8. 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.
9. A student failing to complete said fieldwork experience satisfactorily on the second attempt shall be terminated from the program.
10. All fieldwork experiences should be completed within 24 months following completion of academic preparation.

Final Examination: Successful completion of mentored work or other options offered by the School of OT. The final exam requirement must be completed before starting any FWII.

Master of Occupational Therapy Curriculum Design

The School of Occupational Therapy offers a curriculum that integrates attention to contemporary concerns in health care and changing paradigms of service delivery with the enduring values of the profession. The curriculum facilitates scholarly inquiry at all levels, enhances the practice of occupational therapy in a variety of contexts, and focuses on the importance of occupations in people's lives. The curriculum is sequential. All required courses in each semester must be completed successfully to progress into the next semester.

The curriculum (see Figure 1) is organized around three domains or broad areas of content: occupation, process, and practice. Within these three domains, there are two strands of content that run longitudinally through the curriculum. The Occupation Domain consists of the theoretical bases of practice and the occupational adaptation strands. The Process Domain focuses on principles of intervention and scholarly inquiry. The Practice Domain is comprised of tools and modalities used in practice and the fieldwork or clinical courses. 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—occupational adaptation, theory, scholarly inquiry, application, and clinical experiences—that increase in complexity as the student progresses through the curriculum.

TWU School of Occupational Therapy

Model of Curriculum Design

Figure 1 – Curriculum Content

DOMAINS:	<i>Occupation</i>		<i>Process</i>		<i>Practice</i>	
STRANDS:	Theoretical Base*	Occupational Adaptation*	Principles of Intervention*	Scholarly Inquiry*	Tools-Modalities*	Fieldwork I-II
Module I	OT Knowledge Base/Practice	Occupational Wellness	Assessment	Scholarly Inquiry Sem.	Persons/Tools Occupations	Level I- Adaptation in Community
Module II	OT Practice Models	Birth to Adolescence	Movement in Context	Quantitative & Qualitative Research	Ways of Doing Contexts	Level I- OA in Context
Module III		Adolescence to Middle Adulthood	Advanced OT Process	Mentored Work		Level I- OA in Context
Module IV		OA-Middle & Late Adulthood	Design Evaluation & Managing Systems	Mentored Work	Specific Tools of Practice	Level I- OA in Context
Module V						Level II- Fieldwork

* Students select two Issues courses from 1 or 2 of the curriculum strands or other approved graduate level electives.

** Each module is an integrative learning experience extending across each of the strands and into fieldwork experience. Knowledge and competencies acquired in each module are further developed and refined as the student progresses from semester to semester.

Courses for the Master of Occupational Therapy degree (Dallas/Houston) must be taken in the following sequence. All courses within each semester must be successfully completed before the student can progress into the next semester. All degree requirements must be completed within 6 years of registration in the first course counted toward the degree.

Year I

First Semester

OT 5163
OT 5122
OT 5132
OT 5141
OT 5161
OT 5352
***ZOOL 3123
***ZOOL 3121
15 credits

Second Semester

OT 5312
OT 5322
OT 5324
OT 5342 or OT 5542
OT 5332
OT 5512
OT 5361
**OT 5012 or OT 5102
*Issues
17 or more credits

Summer

OT 5542 or OT 5342
OT 5532
**OT Mentored Work
*Issues
4 or more credits

Year II

<i>First Semester</i>	<i>Second Semester</i>	<i>Fieldwork II</i>
OT 5522	OT 5722	Option 1. OT 5916
OT 5524	OT 5724	OT 5926
OT 5551	OT 5753	Option 2. OT 5936
OT 5561	OT 5761	OT 5946
OT 5732	**OT 5032 or OT 5302	Option 3. OT 5956
**OT 5022 or OT 5202	<u>*Issues</u>	OT 5966
<u>*Issues</u>	12 or more credits	Option 4. OT 5976
12 or more credits		OT 5986
		6 months full-time training (24 credits)
		All students must select Option 1. The second course can be selected from Options 2, 3, or 4.

*Issues Courses: must complete a total of 4 credits in elective coursework before beginning Fieldwork II.

**Students must complete 6 credit hours of mentored work and the final examination on or before the School of OT published deadlines prior to beginning Fieldwork II.

***May be completed as a prerequisite.

General Requirements for Doctor of Philosophy in Occupational Therapy

Total hours required: A minimum of 60 hours beyond the master’s degree is required. A core curriculum consisting of 36 hours includes 12 hours of dissertation. In addition, the student must complete 12 hours of research courses and 12 hours of electives. OT 5203 Research in Occupational Therapy and OT 5313 Instruction and Supervision Techniques in Occupational Therapy may be required if these courses or the equivalent have not been taken previously. The entire program must be completed within 10 years of registration in the first course counted toward the degree.

Qualifying Examination:

A written qualifying examination consisting of three parts must be completed prior to admission to degree candidacy. One part deals with general knowledge in occupational therapy, one with the student’s area of emphasis, and one with a body of related knowledge from disciplines outside occupational therapy. The qualifying examination may be repeated once if necessary.

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

Final Examination:

Doctoral candidate must demonstrate successful completion and oral defense of their dissertation. The defense may be repeated if necessary.

<i>Courses</i>	<i>Semester Hours</i>
OT 6223 Theory and Knowledge in the Development of OT	3
OT 6233 Origin and Evolution of Concepts of Occupational Adaptation	3
OT 6333 Occupational Environments	3
OT 6343 Theory of Occupational Adaptation	3
OT 6553 Advanced Research Design in Occupational Therapy	3
OT 6563 Programmatic Research Planning	3
OT 6823 Current Issues in Occupational Therapy	3
Practicum in Occupational Therapy Education	3
At least one of the following is required:	
OT 6423 Innovative Teaching Methods	
OT 6433 Teaching Practicum in OT	
OT 6443 Practicum in Supervision of Individual Study	
OT 6453 Practicum in OT Curriculum Evaluation	

Research Tools:

Quantitative Methods	6
Two of the following courses are required: PSY 5304, PSY 6203 or PSY 6213 or equivalent	
Assessment in Occupational Therapy	6
OT 6623 Instrumentation for Measuring Occupational Performance	
OT 6643 Qualitative Methods in OT	

<i>Electives:</i>	12
Courses must be appropriate to the student's area of specialization and approved by the Advisory Committee; Six hours must be taken outside of occupational therapy	

<i>Dissertation:</i>	12
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Minimum Total Hours.....	60
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Minors Offered to Students from Other Departments

None.

Courses of Instruction in Occupational Therapy

OT 5012. Systematic Inquiry in Occupational Therapy I. Preparation and beginning participation in a faculty sponsored project relevant to the practice of occupational therapy utilizing a documented and referenced method of systematic inquiry. Students will acquire content knowledge critical to the work and demonstrate understanding of the method of systematic inquiry utilized. Credit: Two hours.

OT 5022. Systematic Inquiry in Occupational Therapy II. Participation in the implementation of a faculty sponsored project relevant to the practice of occupational therapy utilizing a documented and referenced method of systematic inquiry. Students will participate 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 5032. Systematic Inquiry in Occupational Therapy III. Completion and participation in the documentation and dissemination of a faculty sponsored project relevant to the practice of occupational therapy utilizing a documented and referenced method of systematic inquiry; basics of grant funding. Credit: Two hours.

OT 5102. Professional Paper in OT I. Preparation and beginning participation in a faculty sponsored research endeavor relevant to the practice of occupational therapy and utilizing a documented and referenced method of systematic inquiry. Students will acquire content knowledge critical to the work, demonstrate understanding of the method of systematic inquiry utilized, and apply this knowledge independently in a written format. Credit: Two hours.

OT 5103. School-Based Practice: Applied. Completion of a project in the public schools that adds to the body of knowledge concerning occupational therapy practice in that setting, and strengthens current school based practice arenas. Course may be repeated once for credit. Prerequisites: OT 5143, OT 5153. Fifteen practicum hours a week. Credit: Three hours. (School-Based Certificate)

OT 5122. Occupation, Wellness, and Adaptation. Exploration of development of occupational self and of occupational performance and adaptation in a variety of contexts. Model for examining adaptation through occupation in time and space. Two lecture hours a week. Credit: Two hours.

OT 5132. Persons, Tools, and Occupations. Exploration of purpose and meaning of activities with emphasis on play, games, and crafts. Experience with the process of activity analysis including documentation of observations. Three lecture and one laboratory hours a week. Credit: Two hours.

OT 5141. Scholarly Inquiry Seminar. Significance of research, scholarly activity, and the development of a science-based body of knowledge to ground the practice of occupational therapy, using the quality of research evidence for locating, interpreting and critiquing research information. One lecture hour a week. Credit: One hour.

OT 5143. Best Practice in School-Based Occupational Therapy. In depth study in assessment, intervention and service delivery that form best practice. Content includes review of assessment tools how to apply evidence-based practice to school related questions, exercises in consultation techniques and an exploration of service delivery options within occupational therapy. Three lecture hours a week. Credit: Three hours. (School-Based Certificate)

OT 5153. Using Legislation to Empower your Practice. History, significant legislation and related practices for occupational therapy as a related service in the public schools. Three lecture hours a week. Credit: Three hours. (School-Based Certificate)

OT 5161. Adaptation Within the Community. Placement in community settings under supervision of qualified professionals or licensed occupational therapist. Analyze functions of individuals engaged in a variety of occupations using selected evaluation tools and methods introduced in concurrent courses. Two laboratory and one seminar hours a week. Credit: One hour.

OT 5163. Occupational Therapy: Knowledge Bases and Practices. Historical overview of philosophical and theoretical bases for practice. Survey of current practice, including scope, standards, and ethics. Introduction to Occupational Therapy Practice Framework and Clinical reasoning. Three lecture hours a week. Credit: Three hours.

OT 5202. Professional Paper in OT II. Implementation of a faculty sponsored research endeavor that is relevant to the practice of occupational therapy utilizing a documented and referenced method of systematic inquiry. Students participate 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 5203. Research in Occupational Therapy. Introduction to the nature and methods of research, with special emphasis upon the practical application of research findings to a problem in each student's area of special interest. Three lecture hours a week. Credit: Three hours.

OT 5302. Professional Paper in Occupational Therapy III. Documentation of and participation in the dissemination of a faculty sponsored research endeavor relevant to the practice of occupational therapy utilizing a referenced method of systematic inquiry; basics of grant funding. Credit: Two hours.

OT 5303. Comparative Occupational Therapy Theory. A comparative study of generic theories within an historical context plus a review of selected problem-specific theories as models for practice in occupational therapy intervention, program development and evaluation, and research. Theory development, components of theory, and theoretical foundations of clinical practice. Three seminar hours per week. Credit: Three hours.

OT 5312. Occupational Therapy Practice Models. Selected knowledge bases, frames of reference, and practice models related to human occupations, occupational performance, and occupational adaptation in the human system and related contexts of age, life course, disability, and environment. Prerequisite: OT 5113. Two lecture hours a week. Credit: Two hours.

OT 5322. Occupational Adaptation: Infancy and Childhood Application. Selection, analysis, and intervention using occupations and therapeutic strategies appropriate to infants and children. Two lecture and one laboratory hours a week. Credit: Two hours.

OT 5324. Occupational Adaptation: Infancy and Childhood. Study of medical, educational, and psychosocial problems of congenital or developmental origin that interfere in development of occupational performance adaptation. Methods and contexts for occupational therapy assessment and intervention programs. Four lecture hours a week. Credit: Four hours.

OT 5332. Ways of Doing: Self-Care, Work, Play/Leisure. Exploration of occupational performance areas, analyzing and examining the ways engaging in occupation promotes development and health. Evaluation of occupational performance areas, including its types of environments and processes. Prerequisite: OT 5132. One lecture and three laboratory hours a week. Credit: Two hours.

OT 5342. Qualitative Research Methods in Occupational Therapy. Methods of qualitative research, understanding of basic qualitative coding strategies, evaluating the applicability of research studies based on qualitative methods, and the use of such research to make practice decisions. Two lecture hours a week. Credit: Two hours.

OT 5352. Assessment Process. Practice in framing problems in occupational performance and component dysfunction. Two lecture hours and one laboratory hour a week. Credit: Two hours.

OT 5361. Occupational Adaptation Contexts of Childhood. Placement with qualified professionals in community and daily living settings for children. Analysis of children's occupational adaptation in various contexts. Two laboratory and one seminar hours a week. Credit: One hour.

OT 5413. Pediatric Neuroscience in Occupational Therapy. Review of embryology and exploration of the conditions under which both typical and atypical development occur. Emphasis is placed 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. (Advanced Pediatrics Certificate)

OT 5423. Grantsmanship in OT. An introduction to the process in obtaining grant money to fund expenses accrued in activities such as a research study, a training program, a demonstration/model program, or an innovative treatment method. The language of grant writing, typical rules and standard procedures, and sources

for funding is included. Each student will complete a proposal based on individual interest. Three seminar hours a week. Credit: Three hours.

OT 5512. Knowledge Basis Movement in Context. Focusing on aspects of physical health, students will demonstrate knowledge of mechanical principles relative to human function, demonstrate occupational therapy skills in assessment of the musculoskeletal system, examine the implications of selected clinical conditions for biomechanical occupational therapy intervention, and acquire basic skills in treatment planning and application for problems of strength, range of motion, endurance and tissue integrity as they affect daily living skills. Two lecture hours. Credit: Two hours.

OT 5522. Occupational Adaptation: Adolescence to Middle Adulthood Application. Selection, analysis, and intervention using occupations and therapeutic strategies appropriate to adolescents and middle adults. Two lecture and one laboratory hours a week. Credit: Two hours

OT 5524. Occupational Adaptation: Adolescence to Middle Adulthood. Occupational therapy assessment and intervention for persons with acquired impairments, disabilities, and handicaps occurring in adolescence or adulthood causing interference with occupational performance and adaptation. Four lecture hours a week. Credit: Four hours.

OT 5532. Occupational Contexts. Exploration of the ways social, cultural, and physical environments can be evaluated and understood in relation to occupational adaptation. Examination of the ways age, life course, temporal factors, and disability influence the ability to adapt. One lecture and three laboratory hours a week. Credit: Two hours.

OT 5542. Quantitative Research Methods in Occupational Therapy. Descriptive, correlation, and inferential statistics; evaluating the validity of research studies based on quantitative methods; the use of such research to make evidence-based practice decisions. Two lecture hours a week. Credit: Two hours.

OT 5551. Advanced Occupational Therapy Process. Practice in applying principles of occupational therapy and models of practice to evaluation and intervention strategies for persons with acquired problems in occupational performance, component function, or occupational context. Prerequisite: OT 5352. Two laboratory hours a week. Credit: One hour.

OT 5561. Occupational Adaptation Contexts of Adolescents to Middle Adulthood. Placement in occupational therapy practice settings under the supervision of OTR. Application of selected evaluation and intervention procedures. Opportunity to integrate knowledge about particular diagnoses and the adaptive problems imposed upon the individual in daily occupations. Two laboratory and one seminar hours a week. Credit: One hour.

OT 5603. Occupational Therapy for Students with Behavior Disorders - Part I Theoretical Foundation. Introduction to the practice of occupational therapy as a related service for students with behavior disorders. Principles and methods of intervention based on the Occupational Adaptation frame of reference. Credit: Three hours. (Behavior Disorder Specialty)

OT 5663. Occupational Therapy for Students with Behavior Disorders - Part II Assessment & Intervention. Using the Occupational Therapy Adaptation framework to identify sources of occupational dysfunction in the student's role performance. The student's ability to generate effective and satisfying adaptive responses is emphasized. Methods and means to improve the BD student's adaptiveness is explored through discussion and experiential learning. Prerequisite: OT 5603. Credit: Three hours. (Behavior Disorder Specialty)

OT 5673. Occupational Therapy for Students with Behavior Disorders - Part III Interfacing with Educational Framework. Occupational therapy within the educational context is stressed. Federal laws, guidelines, and regional educational systems are studied for relevance to occupational therapy for BD students. Each student designs a comprehensive proposal for occupational therapy interventions. Knowledge of intervention methods is expanded. Prerequisites: OT 5603, OT 5663. Credit: Three hours. (Behavior Disorder Specialty)

OT 5683. Occupational Therapy for Students with Behavior Disorders - Part IV Practicum. Student finalizes and implements model program, which was, developed through previous three courses series in behavior disorders. Site for implementation through conference call, review of documentation, and on-site visits as possible. Prerequisites: OT 5603, OT 5663, OT 5673. Credit: Three hours. (Behavior Disorder Specialty)

OT 5722. Occupational Adaptation: Middle to Late Adulthood Application. Selection, analysis, and intervention using occupations and therapeutic strategies appropriate to older adults. Two lecture and one laboratory hours a week. Credit: Two hours.

OT 5723. Motor Behavior in Pediatrics. Emphasis on current theories of Motor Learning and Motor Control as they apply to the evaluation and therapeutic management of children with disabilities. Three lecture hours a week. Credit: Three hours. (Advanced Pediatrics Certificate)

OT 5724. Occupational Adaptation: Middle to Late Adulthood. Examination of disability, illness, or impairment interfering with adaptation and participation in occupations and roles. Assessment and intervention for rehabilitation and environmental adaptation programs available to individuals with chronic problems. Four lecture hours a week. Credit: Four hours.

OT 5732. Use of Specific Tools in Practice. Exploration, analysis and application of assistive technologies in everyday life. One lecture and three laboratory hours per week. Credit: Two hours.

OT 5733. Pediatric Outcome Measures in Occupational 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.

OT 5753. Designing, Evaluating, and Managing Systems. Occupational therapy program design, principles of management and exploration of factors influencing health care policy. Application of principles of management to a variety of health care settings. Three lecture hours a week. Credit: Three hours.

OT 5761. Occupational Adaption Contexts of Middle and Late Adulthood. Placement in community settings and in long-term care and home health systems under the supervision of a qualified professional or registered occupational therapist. Observations in settings where well-elderly are engaged in social and productive activities and occupational therapy. Two laboratory and one seminar hours a week. Credit: One hour.

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. Prerequisite: OT 5561. 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 5813. Specialty Field Experience. Three 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. Prerequisite: OT 5561. May be repeated for credit. Practicum experience: forty hours a week. Credit: Three hours.

OT 5816. Specialty Field Experience. Six 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. Prerequisite: OT 5561. May be repeated for credit. Practicum experience: forty hours a week. Credit: Six 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 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 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 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 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 5973. Professional Paper. MOT professional paper. Credit: Three 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 5983. Thesis. Credit: Three 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 5993. Thesis. Prerequisite: OT 5983. Credit: Three hours.

OT 6223. Theory and Knowledge Development in Occupational Therapy. Current theories in occupational therapy and their relationship to practice and research; processes of knowledge development in practice professions; development of theory-based clinical research issues and strategies. Three lecture hours a week. Credit: Three hours.

OT 6233. Origin and Evolution of Concepts of Occupational Adaptation. Origin, evolution and significance of concepts of occupational adaptation as a unique perspective in the occupational therapy body of knowledge and the practice arena. Environment as the critical element in adaptation is a central focus. Three lecture hours a week. Credit: Three hours.

OT 6333. Occupational Environments. Environments as physical, social, and cultural systems; settings for occupational performance and their effects on human functioning; research methods for studying environments; environmental intervention in OT. Three lecture hours a week. Credit: Three hours.

OT 6343. Theory of Occupational Adaptation. Examination of theoretical and philosophical issues relating to an occupational adaptation process as a model for normal human growth and development. Interaction of person systems with occupational environments and their underlying physical, social, and cultural systems are explored as a possible mechanism. Discussion of how related constructs can be used to develop theory of occupational adaptation. Three lecture hours a week. Credit: Three hours.

OT 6423. Innovative Teaching Methods in Occupational Therapy. Development of a proposal for implementation or evaluation of innovative teaching methods or technology in an occupational therapy course. May be repeated for credit. 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 6443. Practicum in Supervision of Individual Study. The student will co-chair and guide the professional project of a professional master's degree student. Faculty supervision will include discussion of methods of supervising individual study, mentorship in the use of the theory of occupational adaptation, and sources of content expertise for a professional project. Credit: Three hours.

OT 6453. Practicum in Occupational Therapy Curriculum Evaluation. Academic and professional considerations in curriculum design; evaluation processes and accreditation methods used by the American Occupational Therapy Association. May be repeated for credit. Credit: Three hours.

OT 6553. Advanced Research Design in Occupational Therapy. Examination of the generic relationships between theory and research; strengths and weaknesses of alternative research designs for developing and testing theory in occupational therapy; program evaluation research. Prerequisites: OT 6223 and OT 6343. 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. One lecture and four laboratory hours a week. Credit: Three hours.

OT 6623. Instrumentation for Measuring Occupational Performances. Theories and principles of measurement with emphasis on the process involved in development of unique tests for measurement of occupational therapy constructs and variables in clinical, educational, and research settings. Prerequisite: Quantitative methods research tools. One lecture and three laboratory hours a week. Credit: Three hours.

OT 6633. Cultural Components of Occupational Performance. Cultural definitions of states of health and illness with an examination of socioculturally established occupational performances throughout the lifespan. An investigation of culturally prescribed strategies for dealing with deficits in occupational adaptation as a basis for programming. Credit: Three hours.

OT 6643. Qualitative Methods in Occupational Therapy. Methods of data collection and interpretation including participant observation, qualitative interviewing, data triangulation, research use of video, with emphasis on application to research questions in occupational therapy. Prerequisite: OT 6553 Advanced Research Design in Occupational Therapy. May not be repeated for credit. 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. Analysis of issues and trends in occupational therapy and

subsequent approaches taken by the profession to adapt to resulting changes. Role of the occupational therapist as change agent and consultant. Three lecture hours a 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 taken concurrently with OT 6993. May be repeated for credit. Credit: Three hours.

OT 6993. Dissertation. Prerequisite: successful completion of qualifying exam. May be taken concurrently with OT 6983. May be repeated for credit. Credit: Three hours.

School of Physical Therapy

Director: Sharon Olson (Houston), Professor

Associate Director: Venita Lovelace-Chandler (Dallas), Professor

Location: CFO 1210

Phone: 940-898-2460

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Faculty: Professors W. Bartlett, V. Lovelace-Chandler, S. Olson, L. Petterborg, M. Sabbahi, M. Thompson; Associate Professors C. Costello, P. Gleeson, E. Jackson, E. MacNeill, A. Medley, T. Roddey, S. Wang; Assistant Professors M. Hamilton, S. Lin, K. Luedtke-Hoffmann, K. Mitchell, B. Norris; Associate Clinical Professor C. Kelley; Assistant Clinical Professors L. Csiza, R. Patel.

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-Post Professional.

Ph.D. in Physical Therapy.

Graduate Certificates Offered

Advanced Geriatric Physical Therapy

Advanced Pediatric Therapy

Advanced Studies in Upper Extremity Rehabilitation

Orthopedic Manual Therapy

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 post-professional 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 and at the Dallas Presbyterian Center. This program prepares the student to enter the profession of physical therapy.

The school also offers coursework toward a post-professional Doctor of Physical Therapy degree to physical therapists. The program is offered at both the Houston and Dallas-Presbyterian 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 the 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 Presbyterian Centers.

Advanced Practice – Graduate Certificates

Graduate Certificates are available in four areas of practice: Advanced Geriatric Physical Therapy, Advanced Pediatric Therapy, Advanced Studies in Upper Extremity Rehabilitation, 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/pt 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 on 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 two semesters of anatomy and physiology with labs; or one semester of anatomy and physiology plus one semester of exercise physiology with labs.
8. A course in medical terminology (PT 2002 or equivalent).
9. Current certificates in cardiopulmonary resuscitation and first aid.
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

Freshman/transfer students at the Denton campus of TWU who major in areas such as kinesiology, psychology, human biology, nutrition, and child development have the opportunity to take two introductory physical therapy courses which can help students determine their interest in the profession. In addition, undergraduate students who major in human biology, kinesiology, 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.
- 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.

Post-Professional 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.
- 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.
- 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.
- Foreign students must also submit a minimum score of 550 on the TOEFL (213 computer-based version), a minimum score of 55 on the TSE, a minimum score of 5 on the Test of Written English (TWE) or on the TOEFL essay, and meet graduate school requirements for foreign applicants.
- All coursework from a foreign university must be evaluated by TWU's International Education offices 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 and no grade below a C (75%) will be credited toward the degree. 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 Post-Professional Doctor of Physical Therapy Degree

(For students who are already physical therapists)

Total Hours Required: at least 24

Core: 18 hours

Electives: 6 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: 33 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

Other Coursework: A minimum of 23 to 27 credit hours based on individual student needs, consisting of concentration area courses, individual studies, field research, supervised teaching, seminars, and/or practica.

Residence 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 5014. 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 5015. 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 5024. 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 5033. 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 5072. 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 5082. 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 5122. 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 5132. 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 5221. Exercise Testing and Prescription in Physical Therapy. Physiological responses to activity or exercise and physiological adaptations in response to training. Emphasizes how energy is stored and utilized, how to conduct exercise testing, and development of exercise prescriptions for healthy and clients with disease. Two laboratory hours a week. Credit: One hour.

PT 5233. 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 5303. 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 5313. 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 5402. 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 5313. One lecture hour and two laboratory hours a week. Credit: Two hours.

PT 5412. 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 5811. 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 5821. 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 5871. 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 5931. 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 5933. 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 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 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 5871. One contact hour a week. Credit: One hour.

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 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 5412. 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 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 5402. Two laboratory hours a week. Credit: One hour.

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 6333. 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 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 5821. 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 5933. 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 5023. 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 5083. 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 5093. 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 5103. 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 5173. Neurodevelopmental Approach to the Pediatric Patient. Development of clinical skills in the treatment of children with neuromuscular disabilities;

the neurophysiological basis for the neurodevelopmental approach. Prerequisites: degree in physical or occupational therapy, permission of the instructor. Credit: Three hours.

PT 5203. 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 5213. 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 5233. 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 5263. 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 5273. 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 5293. 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 5513. 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 5523. 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 5533. 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 5543. 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 5553. 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 5563. 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 5573: 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 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 5823. 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 5813. 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 5833. 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 5871. Critical Inquiry in Physical Therapy I.

First of three courses designed for professional masters degree students to apply the scientific method to critical inquiry in physical therapy. Faculty mentors will guide students in planning a research project. Prerequisite: PT 5233. Two hours of project activities a week. Credit: One hour.

PT 5881. Critical Inquiry in Physical Therapy II.

Second of three courses designed for professional masters degree students to apply the scientific method to critical inquiry in physical therapy. Students will collaborate with faculty advisors to implement projects proposed during the previous course. Prerequisite: PT 5871. Two hours of project activities a week. Credit: One hour.

PT 5891. Critical Inquiry in Physical Therapy III.

Last of three courses designed for professional masters degree students to apply the scientific method to critical inquiry in physical therapy. Students will evaluate, summarize, and present project results. Prerequisite: PT 5881. Two hours of project activities per week. Credit: One hour.

PT 5893. Advanced Critical Inquiry in Physical Therapy.

Designed for professional masters degree students to apply the scientific method to critical inquiry and to contribute to the physical therapy body of knowledge. Faculty mentor will guide students in the planning, execution, and evaluation of collaborative research projects that will culminate in production of a scholarly manuscript. Prerequisites: PT 5871, PT 5881, PT 5891. Six hours of project activities a week. Credit: Three hours.

PT 5901. 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 5903. 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 5911. Independent Study. Advanced work in special fields of physical therapy. Credit: One hour. May be repeated for credit.

PT 5913. Independent Study. Advanced work in special fields of physical therapy. Credit: Three hours. May be repeated for credit.

PT 5923. 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 5971. Professional Paper. An in-depth review of a specific problem area jointly selected by student and instructor; intensive laboratory or library research into the topic with a professional paper presenting the results of this research. Prerequisite: Permission of instructor. Credit: One hour. May be repeated for credit.

PT 5973. Professional Paper. An in-depth review of a specific problem area jointly selected by student and instructor; intensive laboratory or library research into the topic with a professional paper presenting the results of this research. Prerequisite: Permission of instructor. Credit: Three hours. May be repeated for credit.

PT 5983. Thesis. Prerequisites: PT 5233, permission of instructor, and permission of Graduate Committee of the School of Physical Therapy. Credit: Three hours. May be repeated for credit. Only three credits apply toward degree.

PT 5993. Thesis. Prerequisites: PT 5983, permission of instructor, and permission of Graduate Committee of the School of Physical Therapy. Credit: Three hours. May be repeated for credit. Only three credits apply toward degree.

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 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 6123. Physical Therapy Patient/Client Management I. Knowledge and skills to enhance clinical decision-making, including screening, examination, evaluation, diagnosis, prognosis, plan of care, intervention and outcomes in clients with musculoskeletal and cardiopulmonary disorders. 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 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 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 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 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. Advanced Research Problems in Physical Therapy. Contemporary research problems in physical therapy for selected groups of students. May include seminars of invited speakers, student and faculty presentations of research problems, review of literature of selected topics, pilot research studies, and independent research projects. Prerequisites: degree in physical therapy, permission of instructor. Credit: Three hours.

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 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 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

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Website: www.twu.edu/nursing/

Denton: 940-898-2401

Associate Dean, Denton: Anne Stiles, Professor

Dallas: 214-689-6510

Associate Dean, Dallas: Caryl Mobley, Professor

Houston: 713-794-2100

Associate Dean, Houston: Rebecca Krepper, Professor

Faculty: Denton: Professors G. Davis, P. Holden-Huchton, A. Stiles; Associate Professors D. Sauls, D. Tilley; Assistant Professors E. Anderson, J. Grassley, T. White, V. Zeigler; Associate Clinical Professor P. Jones; Assistant Clinical Professors M. Brogan, A. Thomson; Visiting Assistant Clinical Professor R. Neff; Dallas: Professors S. Chaney, C. Mobley, S. Sheriff, S. VanSell; Associate Professors C. Bailey, S. Carter, M. Cho, P. Mancuso, D. Tapler; Associate Clinical Professors C. Enright, L. Galatas, C. Kindred, B. McAlister, C. Wilson; Assistant Professors C. Arnold, M. Dorin, B. Gray; Assistant Clinical Professors A. Brnick, N. Fried, E. Fuentes, S. Lambert, D. Walls; Clinical Instructor P. Stroud; Houston: Professors C. Adamson, R. Britt, R. Krepper, J. McFarlane, E. Young; Clinical Professors P. Landrum, C. Stephenson; Associate Professors C. Ayers, B. Binder, S. Cesario, J. Foster, B. Haile, M. Hawkins, S. Hutchinson, R. Langford, A. Malecha, D. Montgomery, L. Symes, K. Tart; Associate Clinical Professor R. Solomon; Assistant Professors R. DelloStritto, R. Grubestic, T. Rodriguez, R. Toms, T. Walsh; Assistant Clinical Professors M. Hildebrand, M. Rhemann, A. St. Germaine.

Graduate Degrees Offered

M.S. with a major in nursing, with clinical nurse specialist options in adult health, child health, and women's health; nurse practitioner options in acute care, family health, adult health, women's health, and pediatrics; and an option in nursing education

M.S. with a major in nursing/health systems management and a minor in health care administration

Ph.D. with a major in nursing science

D.N.P., Doctor of Nursing Practice

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-Parkland. The Ph.D. is offered at the Denton Campus and the Houston Center, and the D.N.P. is offered at the Dallas Center. 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 Program is accredited by the Commission on Collegiate Nursing Education.

The master's degree program in nursing prepares professional nurses for leadership roles in the delivery of health care 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:

Nurse Practitioner

Nursing/Health Systems Management

Nurse Educator

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 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 three areas: nurse practitioner, nursing/health systems management, or nurse educator. 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 nine hours. 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.
3. current required immunizations.
4. CPR for health care providers.

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 clinical agency requirements such as drug testing and criminal background screening.

All nursing education majors are required to have a current unencumbered licensure 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

Fall

Spring

Submit application no later than

May 1

September 15

Admission to the Ph.D. program may be awarded on an unconditional or provisional basis. The criteria for unconditional admission are:

1. A minimum grade point average (GPA) of 3.5 on 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; or
3. A score in the 50th percentile on the Miller Analogies Test (MAT).

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 – DNP (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 DNP 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 APN (NP or CNM) by a nationally recognized accrediting body.
6. Eligibility to be recognized as an APN in Texas.
7. Curriculum vita or resume.
8. Two letters of recommendation.
9. Essay discussing professional goals.
10. GRE or MAT scores.
11. All applicants being considered for admission will be interviewed.

Application deadlines and criteria for unconditional and provisional admissions are the same as those for the Ph.D.

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 Graduate Academic Affairs Committee 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 36 to 49 semester hours.

Clinical Nurse Specialist and Nurse Practitioner

Core:

Theoretical Foundations of Nursing Practice	3 hrs.
Research in Nursing	3 hrs.
Advanced Assessment / Differential Diagnosis	4 hrs.
Advanced Pathophysiology	3 hrs.
Pharmacotherapeutics for Advanced Nursing Practice	3 hrs.
Health Promotion and Primary Prevention	3 hrs.
Advanced Practice Nursing Role	2 hrs.
Advanced Practice Nursing Seminar	1 hr.
Professional Project/Thesis	<u>3 hrs/6 hrs</u>
	25/28 hrs

Clinical courses in specialty area

Clinical nurse specialist	19 hrs.
Nurse practitioner	21 hrs.

Nursing/Health Systems Management

Students complete a major in nursing/health systems management and a minor in health care administration.

Core

Theoretical Foundations of Nursing Practice	3 hrs.
Research in Nursing	3 hrs.
Health Promotion and Primary Prevention	3 hrs.
Professional Project/Thesis	<u>3 hrs/6 hrs</u>
	12/15 hrs

Nursing/Health Systems Management

Nursing Administration Practicum	10 hrs.
Health Systems Management: Challenges and Opportunities	<u>2 hrs.</u>
	12 hrs.

Health Care Administration

Performance Measurement and Quality	3 hrs.
Organizational Theory and Health Care Management Practice	3 hrs.
Microeconomics	1 hr.
Economics of Health and Medical Care	3 hrs.
Managerial Accounting	3 hrs.
Practicum Supporting Courses	<u>6 hrs.</u>
	19 hrs.

*Nursing Education**Core:*

Theoretical Foundations of Nursing Practice	3 hrs.
Research in Nursing	3 hrs.
Professional Project/Thesis	<u>3 hrs./6hrs.</u>
	9-12 hrs.

Education related electives

With guidance of faculty, student will select two electives.

Electives	6 hrs.
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Educator role courses

Theoretical Bases for Nursing Education	3 hrs.
Curriculum Design and Management	3 hrs.
Measurement and Assessment in Nursing	3 hrs.
Teaching Practicum in Nursing I	3 hrs.
Teaching Practicum in Nursing II	3 hrs.
Measurement and Assessment	3 hrs.
Educational Communication and Technologies of Instruction	3 hrs.
Education Models for Curriculum Management	<u>3 hrs.</u>

Educator role total hours 24 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) If a student who is accepted for the re-education process 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 Nurse Examiners as an advanced practice 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 thesis or professional paper.

RN-MS 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 MS or RN-BS coordinator at each campus.

Progression requirements for students in RN-MS 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-MS program. If a course must be repeated, the student cannot continue to take master's level courses until that course has been successfully repeated. A student may, however, continue to take undergraduate courses or choose to continue as an RN-BS student; students could, upon 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 nurse educator.

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	21 hrs.

Hours Required for Nursing/Health Systems Management

Organizational Theory and Health Care Management Practice	3 hrs.
Microeconomics	1 hrs.
Economics of Health and Medical Care	3 hrs.
Managerial Accounting	3 hrs.
Clinical Practicum	3-4 hrs.
Health Systems Management	2 hrs.
Nursing Independent Study	3 hrs.

Hours Required for Nurse Educator

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 nurse and is currently credentialed by the Texas Board of Nursing as an advanced practice nurse, the advanced pathophysiology, pharmacotherapeutics, and advanced assessment courses may have been completed no more than 15 years earlier.

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 requirement, students may choose one of the following options:

- a. Information Retrieval: Complete LS 5553 and LS 5533.
- b. Computer Packages: Complete CSCI 5793 and CSCI 5893.
- c. Qualitative Research: Complete SOC 5773/6203 Data Gathering and SOC 5773/6203 Data Analysis
- d. Writing Research Tool: Complete ENG 5903 and an additional writing course such as ENG 5333, ENG 5373, ENG 6323, or ENG 6343.

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 nursing 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) twice in the same graduate level nursing 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 (DNP)

Total Hours Required: At least 90 credit hours beyond the bachelor's degree with 46 hours for the DNP degree requirement.

Clinical Course Requirements: Prior to enrollment in any clinical nursing course each DNP 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.
- Recognition as an APN in Texas.

- Current immunizations as required by Texas Law.
- Prior to enrollment in the clinical residency courses of the DNP the student must have completed at least 1 year of full-time experience as an APN (NP or CNM).

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 from 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 Promotion and Primary Prevention. Provides a foundation for advanced nursing practice utilizing principles of health promotion and disease prevention in individuals and communities. Addresses national and community-level health problems. Focuses on the use of epidemiological, social, and environmental data to evaluate community health deficits. Examines the influence of regulatory, legislative, and public policy upon various client populations and corresponding inherent ethical issues. 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. Evidenced 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 a variety of theories that provide a basis for the practice of nursing. Explores the application and utilization of appropriate theories to nursing practice and research. Focuses on the 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 5023. Research in Nursing. Focus of research content is on application of research in the clinical setting, including problem identification, determination of the evidence supporting available data for nursing practice, and development of strategies for incorporating research in practice. Research-related skills include

critique and use of appropriate research design and statistical methods, use of computer hardware and software and information retrieval, use and management. Prerequisites: basic statistics course. Pre/co-requisite: NURS 5013 or permission of instructor. Three lecture hours a week. Credit: Three 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. Evidenced 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. Co-requisite: 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. PThree 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 component (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/co-

requisites: 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/co-requisites: 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/co-requisites: 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/co-requisites: 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/co-requisites: 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/co-requisites: 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/co-requisites: 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. Pre or co-requisites: NURS 5013; NURS 5023; HCA 5223. 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. Pre- or co-requisites: NURS 5013, NURS 5023, NURS 5003, HCA 5223, HCA 5493. 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. Pre- or co-requisites: NURS 5013, NURS 5023, HCA 5223, HCA 5533, HCA 5623. One lecture hour and 6 hours of clinical praticum per week. Credit: Three hours.

NURS 5542. Health Systems Management: Challenges and Opportunities. Focus is on the impact of important clinical issues in current nursing practice

as they relate to nursing administration. Emphasis is on future trends in process and structure of health care delivery and financial reimbursement. Prerequisites: Completion of two of the three nursing administration practicums (NURS 5544, NURS 5553, NURS 5543). Two lecture hours per week. Credit: Two 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. Intergrades knowledge of growth and development. Promotes critical thinking and diagnostic reasoning skills in clinical decision making. Prerequisites: NURS 5013, BIOL 5333, NURS 5644. Pre/co-requisites: 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/co-requisites: 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/co-requisite: 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/Co-requisites: 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 5684. Clinical Nurse Specialist Preceptorship. Clinical practice course to implement the clinical nurse specialist role. Emphasis is on synthesizing nursing and medical knowledge to maintain and promote health in well and hospitalized clients, including clinical management, staff development, case management, discharge planning, education, and consultation. Pre/co-requisites: NURS 5315 or NURS 5415 or NURS 5615 (Third clinical courses); NURS 5001. Twelve clinical practicum hours a week. Credit: Four hours.

NURS 5693. Nurse Preceptorship II. Provides clinical experience in settings similar to those in which students should practice following program completion. Emphasizes synthesis of knowledge and skills in health promotion and health maintenance across the lifespan. Emphasis is on the clinical management of clients and families with common acute and chronic illnesses. Pre/co-requisites NURS 5315 or NURS 5415 or NURS 5515 or NURS 5615 (Third Clinical Courses), NURS 5001, NURS 5683. Nine 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 5983. Thesis. Prerequisite: NURS 5023. Credit: Three hours.

NURS 5993. Thesis. Prerequisite: NURS 5983. 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; Co-requisite: 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 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 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 6143. Irregular Time Series Statistical Analysis. Survey of the theory and methods relative to nonlinear dynamics. Provides opportunity to examine

time series data using a variety of methods. Focuses on randomness, probability theory, time series, nonlinear dynamics, chaos, fractals, and scaling. Prerequisite: Completion of statistics research tool or permission of instructor. 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 that are placing 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 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 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. 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. Prerequisite: LS 5363. 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, 2008.

* ADAMS, SUSAN A., Associate Professor of Counseling & Development. B.A., Louisiana Tech University; M.Ed., Northeast Louisiana University; Ph.D., Texas A&M University, Commerce.

* ADAMSON, CAROLYN, Professor of Nursing. B.S., University of Texas; M.S., Ph.D., Texas Woman's University.

AHMED, SHAZIA, Lab Coordinator, 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., Associate Professor of Reading. B.A., Saint Mary's College; M.Ed., University of North Carolina; Ph.D., Ohio University.

* ALEXANDER, JIM R., Cornaro Professor Emeritus of History and Government. B.A., M.A., East Texas State University; Ph.D., American 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.

** ANDERSON, ERIC, Assistant Professor of Nursing. B.S., University of the State of New York at Regents; M.S.N., The University of Phoenix; M.Ed., University of Texas at Brownsville; Ed.D., University of Houston.

** ANDERSON, GINA, Assistant Professor of Teacher Education. B.S., University of Oklahoma; M.S., Ed.D., Oklahoma State University.

* ANDERSON, MARY E., Assistant Professor of Chemistry. B.A., Hollins College; Ph.D., Cornell University.

* ANDERSON, NANCY L., Associate Professor of Reading. B.A., Texas Lutheran University; M.Ed., University of Houston; Ph.D., The Ohio 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., Associate Professor of Family Sciences. B.S., M.Ed., East Texas State University; Ph.D., Texas Woman's University.
- ARNOLD, CAROL M., Assistant Professor of Nursing. B.S., M.S., Ph.D., Texas Woman's University.
- ** AVEN, JOHNNIE, Associate Clinical Professor of Occupational Therapy. B.S., West Texas State University; M.O.T., Ph.D., Texas Woman's 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, PAM, Associate Professor of Business and Economics. B.A., Hendrix College; M.S., University of Houston at Clear Lake; Ph.D., University of North Texas.
- ** BANKS, CATHERINE CLEAVELAND, Senior Lecturer in Mathematics. B.S., M.S., Stephen F. Austin State University.
- * BARBOUR, JOANN D., Associate Professor of Educational 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.
- * BEAN, JUDITH MATTSO, Associate Professor of English; Associate Vice-President for Undergraduate Studies. B.A., M.A., Sam Houston State University; Ph.D., Texas A&M University.

- ** 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.
- * 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.
- ** BENGEL, SHARON J., Professor of Drama; Program Director of Drama. B.A. University of Texas; M.F.A., Texas Christian University.
- * BENTZ, BRET G., Assistant Professor of Psychology. B.S., Carnegie Mellon University; M.A., Ph.D., Louisiana State University.
- * BERGEL, MICHAEL, Associate Professor of Biology. B.Sc., M.Sc., Ph.D., Hebrew University of Jerusalem.
- * 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.
- BLOSSER, JACOB M., Assistant Professor of History. B.A. Milligan College; M.A., James Madison University; Ph.D., University of South Carolina.
- ** BOOKER, KIMBERLY, Assistant Professor of Psychology. B.A., Duke University; Ph.D., University of Texas at Austin.
- * 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.

* BRADLEY, PETER, Assistant Professor of Family Therapy. B.A., M.A., The University of Louisiana; Ph.D., Virginia Polytechnic Institute & State University.

** BRAY, KAYE, Assistant Professor of Library and Information Studies. B.A., University of Texas at Arlington; M.I.S., M.S., Ph.D., University of North Texas.

* BRIDGES, PHYLLIS J., Professor of English. B.A., M.A., West Texas State University; Ph.D., Texas Tech University.

BRIGGS, CONNIE, Professor of Reading. B.A., M.Ed., Southeastern Oklahoma State University; Ph.D., University of North Texas.

* BRITT, BILLY MARK, Associate Professor of Chemistry. B.S., Millsaps College; Ph.D., University of Oregon.

* BRITT, ROBIN BURKE, Professor of Nursing. B.S., University of Texas, Galveston; M.S., Texas Woman's University; Ed.D., University of Houston.

BRNICKY, ALICE, Assistant Clinical Professor of Nursing. B.S., Purdue University; M.S., Texas Woman's University

* BROCK, LINDA. Assistant 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.

BROOKS-HARRIS, JEFF, Associate Professor of Psychology. B.A., DePauw University; M.A., Southern Illinois University at Carbondale; Ph.D., The Ohio State 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.

BUCKINGHAM, DEBORAH K., Assistant Clinical Professor of Occupational Therapy. B.S., Texas Woman's University; M.S., University of North Texas.

** BUCKLEY, RHONDA, Assistant Professor of Family Studies. B.A., M.A., Ph.D., Auburn University.

BULLS, DERRELL W., Professor of Business and Economics. B.B.A., M.B.E., University of North Texas; Ph.D., Texas Tech University.

- * BURNS, HUGHL., 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., Assistant Professor of Drama. B.A., Ashland University; M.A., Southwest Missouri State University; Ph.D., Louisiana State University.

- * CALABRESE, JOHN, Professor of Art. B.A., Catholic University; M.F.A., Pratt Institute; Ph.D., Ohio University.

- * CALDWELL, LINDA, Associate Professor of Dance. B.A., University of Iowa; M.F.A., University of Wisconsin; Ph.D., Texas Woman's University; C.M.A., LabanBartenieff Institute of Movement Studies.

- * CAMPBELL, REGINA MICHAEL, Associate Professor of Occupational Therapy. B.S., Eastern Michigan University; M.S., University of Michigan.

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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/academicaffairs/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
BHL	Blagg-Huey Library
CFO	Classroom and Faculty Office Building
DED	Dallas Parkland Center
DGL	Dance, Gymnastics, and Human Performance Laboratories
DPH	Dallas Presbyterian Center
GRB	Graduate Research Building
HDB	Human Development Building
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
SCI	Science Building
SH	Stoddard Hall
ULB	Undergraduate Laboratory Building

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