

Prairie View A&M University

Digital Commons @PVAMU

Graduate Catalog

Catalog Collection

2004

Graduate Catalog - The School Year 2003-2004

Prairie View A&M University

Follow this and additional works at: <https://digitalcommons.pvamu.edu/pv-graduate-catalog>

Recommended Citation

Prairie View A&M University. (2004). Graduate Catalog - The School Year 2003-2004., *Vol. LXXXII, NO.1*
Retrieved from <https://digitalcommons.pvamu.edu/pv-graduate-catalog/7>

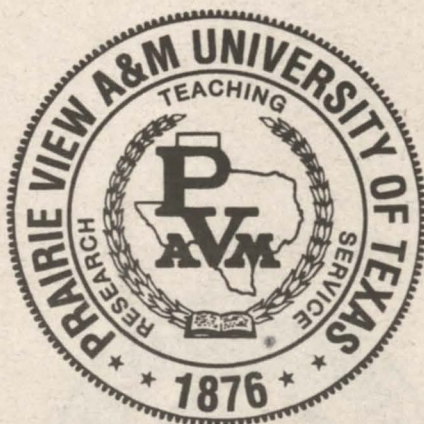
This Book is brought to you for free and open access by the Catalog Collection at Digital Commons @PVAMU. It has been accepted for inclusion in Graduate Catalog by an authorized administrator of Digital Commons @PVAMU. For more information, please contact hvkoshy@pvamu.edu.

BULLETIN OF
PRAIRIE VIEW A&M UNIVERSITY
PRAIRIE VIEW, TEXAS
Established by the Texas State Legislature in the Year 1876

VOLUME 82

NO.1

THE ONE HUNDRED AND THIRTEENTH
ISSUED WITH
ANNOUNCEMENTS FOR THE ACADEMIC YEARS
2003 - 2004



GRADUATE CATALOG

PRAIRIE VIEW A&M UNIVERSITY IS A MEMBER OF THE TEXAS A&M UNIVERSITY SYSTEM
AND IS ACCREDITED BY THE COMMISSION ON COLLEGES OF THE SOUTHERN
ASSOCIATION OF COLLEGES AND SCHOOLS TO AWARD BACHELOR, MASTER AND
DOCTORAL DEGREES

LD
4571
.P58
L37
2003-2004
Grad

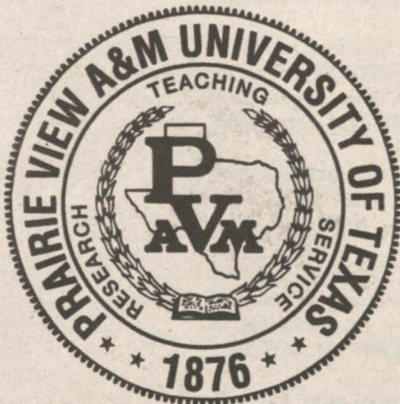
A copy of the catalog can be purchased at PVAMU's bookstore.

WWW.PVAMU.EDU
EFFECTIVE 09/20/03

Provisions of this Catalog

The provisions of this catalog do not constitute a contract, expressed or implied, between any applicant, student, or faculty member and Prairie View A&M University or The Texas A&M University System. Prairie View A&M University and The Texas A&M University System reserve the right to withdraw courses at any time and to change fees, calendars, curricula, graduation procedures, or other requirements affecting students. Changes will become effective whenever the proper authorities so determine and will apply both to prospective students and to those already enrolled.

While every effort is made to assure that information is accurate, Prairie View A&M University does not assume responsibility for any misrepresentation which might arise through error in the preparation of this or any other of its catalogs, or through failure to give notice of changes in its requirements, policies, tuition and fees, course offerings, and other matters affecting students or applicants. To be assured of accuracy of information, students must regularly consult current publications and academic advisors.



Accreditation

Area/Program

Agency

University (Regional Accreditation)

Commission on Colleges of the Southern Association
of Colleges and Schools, Inc.
1866 Southern Lane
Decatur, GA 30033-4097
(404) 679-4501
to award Bachelor, Master and Doctoral degrees

Architecture

National Architectural Accreditation Board
1735 New York Ave. N.W.
Washington, D.C. 20006

Dietetics

Commission on Accreditation of Dietetics Education
The American Dietetics Association
216 West Jackson Blvd.
Chicago, Illinois 60606-6995
(312) 899-4876

Social Work

Division of Standards and Accreditation
Council on Social Work Education
1725 Duke Street-Suite 500
Alexandria, VA 22314-3457

Teacher Education

National Council for Accreditation of Teacher
Education (NCATE)
2010 Massachusetts Avenue NW, Suite 500
Washington, D.C. 20036-1023

State Board for Educator Certification (SBEC)
1001 Trinity Street
Austin, TX 78701

Nursing

National League For Nursing Accrediting
Commission (NLNAC)
61 Broadway
New York, NY 10006

Board of Nurse Examiners for the State of Texas
33 Guadalupe, Suite 3460
Austin, TX 78701-3942

Table of Contents

- Provisions of this Catalog i
- Accreditation ii
- Academic Calendars 1
 - Board of Regents 6
 - Administrative Officers 7
- General University Information 8
 - History 8
 - Administrative Organization 9
 - Mission 10
 - Rules and Procedures on Discrimination, Harassment, and Privacy 10
 - Equal Opportunity Policy Statement 10
 - Policy Against Discrimination 10
 - Title IX of The Education Amendment Act of 1972 10
 - Title V of the Rehabilitation Act of 1973 11
 - Right to Privacy 11
- Student Services Information 12
 - Financial Counselors 19
 - Scholarship Office 20
 - Library and Instructional Services 20
 - Information Technology Services 21
 - Health and Counseling Services 21
 - Disability Services 21
 - Safety and Security Services 22
- Tuition and Fees 25
 - Financial Aid Refund Schedule 26
 - Schedule of Tuition and Fees 27
 - Tuition and Fee Exemptions 31
- Admissions Information and Requirements 32
 - The Graduate School 32
 - Schools and Colleges with Graduate Programs 33
 - Types of Admission 34
 - Graduate Degree Status 34
 - Provisional Graduate Status 34
 - Non-Degree (Transient) Status 34
 - Special Student Status 34
 - International Student Information 34
 - Application Deadlines 35
 - Re-admission 35
 - Graduate Work by Seniors 35
 - Second Master's Degree 35
 - Cancellation of Admission 36
 - Admission from Non-Accredited or Non-Equivalent Institutions 36
- Academic Information and Regulations 37
 - General Academic Information 37
 - Courses and Credits 37
 - Procedure for Requesting "I" or "IP" as a Final Grade 38
 - Academic Advising, Registration, and Degree Plans 39
 - Grading/Class Related Appeals 40
 - Course Changes and Withdrawals 41
 - Voluntary Withdrawal From a Course 41
 - Voluntary Withdrawal from the University 42
 - Withdrawal of Students Ordered to Military Active Duty 42

- Administrative Withdrawal 42
- Academic Progress Standards 42
- Class Attendance Policy 43
- Graduation Requirements 47
 - General Requirements 47
 - Master of Architecture and Master of Community Development 49
 - Master of Arts and Master of Science 49
 - Master of Science in Computer Science and Master of Science in Computer Information Systems 49
 - Master of Education and Master of Business Administration 49
 - Master of Science in Engineering and Master of Science in Electrical Engineering 49
 - Master of Science in Juvenile Justice 50
 - Master of Science in Nursing 50
 - Doctor of Philosophy in Juvenile Justice 50
 - Doctor of Philosophy in Educational Leadership 50
 - Doctor of Philosophy in Electrical Engineering 50
- Academic Programs 51
 - College of Agriculture and Human Sciences 51
 - Department of Agriculture, Nutrition and Human Ecology 53
 - School of Architecture 57
 - College of Arts and Sciences 62
 - Department of Biology 63
 - Department of Chemistry 65
 - Department of Languages and Communications 66
 - Department of Mathematics 68
 - Division of Social Work, Behavioral and Political Science 70
 - Army Reserve Officers Training Corps 72
 - College of Business 74
 - College of Education 81
 - Department of Curriculum and Instruction 92
 - Department of Educational Leadership and Counseling 96
 - Department of Health and Human Performance 104
 - College of Engineering 108
 - Department of Computer Science 113
 - Department of Electrical Engineering 117
- Student Advisement and Supervision 119
 - College of Juvenile Justice and Psychology 125
 - College of Nursing 136
 - Distance Education Programs 139
- University Courses 140
 - College of Agriculture and Human Sciences 140
 - School of Architecture 145
 - College of Arts and Sciences 147
 - College of Business 155
 - College of Education 158
 - College of Engineering 168
 - College of Juvenile Justice and Psychology 180
 - College of Nursing 187
- Officers of Instruction for 2003-2004 190
 - College of Agriculture and Human Sciences 190
 - School of Architecture 190
 - College of Arts & Sciences 191
 - College of Education 193
 - College of Juvenile Justice 197
 - Emeritus Faculty and Staff 199

Academic Calendars

Academic Calendar-Fall 2003

August 19, Tuesday

- Dining Hall Opens for New Students
- University College (Housing) Opens for New Freshmen Students
- University Village Opens for New Transfer Students

August 20, Wednesday

- New Student Check-In
- Meal Plans Begin
- University Village Opens for Returning Students

August 21-22, Thursday - Friday

- Regular Registration for Returning Students

August 23, Saturday

- Registration for Graduate Students

August 25, Monday

- Instruction Begins
- Late Registration and Drop/Add Begins

August 29, Friday

- Late Registration and Drop/Add Ends for Undergraduate Students

August 30, Saturday

- Late Registration and Drop/Add Ends for Graduate Students

September 1, Monday

- Labor Day (University Closed)

September 10, Wednesday

- Census Date (12th Class Day)
- Courses Cancelled For Non-Payment
- Last Day to Withdraw from Course(s) without Record

September 11, Thursday

- Withdrawal from courses with record ("W") Begins

September 22, Monday

- LAST DAY TO APPLY for FALL 2003 GRADUATION

October 16-18, Thursday - Saturday

- Mid-semester Examination Period

Academic Calendar – Fall 2003 (continued)**November 3, Monday**

- Withdraw from Course(s) with record (“W”) Ends.

November 11, Tuesday

- Early Registration Begins for Spring Semester 2004

November 27-29, Thursday - Saturday

- Thanksgiving Holiday (University Closed)

December 1, Monday

- Instruction Resumes
- Course Review Day [Classes must convene and instructors will prepare students for Final Exams that will take place Dec. 5-10]

December 2, Tuesday

- Course Review Day [Classes must convene and instructors will prepare students for Final Exam that will take place Dec. 5-10]
- Last Class Day for Fall Semester [Final Exams will take place Dec. 5-10]

December 3-4, Wednesday-Thursday

- Study Days [Study for Exams that will take place Dec. 5-10]

December 5-10, Friday-Wednesday

- Final Examination Period

December 10, Wednesday

- Final Grades due for Graduating Candidates

December 13, Saturday

- Commencement

December 16, Tuesday

- Final Grades Due for All Students

Academic Calendar-Spring 2004**January 6, Tuesday**

- Dining Hall Opens for New Students
- University College (Housing) Opens for New Freshmen Students
- University Village Opens for New Transfer Students

January 7, Wednesday

- New Student Check-In
- Meal Plans Begin
- University Village Opens for Returning Students

January 8-9, Thursday - Friday

- Regular Registration for Returning Students

January 10, Saturday

- Registration for Graduate Students

January 12, Monday

- Instruction Begins
- Late Registration and Drop/Add Begins

January 16, Friday**Academic Calendar – Spring 2004 (continued)**

- Late Registration and Drop/Add Ends for Undergraduate Students

January 17, Saturday

- Late Registration and Drop/Add Ends for Graduate Students

January 19, Monday

- Dr. Martin Luther King Jr. Day (University Closed)

January 28, Wednesday

- Census Date (12th Class Day)
- Courses Cancelled For Non-Payment
- Last Day to Withdraw from Course(s) without Record

January 29, Thursday

- Withdrawal from courses with record (“W”) Begins

February 9, Monday

- LAST DAY TO APPLY for SPRING 2004 GRADUATION

March 4-6, Thursday - Saturday

- Mid-semester Examination Period

March 9, Tuesday

- Mid-Semester Grades Due

March 8-13, Monday-Saturday

- Spring Break

March 15, Monday

- Instruction Resumes

March 29, Monday

- Withdraw from Course(s) with record (“W”) Ends

March 31, Wednesday

- Founders Day/Honor Convocation

April 8, Thursday

- LAST DAY TO APPLY for Summer 2004 Graduation

April 9-10, Friday - Saturday

- Good Friday/Easter – Student Holiday

April 13, Tuesday

- Early Registration Begins for Summer/Fall 2004

April 26, Monday

- Course Review Day [Classes must convene and instructors will prepare students for Final Exams that will take place April 30-May 5]

April 27, Tuesday

- Course Review Day [Classes must convene and instructors will prepare students for Final Exams that will take place April 30-May 5]
- Last Class Day for Spring Semester [Final Exams will take April 30-May 5]

Academic Calendar – Spring 2004 (continued)**April 28-29, Wednesday-Thursday**

- Study Days [Study for Exams that will take place April 30-May 5]

April 30, Friday

- Final Examination Period

May 1-5, Saturday-Wednesday

- Final Examination Period continued

May 5, Wednesday

- Final Grades due for Graduating Candidates

May 8, Saturday

- Commencement

May 11, Tuesday

- Final Grades Due for All Students

Academic Calendar-Summer 2004**April 13, Tuesday**

- Registration Begins

May 27, Thursday

- Dining Hall and Student Housing Opens

May 29, Saturday

- LAST DAY for Regular Registration [First 3, 5 and 10 week sessions]

May 31, Monday

- Memorial Day Holiday (University Closed)

June 1, Tuesday

- Instruction and Late Registration Begins [First 3, 5 and 10 week sessions]

June 2, Wednesday

- LAST DAY for Late Registration; Adding New Courses and Changing Schedule [First 3, 5 and 10 week sessions]

June 4, Friday

- Census Date (4th Class Day: First 3, 5 and 10 week sessions)
- Courses Cancelled For Non-Payment First and Second 3, 5, 8 and 10 weeks sessions
- LAST DAY to Drop Course(s) without Record [First 3, 5 and 10 week sessions]

June 5, Saturday

- Withdrawal with Automatic Grade of "W" Begins [First 3, 5 and 10 week sessions]

June 14, Monday

- Instruction Begins [8 week session]
- Late Registration; Adding New Courses and Changing Schedule for the 8 week session

June 24, Thursday

- Last Day to Withdraw from Course(s) with grade of "W" [First 5 and 10 week sessions only]

Academic Calendar – Summer 2004 (continued)**July 2, Friday**

- First Summer Term Ends [First 5 week session]
- Final Examination [First 5 week session]
- Regular Registration [Second 3, 5 week sessions]

July 5, Monday

- Instruction Begins [Second 3, 5 week sessions]
- Late Registration, Adding New Courses/Changing Schedule for [2nd 3,5 and 8 week sessions]

July 8, Thursday

- Census Date (4th Class Day- Second 3, 5 and 8 week sessions)
- DROP DAY [Courses Cancelled For Non-Payment Second 3, 5 and 8 week sessions]
- LAST DAY to Drop Course(s) without Record [Second 3, 5 and 8 week sessions]

July 9, Friday

- Withdrawal with Automatic Grade of "W" Begins [Second 3, 5 and 8 week sessions]

July 26, Monday

- Last Day to Withdraw from Course(s) with grade of "W" [Second 5 week and 8 week sessions only]

August 3, Tuesday

- Final Examination for Graduates [Second 5 week, 8 week and 10 week sessions]

August 4, Wednesday

- Final Grades Due for Graduating Candidates

August 5, Thursday

- Second Summer Term Ends [Second 5 week, 8 week and 10 week sessions]
- Final Examination for Non- Graduates

August 7, Saturday

- Commencement

August 10, Tuesday

- Final Grades due for All Students.

THE TEXAS A&M UNIVERSITY SYSTEM

Board of Regents

L. Lowry Mays... ..Chairman... ..San Antonio
 Erle Nye... ..Vice Chairman... ..Dallas
 Phil Adams... ..Bryan
 Anne Armstrong... ..Armstrong
 Wendy Gramm, Ph.D... ..Helotes
 Lionel Sosa... ..Floresville
 R. H. (Steve) Stevens, Jr... ..Houston
 John David White... ..The Woodlands
 Susan Rudd Wynn, M.D... ..Fort Worth

System Administration

Chancellor... ..Howard D. Graves
 Deputy Chancellor... ..Jerry Gaston
 General Counsel... ..Delmar Cain
 Vice Chancellor for Governmental Relations... ..Stanton Calvert
 Vice Chancellor for Administration... ..James Fletcher
 Vice Chancellor for Business Services... ..Tom D. Kale
 Vice Chancellor for Academic and Student Affairs... ..Leo Sayavedra
 Chief of Staff... ..Tami Davis Sayko
 Chief Auditor... ..Cathy Smock

PRAIRIE VIEW A&M UNIVERSITY

Administrative Officers

George C. Wright... ..President
 E. Joahanne Thomas-Smith... ..Provost and Vice President for Academic Affairs
 Dan Williams... ..Senior Vice President for Finance and Administration
 Willie A. Tempton... ..Senior Vice President for External Affairs and Development
 Willie F. Trotty... ..Vice President for Research
 Doris Price... ..Interim Vice President for Student and Enrollment Services

Academic Deans

College of Agriculture and Human Sciences... ..Elizabeth Noel
 School of Architecture... ..Ikhlas Sabouni
 College of Arts and Sciences... ..Gerard Rambally
 College of Business... ..Munir Quddus
 College of Education... ..M. Paul Mehta
 College of Engineering... ..Milton R. Bryant
 College of Juvenile Justice and Psychology... ..H. Elaine Rodney
 College of Nursing... ..Betty N. Adams
 Graduate School... ..William H. Parker

General University Information

Prairie View A&M University is accredited by the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, GA 30033-4097) as a comprehensive public institution of higher education authorized to award Bachelor's, Master's and Doctoral degrees, and is a member of the Texas A&M University System. It is a land-grant university authorized under the Morrill Acts of 1862 and 1890. The main campus is located in Waller County approximately 40 miles northwest of Houston and one mile north of Texas Highway 290 on Farm Road 1098. The College of Nursing facility is temporarily located at 1801 Main suite 801, 77002 near Saint Joseph's Hospital complex in downtown Houston.

The University offers a broad range of academic programs through the following administrative units:

- The College of Agriculture and Human Sciences
- The School of Architecture
- The College of Arts and Sciences
- The College of Business
- The College of Education
- The College of Engineering
- The College of Juvenile Justice and Psychology
- The College of Nursing
- The Graduate School

Though the University's service area has generally extended throughout Texas and the world, the University's target service area includes the Texas Gulf Coast Region, i.e., Waller, Harris, Montgomery, Washington, Grimes, Fort Bend, Galveston, Jefferson, Chambers, Liberty, Colorado, Wharton, Brazoria, and Austin Counties; the rapidly growing residential and commercial area known as the Northwest Houston Corridor as noted in the original Texas Plan; and urban Texas centers likely to benefit from Prairie View A&M University's specialized programs and services in juvenile justice, architecture, teacher education, social work, and the food, agricultural and natural resource sciences. Prairie View A&M University is authorized to offer a number of undergraduate and graduate degree programs at distant sites.

In addition to Prairie View A&M University, the Texas A&M University System consists of Texas A&M University at College Station with a Galveston campus as part of the College of Geosciences and Maritime Studies; Texas A&M University - Corpus Christi; Texas A&M International University; Texas A&M University - Kingsville; West Texas A&M University; Tarleton State University; Texas A&M University - Commerce; Texas A&M University - Texarkana; Baylor College of Dentistry; Texas Agricultural Experiment Station; Texas Cooperative Extension Service; Texas Engineering Experiment Station; the Texas Engineering Extension Service; Texas Animal Damage Control Service; Texas Forest Service; Texas Transportation Institute; and the Texas Veterinary Medical Diagnostic Laboratory.

History

Prairie View A&M University, the second oldest public institution of higher education in Texas, originated in the Texas Constitution of 1876. On August 14, 1876, the Texas Legislature established the "Agricultural and Mechanical College of Texas for Colored Youths" and placed responsibility for its management with the Board of Directors of the Agricultural and Mechanical College at Bryan. The A&M College of Texas for Colored Youths opened at Prairie View, Texas on March 11, 1878.

The University's original curriculum was designated by the Texas Legislature in 1879 to be that of a "Normal School" for the preparation and training of teachers. This curriculum was expanded to include the arts and sciences, home economics, agriculture, mechanical arts, and nursing after the University was established as a branch of the Agricultural Experiment Station (Hatch Act, 1887) and as a Land Grant College (Morrill Act, 1890). Thus began the tradition of agricultural research and community service, which continues today.

In 1919, the four-year senior college program was begun and, in 1937, a division of graduate studies was added, offering master's degrees in agricultural economics, rural education, agricultural education, school administration and supervision, and rural sociology.

In 1945, the name of the institution was changed from Prairie View Normal and Industrial College to Prairie View University, and the school was authorized to offer, "as need arises," all courses offered at the University of Texas. In 1947, the Texas Legislature changed the name to Prairie View A&M College of Texas and provided that "courses be offered in agriculture, the mechanics arts, engineering, and the natural sciences connected therewith, together with any other courses authorized at Prairie View at the time of passage of this act, all of which shall be equivalent to those offered at the Agricultural and Mechanical College of Texas at Bryan." On August 27, 1973, the name of the institution was changed to Prairie View A&M University, and its status as an independent unit of the Texas A&M University System was confirmed.

In 1981, the Texas Legislature acknowledged the University's rich tradition of service and identified various statewide needs which the University should address including the assistance of students of diverse ethnic and socioeconomic backgrounds to realize their full potential, and assistance of small and medium-sized communities and businesses in their growth and development.

In 1983, the Texas Legislature proposed a constitutional amendment to restructure the Permanent University Fund to include Prairie View A&M University as a beneficiary of its proceeds. The Permanent University Fund is a perpetual endowment fund originally established in the Constitution of 1876 for the sole benefit of Texas A&M University and the University of Texas. The 1983 amendment also dedicated the University to enhancement as an "institution of the first class" under the governing board of the Texas A&M University System. The constitutional amendment was approved by the voters on November 6, 1984.

In January 1985, the Board of Regents of the Texas A&M University System responded to the 1984 Constitutional Amendment by stating its intention that Prairie View A&M University become "an institution nationally recognized in its areas of education and research." The Board also resolved that the University receive its share of the Available University Fund, as previously agreed to by Texas A&M University and the University of Texas.

In October 2000, the Governor of Texas signed the Priority Plan, an agreement with the U.S. Department of Education Office of Civil Rights to make Prairie View A&M University an educational asset accessible by all Texans. The Priority Plan mandates creation of many new educational programs and facilities. It also requires removing language from the Institutional Mission Statement which might give the impression of excluding any Texan from attending Prairie View A&M University.

The University's enrollment now exceeds 6,700 including over 1,300 graduate students. Students come from throughout the United States as well as many foreign countries. Over 5,200 academic degrees have been awarded in the last five years, including over 1,800 graduate degrees.

Administrative Organization

A current organizational chart for Prairie View A&M University is available in the Office of Institutional Effectiveness, Research, and Analysis and in the Office of the Chancellor, Texas A&M University System.

Mission

Prairie View A&M University is dedicated to excellence in teaching, research and service. It is committed to achieving relevance in each component of its mission by addressing issues and proposing solutions through programs and services designed to respond to the needs and aspirations of individuals, families, organizations, agencies, schools, and communities—both rural and urban. Prairie View A&M University is a state-assisted institution by legislative designation, serving a diverse ethnic and socioeconomic population, and a land-grant institution by federal statute. Having been designated by the Texas constitution as one of the three “institutions of the first class” (1984), the University is committed to preparing undergraduates in a range of careers including but not limited to engineering, computer science, natural sciences, architecture, business, technology, criminal justice, the humanities, education, agricultural sciences, nursing, mathematics, and the social sciences. It is committed to advanced education through the master’s degree in education, engineering, natural sciences, nursing, selected social sciences, agriculture, business, and human sciences. It is committed to expanding its advanced educational offerings to include multiple doctoral programs.

Though the University’s service area has generally extended throughout Texas and the world, the University’s target service area for offering undergraduate and graduate programs of study includes the Texas Gulf Coast Region; the rapidly growing residential and commercial area known as the Northwest Houston Corridor; and urban Texas centers likely to benefit from Prairie View A&M University’s specialized programs and initiatives in nursing, juvenile justice, architecture, education, and social work. The University’s public service programs offered primarily through the Cooperative Extension Program target the State of Texas, both rural and urban counties. The University’s research foci include extending knowledge in all disciplines offered and incorporating research-based experiences in both undergraduate and graduate students’ academic development.

Rules and Procedures on Discrimination, Harassment, and Privacy

Prairie View A&M University is a member of the Texas A&M University System, and, as such, complies with all applicable state and federal laws and regulations on discrimination, harassment and privacy. These laws and regulations include Title V of the Rehabilitation Act of 1973, Title VII of the Civil Rights Act of 1964, and Title IX of the Education Amendment Act of 1972 and the Family Educational Rights and Privacy Act of 1974. For more details, please consult the Prairie View A&M University web site (www.pvamu.edu).

Equal Opportunity Policy Statement

Prairie View A&M University is fully committed to equal opportunity and affirmative action in all aspects of its employment and employee relations. Each employee and all applicants for employment are to be treated fairly and equitably and with human dignity. No employee, student, or representative of the University shall be subjected to sexual harassment, racial or sexual denigration, or any other form of illegal discrimination.

Policy Against Discrimination

No person shall be excluded from participation in, denied the benefits of, or be subject to discrimination under any program or activity sponsored or conducted by The Texas A&M University System or any of its component institutions on any basis prohibited by applicable law, including (but not limited to) race, color, national origin, religion, sex, or handicap.

Title IX of The Education Amendment Act of 1972

Prairie View A&M University does not discriminate against persons on the basis of sex. Individuals will not be excluded from participation in, be denied the benefits of, or be subjected to discrimination on the basis of sex under any educational program, service or activity offered by the University.

Title V of the Rehabilitation Act of 1973

In compliance with Title V of the Rehabilitation Act of 1973 and Sections 501, 502, 503, and 504, Prairie View A&M University prohibits the imposition of rules or restrictions that have the effect of limiting participation of students with disabilities in educational programs or activities. Appropriate academic accommodations and reasonable modifications to policies and practices are made to assure that students with disabilities have the same opportunities as other students to be successful on the basis of their intellectual abilities and academic achievements.

Right to Privacy

Family Educational Rights and Privacy Act of 1974 contained in Public Law 93-380 of the Educational Amendments of 1974, is designed to protect the rights and privacy of students.

Official records are not opened to the public and will not be divulged without the consent of the student. Minors (those under 18 years of age) attending the university have the same right to privacy of their records as adult students.

The Buckley Amendment provides that certain directory-type information may be made public on all students unless individual students state in writing (within the first twelve class days) to the Office of the Registrar that they do not wish that information to be released. Such directory-type information may include (but is not limited to) name, address, telephone number, date and place of birth, major, participation in activities, dates of attendance, and degrees and awards received.

Academic information is confidential. However, in order for the University to serve students, academic information is shared with University administrative offices and academic advisers for the purpose of providing services to the student.

Student Services Information

Prairie View A&M University is student centered. The University believes that the intellectual and moral growth of students occurs both within and outside the formal classroom setting. Residential and social life experiences are regarded as learning opportunities, significant in their own right and complementary to those provided within the academic curriculum. Thus, the University is committed to providing a co-curricular environment which allows students to pursue special interests, fulfill individual needs, and actively contribute to the University's residential and community life. A complete listing of the University's student services is provided in the *Prairie View A&M University Student Handbook*. Those services that are particularly relevant to academic life at the University are briefly described below.

The primary purpose of the Student Financial Aid Program at Prairie View A&M University is to provide financial assistance to persons, who without this aid would be unable to begin or to continue their education. The selection of aid recipients is based upon academic achievement, and financial need. Financial aid is designed to assist with the cost of a college education. It is intended to supplement the financial resources of the family and the student. It includes gift aid (grants and scholarships), low interest loans, and work-study.

General Information

Prairie View A&M University has the following major student financial assistance programs:

- Federal Pell Grant
- Stafford Loans
- PLUS Loans
- Federal Supplemental Educational Opportunity Grants (FSEOGs)
- Federal Work-Study
- Scholarships

Grants are financial aid you don't have to pay back

Work-Study lets you work and earn money to help pay for school

Loans are borrowed money that you must repay with interest

Undergraduates may receive grants, loans, and Federal Work-Study.

Graduate students may receive loans and federal Work-Study, but not Federal Pell Grants.

Academic Scholarships

The university annually awards a number of academic scholarships through university funds and through funds made available by friends and supporters. Although a student's financial need may be considered in making the award decision, these scholarships generally are awarded for academic achievement indicated by grades earned in high school and college course work, test scores, such as SAT or ACT, participation in extracurricular activities, good conduct record, and other criteria defined by the specific scholarship programs.

The university offers a limited number of scholarships to provide opportunities to students whose geographic, cultural, economic and/or professional interests and aptitudes are underrepresented in the student population at Prairie View A&M University. Grades earned in high school and college course work, as well as SAT or ACT test scores, are considered in making these awards.

Inquiries about all university scholarship programs should be directed to the Central Scholarship Office, Prairie View A&M University, P. O. Box 337, Prairie View, Texas 77446. Scholarships and other financial assistance information can be found on-line at: <http://www.pyamu.edu>.

Student Eligibility

To receive aid from the Student Aid Program at Prairie View A&M University, you must:

- have a financial need (some loan programs are exceptions);
- have a high school diploma or a General Education Development (GED) certificate;
- be enrolled or accepted for enrollment as a regular student working toward a degree or certificate in an eligible program;
- be a U. S. citizen or eligible program;
- have a valid Social Security Number;
- make satisfactory academic progress;
- sign a statement on the Free Application for Federal Student Aid (FAFSA) certifying that you will use federal student aid only for educational purposes;
- sign a statement on the FAFSA certifying that you are not in default on a federal student loan and that you do not owe money back on a federal student grant;
- register with the Selective Service, if required.

Philosophy of the Financial Services Office

We believe that:

- Our first responsibility is to assist the most economically disadvantaged student.
- Self-help (loan and work) should be a part of the University aid award.
- Students should make a commitment to their education with both current and future earnings; this means both working and borrowing to pay for their education;
- Student budgets should reflect reasonable allowances for typical student expenses.
- The Federal Need Analysis Methodology (FM) is designed to provide an equitable formula for evaluating students.
- Funding is limited and may not meet your total need. Therefore, the Financial Aid Office will award aid to the neediest students first. Aid continues to be awarded on an ongoing basis until funding is exhausted.
- We have a responsibility to develop information and policies that minimize defaults on student loans.
- The financial aid packaging process ensures effective use of the funds available, and fair and equitable treatment of all aid applicants.

Applying for Financial Aid

What Form Do I Use?

You can apply for federal aid by completing and submitting the current Free Application for Federal Student Aid (FAFSA).

You can get the application from any high school, college or university.

Will I Need to Fill Out Forms in Addition to the FAFSA to Receive Aid?

To be considered for non-federal aid such as institutional aid (aid from Prairie View A&M University), you will have to fill out additional forms, which are in the Financial Services Office, and there are deadline dates to get these forms on file.

Other required documents that may be requested, if needed

1. Alien Registration Card (I151 or I168)
2. Anti-Drug Abuse Certificate
3. Authorization to Credit Account
4. Copy of Birth Certification
5. Copy of Social Security Card
6. Financial Aid Application
7. Graduate School Verification
8. Independent Student Affidavit
9. Pell Verification Form
10. Proof of Citizenship Information
11. Selective Service Verification
12. Separation or Divorce Form
13. Signed 1040 Tax Form and W-2 Statement for Parent
14. Signed 1040 Tax Form and W-2 Statement for Student
15. Signed Non-Filing Tax Statement
16. Social Security Benefits Verification Form
17. Statement of Educational Purpose

When Do I Apply?

Apply as soon AFTER January 1 as possible (you can't apply before this date). It's easier to complete the application when you already have your current tax year's return, so you may want to complete your tax return as early as possible. Do not sign, date, or send your application before January 1. You need to apply only once each school year.

Send your complete application in the envelope that came with it. It is already addressed, and using it will ensure that your application reaches the correct address.

What Happens After I Apply?

After your complete application is received by the processing system, the processor will produce a Student Aid Report (SAR). The SAR will report the information from your application, and if there are no questions or problems with your application, your SAR will report your Expected Family Contribution (EFC), the number used in determining your eligibility for federal student aid. The results will be sent to you and to the schools that you listed on your application.

If you apply using FAFSA on the Web or FAFSA Express, in some cases, you'll have to mail in a signature page before your application can be processed. You will receive a Student Aid Report (SAR) in the mail up to 14 days after you submit your computed application, including a signature (if required).

It will take about four weeks for your application to be processed if you apply by paper application and for you to receive a SAR in the mail.

If it's been more than four weeks since you submitted your application and you haven't heard anything, you can check on your application through the FAFSA on the Web site, even if you did not apply using FAFSA on the Web.

Important Deadline Dates and Priority Dates

January 1 st	Free Application for Federal Student Aid (FAFSA) available and should be completed.
March 1 st	Priority Deadline for Summer Aid
April 1 st	Priority Deadline for Fall Aid
November 1 st	Priority Deadline for Spring Aid

Deciding to Accept or Decline Your Award

1. It is our policy to award grants to students who demonstrate the highest financial need. For you to be able to afford the cost of attending Prairie View A&M University, assuming you have high financial need, we expect it to be necessary for you to also accept loans and/or work-study you have been awarded.
2. If you did not receive enough financial aid, let us know. Help us to better understand your situation. If you have unique circumstances, we may be able to address them.

NOTE: You must reapply for federal aid every year. Also, if you change schools, your aid doesn't go with you. Check with your new school to find out what steps you must take to continue receiving aid.

3. Your signature on your financial aid award letter certifies that:

- you are accepting or declining the aid offered to you as you have indicated on the letter, and
 - you will report receipt of any additional resources, such as scholarships, to the Financial Aid Office.
4. If you attend two schools in the same enrollment period, you must inform the financial aid offices at both schools. You can only receive federal or state aid at one school during the same enrollment period.

Withdrawal Policy and Procedures

If you withdraw from the University, keep the following points in mind:

1. To officially withdraw, undergraduate and graduate regularly admitted students should contact the Registrar's Office and Student Financial Services Office. If you leave the University and do not formally withdraw, you will be assigned a grade of "F" (failure).
2. Withdrawal does not eliminate your financial obligation to the University. You are still responsible for any charges owed to the University at the time you withdraw, based on the University's tuition and housing refund policies.
3. There are specific federal, state, and University withdrawal policies regarding tuition and fees, housing charges, refunds to financial aid programs, and repayment resulting from withdrawal.
4. When withdrawing there are three situations, which may require an immediate repayment of financial aid funds:
 - a. If your University charges are reduced as a result of withdrawal, and it creates a credit balance on your student account, these funds may be used to repay the financial aid programs. This will depend on the amount of your financial aid and the date of withdrawal.
 - b. If you withdrew a credit balance from your student account to use for living expenses, you may have to repay financial aid funds, which are in excess of an amount determined to be reasonable for the length of your enrollment.
 - c. If you withdraw during free add/drop, you are not eligible to receive any financial aid for that term, and any credit balance you withdrew from your student account must be repaid.

Return of Title IV Financial Aid Funds Policy at Prairie View A&M University

Payment of tuition and fees are due when students select and complete registration for courses. **NO MATTER IF PAYING CASH OR USING FINANCIAL AID.**

If your tuition and fees have been paid using Title IV money such as Pell Grant, SEOG, Subsidized Stafford Loan, Unsubsidized Stafford Loan, PLUS Loan, and LEAP, Prairie View A&M University must adhere to a Return of Title IV Funds Policy when you drop out of classes, withdraw from the University, or cease attendance. This Return of Title IV Funds Policy was enacted in the Higher Education Amendments of 1998 by the Department of Education in Washington, DC on November 1, 1999, which governs Federal Title IV Financial Aid Programs. This policy requires Prairie View A&M University to use a statutory schedule to determine the amount of Title IV funds a student has earned as of the date the student withdraws from classes or ceases attendance. The amount of Title IV funds earned based on the amount the student spent in attendance has no relationship to the student's incurred institutional charges. The pro-rata schedule must be calculated up to the 60% point of the payment of fees and tuition period. After the 60% point of attendance, the student is considered to have earned 100% of the Title IV Funds.

Prairie View A&M University is not required to take attendance of its students. However, the institution has a uniform withdrawal policy for all students. Students must provide official written notification of withdrawal from one or all courses. When a student notifies Prairie View A&M University, in writing, according to the policy that they are withdrawing from the University, the date the institution determines the student withdrew is the same as the withdrawal date. In the case the student does not provide written notification of withdrawal, Prairie View A&M University will use the last day of attendance as an academically related activity. The beginning of the withdrawal process for Prairie View A&M University is determined by the date on which the student provides written form to the Registrar's Office. If a student "drops out" of course or ceases attendance and does not notify Prairie View A&M University, the withdrawal date will be the mid-point of the payment period.

Satisfactory Academic Progress Policy

Academic Standards for Financial Aid Recipients

Prairie View A&M University requires all financial aid recipient to maintain satisfactory academic progress toward a degree. This policy provides for a probationary period of two semesters before a student is placed on financial aid suspension. The Satisfactory Academic Progress Policy for financial aid is applicable to all students receiving financial aid funds during any academic semester.

To satisfy academic progress requirements, students must:

1. Graduate from high school with a minimum grade point average of 2.00. A student who fails to meet the GPA requirements upon initially applying for financial aid must complete one full-time semester of twelve (12) or more hours with a 2.00 GPA before his/her application for aid can be considered.
2. Transfer student must transfer a minimum grade point average of 2.00 or higher from all previously attended schools. All semester hours attempted will be used to determine GPA, not just the semester hours accepted by the Office of Undergraduate Admissions.

Quality Assurance Program

The U. S. Department of Education requires each university to conduct activities that will verify financial aid information provided by its students. This process may be done by verifying applicants selected by the Department of Education or through the Quality Assurance Program.

Prairie View A&M University participates in the Quality Assurance Program. This program is governed by federal regulations, and the results of our findings are reported to the federal government.

The process begins in late September, and approximately 300 financial aid recipients are randomly selected. If selected, students must submit documentation to verify the information provided on the application. Errors made may result in reductions or increases in aid eligibility. Participation is mandatory for selected students, and non-compliance can result in cancellation of fall and spring aid.

Financial Assistance

You must pay the full amount due for your tuition and fees by your due date or your registration will be canceled. This includes additional charges for classes added after your billings.

Student Receiving Financial Assistance

If you have been offered financial assistance by the Office of Student Financial Services to prevent your registration from being canceled, prior to the due date on your statement you must submit your acceptance of financial assistance offered in amounts sufficient to pay your current balance due. Your registration will not be canceled, even if that aid is not yet reflected on our statement; however, there are exceptions to this rule. Financial assistance that will NOT prevent cancellation of classes includes: non PVAMU scholarships, Federal Parent Loans for Undergraduate Students (FPLUS), state or federal work-study, and miscellaneous student loans or other funds that pay directly to the student. These forms of financial assistance do not count toward payment until the funds are credited to your account. You must pay whatever your financial assistance does not pay for prior to the due date on your statement to avoid late penalties.

Most assistance will be automatically credited to your account and applied against outstanding charges. This includes additional charges for classes added after you received your billing. A refund check will be mailed to you for the remaining balance.

IMPORTANT: If you have accepted financial assistance, but have decided not to attend, you **MUST** advise the Registrar's Office and the Office of Student Financial Services of the fact. In most cases your assistance could be enough to hold your registration from the automatic cancellation process. If you fail to contact the University about your intentions, it can result in severe financial and academic penalties.

Students making partial payment will automatically be placed on the installation plan. If doing so reduces the current due balance to an amount less than or equal to the amount of payments made, the student's registration will not be canceled. However, these students will be required to pay the \$36 installment payment service fee.

Enrollment Requirement for Receiving Financial Assistance

For a student to receive financial assistance, minimum semester credit hour enrollment requirements must be met. Refer to the following table to determine the number of hours required for you to receive financial assistance. You are responsible for meeting the minimum enrollment requirements. Receiving assistance to which you are not entitled or receiving assistance and then dropping to below the required number of semester credit hours constitute a violation of University policy and state and/or federal law. As a result, you may be required to repay financial assistance received.

Minimum Semester Credit Hour Requirements for Receiving Financial Assistance

Semester Credit Hours Required for:

	Full-Time	Half-Time
Undergraduate	12 SCH	6 SCH
Graduate	9 SCH	6 SCH

Type	Minimum Requirements
All Scholarships	Full-Time
Federal Perkins Loans	Half-Time
Grants (other than Pell)	Full-Time
Federal Stafford Loans	Half-Time
Federal Pell Grants (undergraduates only)	Half-Time

**Prairie View A&M University
Office of Student Financial Services
Information Center**

P. O. Box 2967
Prairie View, Texas 77446

Location: Memorial Student Center, 3rd Floor

Telephone: 936-857-2422/2424

Fax: 936-857-2425

URL: <http://www.pvamu.edu>

E-mail: faid@pvamu.edu

Financial Aid Counselors are available to provide assistance to students and their parents on the status of their financial aid.

Financial Counselors

- A - F Mr. Clarence Wolfe
- G - L Ms. Alene Williams
- M - Q Ms. Gloria Armstrong
- R - U Ms. Rae Gaut
- V - Z Ms. Verlcia Pope

Scholarship Office

P. O. Box 337
Prairie View, Texas 77446

Location: Memorial Student Center, 3rd Floor

Telephone: 936-857-4853/4930

Fax: 936-857-2611

URL: <http://www.pvamu.edu>

E-mail: cscholarships@pvamu.edu

Contacts: Mrs. Linda Durham
Mrs. LaTonia Gertman

Library and Instructional Services

The five-story John B. Coleman Library opened in 1988. As the central provider of library and instructional support services for students and faculty, it ensures on-site, on-shelf and electronically accessible information for campus-based and distance learning sites. Additionally, it supports the needs of the vibrant research and service components of the University. Services provided by the J.B. Coleman Library are augmented by campus-wide computing services provided by the Information Technology Department and by special faculty support services offered by the Center for Teaching Excellence and Distance Education.

Appropriate library and instructional support services are provided to students who attend classes at any of the following distant learning sites: Houston Nursing Center, Houston; Northwest Graduate Center, Spring, Texas (Coastal Bank Facility); the Moore Communications Building, College Station, Texas; the University Center, Killeen, Texas; and the University Center, Conroe/Woodlands, Texas.

The Reference Department provides library orientation and research assistance for faculty, students, researchers, and community patrons including area school pupils. Guidance in conducting computer research is also available. Patrons may utilize the Circulation Department's OCLC national interlibrary loan service for obtaining material not held by Prairie View A&M University. Faculty and students may apply for a TEXSHARE card to utilize collections among academic institutions in Texas. Faculty and graduate students may also obtain a HARLIC (Houston Area Research Library Consortium) card, which may be used to checkout materials from area member libraries.

For a full description of library resources available, see the J.B. Coleman Library's web page at <http://www.tamu.edu/pvamu/library>

Information Technology Services

Information Technology (IT) Department provides educational and administrative computing services to students, faculty, and staff. Students are currently supported through four (4) Student Computer Centers and various specialized computer labs. These Centers are for general-purpose educational use and are available to all Prairie View A&M University students. The IT Department provides technical support to various specialized departmental labs that are designed to enhance the academic skills of targeted groups of students. These labs are normally managed and funded by the appropriate departments/colleges. The Computer Centers are limited to hours of operations for the building and most labs are open during extended hours. Computing resources are available for activities such as e-mail, web browsing, word processing, data and statistical analysis, and multimedia presentations. Students are able to view their personal information, class schedules, available courses and sections, grades, financial records, library resources, University catalogues, Financial Aid information, and more online. The IT Department provides Internet services and creates an e-mail account for every student and employee. Administrative processes and support are provided to faculty and staff via specialized application software packages that reside on servers and the mainframe.

Health and Counseling Services

The Owens-Franklin Health Center located on the main campus coordinates health and counseling services for the student body. The Health Center is open from 8:00 a.m. to 6:00 p.m., Monday through Friday, with licensed and/or certified health care professionals to attend to basic health care needs. Emergency Medical Services (including ambulance transport) are provided by Waller-Hempstead EMS with on call (24 hour) paramedics. The University further enhances its urgent care services by stationing on campus (for campus calls only) Emergency Medical Technicians (State Certified) between the hours of 6:00 .m. and 8:00 a.m., Monday through Friday and for 24 hours per day on Saturdays and Sundays. The 911 Emergency Services is also available 24 hours per day, seven days per week for life threatening emergencies.

The Student Health fee covers unlimited office visits and after hours Urgent Care Services. Additionally, students are discounted 25% for all ancillary services including laboratory, x-ray and/or pharmaceutical services. Ambulance transportation or services rendered at full service hospitals are the responsibility of the student. It is recommended that all students have personal health insurance coverage. For a minimal charge, a student health insurance policy can be obtained to cover emergencies and hospital care not covered by the Student Health Fee. Information about student health insurance is available at the Owens-Franklin Health Center.

Counseling services are provided 24 hours a day, seven days per week. Licensed counselors maintain regular office hour's 9:30a.m. - 7:30 p.m., Monday through Friday, and are on call during the remaining hours. Licensed counselors are available to provide crisis intervention, individual and/or group therapy as required.

Disability Services

The Office for Disability Services is responsible for achieving and maintaining program accessibility for all students who self-identify as having an officially documented disability (Rehabilitation Act, Section 504 and Americans with Disability Act). Students are encouraged to become self-advocates; however, the Office for Disability Services provides leadership in advocating for removal of attitudinal and physical barriers that may impede successful progression toward achievement of the student's educational objectives.

Students requesting service through the Office of Disability Services must submit all documentation and meet all eligibility requirements each semester. Services are determined based on individual assessment, but generally involve academic adjustments that will support the student's access to programs and services within the University.

For information about the complaint and appeal procedure and other services available from the Office for Disability Services, visit Evans Hall, Room 315 or call (936) 857-2610.

Safety and Security Services

Prairie View A&M University is dedicated to ensuring the physical security and personal safety of its community members. The University strives to provide all students, faculty, and employees with a safe environment in which to learn and work. Achieving and maintaining this environment requires that all persons commit themselves to being responsible, active participants in the exercise of safety and security. Members of the University community must be knowledgeable of the rules and procedures governing the maintenance of a safe, secure environment.

To promote the safety and security of the campus and its community members, Prairie View A&M University has established both the Environmental Health and Safety Department and the University Department of Public Safety. For information on safety training or to report unsafe conditions please call (936) 857-4121 (extension 4121), or visit <http://www.pvamu.edu> or email ehsd@pvamu.edu.

The Prairie View A&M University Department of Public Safety operates 24 hours daily and provides police, fire, civil defense, and other emergency services to the university. Officers enforce university regulations as well as county and municipal ordinances, and state and federal laws. As peace officers, they are vested with all powers, privileges, and immunities of peace officers while in the performance of their duties.

Student Financial Services

The primary purpose of Student Financial Services is to assist students with meeting college costs. Assistance for graduate students includes loans, assistantships, work study, stipends, and scholarships/fellowships. Both stipends and scholarships/fellowships are coordinated by the respective schools and colleges.

Graduate Teaching and Non-Teaching Assistantships

University Graduate Non-Teaching and Teaching Assistantships are managed by the schools and colleges. These appointments are available for full-time, enrolled graduate students. Assistantships may be distinguished as follows:

1. A graduate teaching assistant has at least a bachelor's degree and eighteen graduate credits in the field in which employment is held. A graduate teaching assistant may assist the professor of record by giving lectures and carrying out other classroom teaching, and may prepare and grade examinations under the direct supervision of an experienced faculty member.
2. A graduate non-teaching assistant must have a bachelor's degree and may be assigned to tasks that do not involve classroom teaching. Such activities may include laboratory assistance, research assistance, grading objective examinations, keeping class records, and performing similar functions.
3. A doctoral teaching assistant must have a master's degree, be fully admitted to a Ph.D. program and have a minimum of 18 graduate credits in the field in which employment is held. A doctoral teaching assistant is the teacher of record but performs teaching duties under the supervision of an experienced faculty member.
4. A doctoral research assistant must have a master's degree and be fully admitted to a Ph.D. program. Assignments may include assisting in faculty research, writing grant proposals, and performing grant related assignments.

International students "for whom English is a second language" may be appointed as graduate teaching assistants only when results of a test of spoken English or other reliable assessment of the applicant's proficiency in oral communication and speech indicates that the appointment is appropriate.

Supervision

Each assistant must be assigned to a supervisor who will give guidance and assist the student in carrying out work assignments. The supervisor is responsible for assigning tasks, monitoring the progress of work, keeping a record of hours worked, and evaluating the performance of the student. At the end of each school year, each supervisor must submit an evaluation of the work performance of the students supervised.

Graduate Teaching Assistant Appointment Criteria

1. Must be enrolled as a full-time graduate student at Prairie View A&M University.
2. Must have a minimum of eighteen (18) graduate credits in the teaching field.
3. Must be in good academic standing.

Graduate Non-Teaching Assistant Appointment Criteria

1. Must be enrolled as a full-time graduate student at Prairie View A&M University.
2. Must be in good academic standing.

Doctoral Teaching Assistant Appointment Criteria

1. Must be enrolled as a full-time doctoral student at Prairie View A&M University.
2. Must have a master's degree and a minimum of eighteen (18) graduate credits in the teaching field.
3. Must be in good academic standing.

Doctoral Research Assistant Appointment Criteria

1. Must be enrolled as full-time doctoral student at Prairie View A&M University.
2. Must be in good academic standing.

Application Procedures

Students who wish to apply for assistantships must do so on forms available in the Office of Graduate Programs. Approval of an application depends upon the student's academic background, present status, and the availability of funds. Assistants in academic departments work under the supervision of appointed faculty members. In other units, the Head of the Department or the appointed supervisor provides supervision.

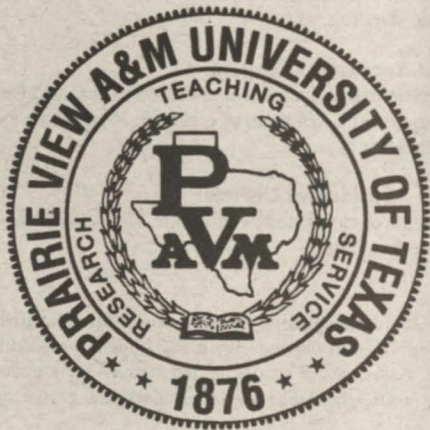
An application approved by a department is submitted to the Coordinator of Graduate Programs for final action. Once approved, appropriate forms are submitted to the student employment office for processing. Once the student's name is entered on the payroll, payment is made at a designated time each month.

Where separate funding sources are involved, doctoral students who wish to apply for assistantships must do so on forms available in their program office. Approval of an application depends on the student's academic background, current skills, and the availability of funds. Doctoral assistantships are awarded on a competitive basis. The Dean of the college or school housing the doctoral program and overseeing the funding source is the final authority. However, appropriate forms are submitted to the Office of Graduate Programs for normal processing.

Remuneration

Assistants may work no more than 20 hours per week. The rate of pay is based on the academic training and experience of the assistant and is specified as follows:

<i>Appointment</i>	<i>Pay Rate</i>
Doctoral Assistant (with Master's)	Rate of pay based on funding source, but no lower than Graduate Assistant (with Master's)
Graduate Assistant (with Master's)	Highest Rate of Pay
Graduate Assistant (with Bachelor's degree plus 15-18 graduate hours in research or teaching field, respectively)	Medium Rate of Pay
Graduate Assistant (with Bachelor's degree only)	Base Rate of Pay (Federal Minimum Wage)

**Tuition and Fees**

Registration at the University consists of enrolling in classes and paying required fees and charges. Registration cannot be completed and no student can be formally in a class until all required fees and charges, including any prior balances, are paid to the Office of Fiscal Affairs.

Fee Payment Plans

Prairie View A&M University offers the following fee payment plans for the payment of tuition and fees:

- Full Payment In Advance**
Full payment of tuition and fees in advance of the beginning of the semester.
- Installment Payment Plan (Fall/Spring semesters only)**
Payment of one-half of tuition and fees in advance of the beginning of the semester, payment of one-quarter prior to the start of the sixth class week, and payment of the final one-quarter prior to the beginning of the eleventh class week. The University will not accept initial payment for an amount less than the required 50%.

Unpaid Obligations

Students who do not fulfill their financial obligations when due are subject to the following actions by the University:

- First Installment**
Students failing to make a minimum payment of 50 % of their tuition and fees at the beginning of the semester will be dropped from enrollment on the 12th day of class for Fall/Spring semesters. Students that are dropped will have all of their tuition and fees dropped, except that on-campus students will be required to pay a prorated portion of the board and laundry charges.
- Second and Third Installments**
Students failing to make the second and third installment payments by the required due dates will be subject to the following penalties:
 - Assessed \$50 installment late fee per late payment
 - Blocked from future registrations
 - Blocked from receiving transcripts

Fee and Financial Aid Refunds

Fee refunds will be given for withdrawal from the University within the time constraints described in the refund schedule sections below. A full refund of applicable tuition and fees will be given for courses dropped within the first 12 class days of the fall or spring semesters, or within the first 4 class days of summer session, provided that student remains enrolled at the institution for that semester or session. Students who wish to withdraw from the University after registering must follow prescribed procedures for withdrawal or assume liability for all fees assessed. Withdrawal forms are available in the Registrar's Office. Students who have questions or concerns regarding the calculation of their refund may appeal by letter to the addresses below and should state in their letter the portion of the refund that is being questioned. Allow 30 days for response.

Financial Aid Refunds

Executive Director of Student Financial Services
Prairie View A&M University
P.O. Box 2967
Prairie View, TX 77446-2967

Fee Refunds

Manager of Treasury Services
Prairie View A&M University
P.O. Box 248
Prairie View, TX 77446-0248

Fee Refund Schedule

The following schedule applies to refunds of tuition and fees (excluding room, board and laundry) for students who withdraw from the University.

Fall or Spring Semester

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

Summer Sessions

Prior to the first class day	100%
During the first, second, or third class day	80%
During the fourth, fifth, or sixth class day	50%
Seventh class day and thereafter	None

Board and Laundry charge refunds will be handled as follows:

Board Plan. Payments made for board will be refunded in full to students who officially withdraw before the first day of official registration for that term. Refunds of actual payments on or after the first day of official registration for actual payments will be prorated on a daily basis less an early withdrawal fee of ten (10) percent of the semester rate.

Laundry Fee. Laundry fee refunds will be prorated on a weekly basis.

Financial Aid Refund Schedule

The University is required to reimburse the Title IV (Federal Financial Aid) programs based on the percentage of these funds applied to the total charges for the first time students receiving aid from these programs according to the following schedule.

Fall or Spring Semester

Prior to registration	100%
Within week 1	90%
Within week 2	80%
Within week 3	80%
Within week 4	70%
Within week 5	60%
Within week 6	60%
Within week 7	50%
Within week 8	50%
Within week 9	40%
Within week 10	40%
After week 10	None

Summer Term

Week 1	80%
Week 2	60%
Week 3	40%
Week 4 and after	None

Students who receive overpayment checks from these federal programs and withdraw from the University within the first 10 weeks may be required to return a portion of these funds to the Title IV program.

Schedule of Tuition and Fees

<i>Fee Name</i>	<i>Fee Description</i>	<i>Fee Rate</i>
Tuition	All students are required to pay tuition to help defray the cost of instruction and general operation of the University. Tuition rates are as follows. Resident – Undergraduate Resident – Graduate Non-Resident For the fall/spring semesters, minimum tuition is \$120 for Resident students and \$262 non-resident students. For the summer term, minimum tuition is \$60 for Resident students and \$262 for non-resident students.	\$44 \$48 \$262 <i>per semester credit hour</i>
Board Authorized Tuition	All students are required to pay Board Authorized Tuition to help defray the cost of instruction and operation of the University.	\$36 <i>per credit hour</i>
Lab	Students who register for lab courses are required to pay a Laboratory fee for each lab course to help defray the cost for lab equipment, supplies etc.	\$5 - \$30 <i>per course</i>
**Student Services	All students are required to pay a student service fee, which is used to provide recreational activities, intercollegiate athletics, student publications, and other student programs, services and activities. Maximum fee is \$150 per fall/spring semester.	\$14 <i>per semester hour</i>
**Student Center	All students are required to pay a student center fee, which is used to support the construction, operation and maintenance of the Memorial Student Center.	\$40 (fall/spring) <i>per semester</i> \$20 (summer) <i>per session</i>
Computer Access	All students are required to pay a computer access fee to help defray the cost of maintaining centralized academic computer labs for all students.	\$4 <i>per semester credit hour</i>
**Student Health	All students are required to pay a student health fee to cover the cost of providing basic health care and urgent care services in the University's Health Center. Students are entitled to unlimited office visits in the University's Health Center and a 15% discount on lab, x-ray and pharmacy services.	\$75 <i>per fall/spring semester</i> \$25 <i>per summer session</i>
Registration	All students are required to pay a fee to cover: Registration Late Registration (fall/spring) Late Registration (summer) Registration in Absentia (resident) Registration in Absentia (non-resident)	\$10 \$25 \$12.50 \$15.00 \$17.50 <i>per semester</i>
International Education	All students are required to pay a fee to provide funding to assist students participating in international student exchange or study programs.	\$1 <i>per semester</i>

Library Access Fee	All students are required to pay a Library Access Fee to help defray the cost of providing library resources.	\$5 per semester credit hour
Room Rent	A charge assessed to students living on campus to cover the cost of operating the privately operated housing facilities.	
Phase I and II	<u>Fall/Spring Semester</u> University Village 4 bedroom	\$1,560
Phase II	2 bedroom	\$1,176
Phase III	4 bedroom	\$1,800
Phase III	2 bedroom	\$2,032
	University College	\$1,713
	<u>Summer Session</u> University Village 4 bedroom	
	10 week session	\$900
	8 week session	\$800
	5 week session	\$495
	2 bedroom	
	10 week session	\$1,000
	8 week session	\$900
	5 week session	\$550
		<i>per semester</i>
	Room rent is collected directly by the company operating the facilities. For students with financial aid overpayments, the University facilitates the rent payment by assessing the charge to the student's fee account and remitting a check directly to the operator of the facilities.	
Board Plan	A charge assessed to all students living on campus to cover the cost of providing the following required meal plans:	
	<u>Fall/Spring Semester</u> 21 Meals per week, \$25 in points	\$998
	14 Meals per week, \$50 in points	\$946
	10 Meals per week, \$100 in points	\$884
	7 Meals per week, \$200 in points	\$811
	5 Meals per week, \$250 in points	\$780
	<u>Summer Session</u> 21 Meals per week	
	10 week session	\$748
	8 week session	\$598
	5 week session	\$374
	3 week session	\$224
	These charges are subject to State Sales Tax.	

Laundry Plan	A charge assessed to students living on campus to cover the cost of providing a centralized Laundromat. The charges assessed are: <u>Fall/Spring Semester</u> <u>Summer Session</u> 10 week session 8 week session 5 week session 3 week session	\$60 \$43 \$30 \$22 \$13
	These charges are subject to State Sales Tax.	<i>per semester</i>
I.D. Card	A fee assessed to all students to cover the cost of issuing identification cards and maintaining the University's card access system.	\$5 per semester
Application	A fee assessed to all students applying for admission to the University. The fee helps to defray the costs associated with the admissions function. Application Late Fee International Student Graduate Student	\$25 \$15 \$50 \$50
		<i>per semester</i>
Auditing	A fee assessed to students desiring to audit a course. The fee is used to defray the administrative cost associated with providing the services.	\$10 per course
Returned Check	A fee assessed to students whose check for payment of their fees does not clear their bank. The fee is used to defray the costs associated with handling/collecting returned checks.	\$25 per check
Certificate	A fee assessed to students receiving a certificate for completing a non-degree program at the University.	\$6 per certificate
Diploma/Graduation	A fee assessed to graduating students to help defray the costs associated with performing a degree audit and issuing a diploma to student. The fee is as follows: Doctoral Graduate (Masters) Undergraduate Late Fee	\$50 \$30 \$20 \$25
		<i>per degree</i>
Installment Carrying	A fee assessed to all students electing to pay by the installment plan. The fee is used to help defray the cost associated with record keeping and collections.	\$36 per semester
Distance Learning Fee	A fee assessed to all students who take only electronically-delivered courses.	\$35 (fall/spring) \$25 (summer) <i>per semester credit hour</i>

Biology Equipment Access Fee	A fee assessed to students enrolling in Biology courses to help defray the cost of providing and maintaining instructional equipment.	\$60 per course
College of Business Equipment Access Fee	A fee assessed to students enrolled in Business courses to help defray the cost of providing and maintaining instructional equipment.	\$40 per course
Engineering Equipment Access Fee	A fee assessed to students enrolled in Engineering courses to help defray the cost of providing and maintaining instructional equipment.	\$40 per course
Installment Late	A fee assessed to all students who have not paid their installment payments by the due date. The fee is used to help defray the cost associated with record keeping and collections.	\$50 per occurrence
Transcript	A fee assessed to all current and former students desiring an official transcript. The first transcript is free.	\$5 per transcript
Vehicle Registration	A fee assessed to all students operating vehicles on campus to cover the cost of providing and maintaining parking facilities.	\$35 (fall/spring) \$15 (summer) per semester
Communications Equipment Access Fee	A fee assessed to students enrolled in Communications courses to help defray the cost of providing and maintaining instructional equipment.	\$10 per course
New Student Orientation	A fee assessed to students enrolled in the New Student Orientation program.	\$60 per student
Remediation	A fee assessed to students enrolled in non-course based remediation to help defray the cost of administering the remediation program.	\$50 (fall/spring) \$25 (summer) per course
Library Fines	Students who return late or lose library books will be subject to library fines.	Over-due books: \$0.25 per day Reserved Materials: \$0.02 per day minimum \$50.00 maximum Lost Book: Replacement Cost + \$15

* Fee rates are subject to change. The most current fee rates will be published in the Course Schedule for each semester.

** Fee waived for students who take only distance learning courses and who do not reside on campus.

Tuition and Fee Exemptions

Tuition and fee exemptions are provided by the University to students who fall within one of the following categories and meet the criteria established by the State of Texas:

- 1) Highest Ranking High School Graduate (Texas Education Code §54.201)
- 2) Children of Texas veterans (Texas Education Code §54.203)
- 3) Veterans of Texas (Texas Education Code §54.203)
- 4) Children of Disabled Firemen and Peace Officers (Texas Education Code §54.204)
- 5) Disabled Peace Officers (Texas Education Code §54.2041)
- 6) Blind and Deaf Students (Texas Education Code §54.205)
- 7) Students from Other Nations of the American Hemisphere (Texas Education Code §54.207)
- 8) Children of Prisoners of War or Persons Missing in Action (Texas Education Code §54.209)
- 9) Students in Foster or Other Residential Care (Texas Education Code §54.211)
- 10) Aid to Families with Dependent Children (Texas Education Code §54.212)
- 11) Educational Aides (Texas Education Code §54.214)
- 12) Texas National Guard/ROTC Students (Texas Education Code §54.22155)
- 13) Students Enrolled in Fully Funded Courses (Texas Education Code §54.217)
- 14) Prisoners of War (Texas Education Code §54.219)

Students desiring more information about tuition and fee exemptions should contact the Admissions Office.

Tuition Waivers

Tuition waivers are provided by the University to students who fall within one of the following categories and meet the criteria established by the State of Texas:

- 1) Military Personnel and Dependents
- 2) Teaching or Research Assistant
- 3) Scholarship Student

Students desiring more information about tuition waivers should contact the Admissions Office at (936) 857-2626.

Academic Common Market Non-Resident Fee Waiver

The Master of Science Degree in Juvenile Justice, Master of Science in Juvenile Forensic Psychology Degree Program, and Doctor of Philosophy Degree Program in Juvenile Justice were entered into the Southern Regional Education Board's Academic Common Market on January 1, 2001. Graduate students who are not residents of Texas, but who are residents of one of the following southern states, may pay in-state tuition as long as they remain in good standing in the degree programs noted above: Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, Oklahoma, South Carolina, Tennessee, Virginia, West Virginia, and Florida. At Prairie View A&M University, the vice president for finance and administration should be contacted at (936) 857-2952 about eligibility for the fee waiver.

Texas residents, who wish to pursue graduate study in a field not offered by a public university in Texas, may benefit from this Academic Common Market Program. For additional information about programs that are available, contact the Texas Higher Education Coordinating Board's Office of the Academic Common Market, P.O. Box 12788, Austin, TX 78711, (512) 427-6101.

Admissions Information and Requirements

The Graduate School

ADMINISTRATIVE OFFICERS

Dr. William H. Parker, B.S., M.S., Ed.D.
Dean, Graduate School

Dr. Waymon Webster, B.A., M.A., Ph.D.
Associate Dean, Graduate School

Dr. Michael McFrazier, B.M.E., M.M., M. S., Ed.D.
Director of Graduate Programs, Graduate School

Elizabeth Noel, B.S., M.Ed., Ph.D.
Dean, College of Agriculture and Human Sciences

Ikhlal Sabouni, B.A., M.A. Ph.D.
Dean, School Architecture

Gerard Rambally, Ph.D.
Dean, College of Arts and Sciences

Munir Quddus, B.S., M.A., Ph.D.
Dean, College of Business

M. Paul Mehta, B.A., M.A., M.A.T., Ed.D.
Dean, College of Education

Milton Bryant, B.S., M.Engr., Ph.D.
Dean, College of Engineering

H. Elaine Rodney, M.A. Ph.D.
Dean, College of Juvenile Justice and Psychology

Betty Adams, B.S.N., M.S.N., Ph.D.
Dean, College of Nursing

The Graduate School is a graduate student's primary source of information about study for an advanced degree. The administrative and support staff assist students through the dissemination of information about the graduate programs offered by the University. The office processes applications for admission, recommendations for candidacy, and applications for graduation. It coordinates the work of faculty and administrative officers in serving graduate students. General inquiries about graduate study at this University should be directed to the Graduate School. Specific questions regarding a major program should be directed to the school or college offering the program.

Opportunities for advanced study are provided to qualified students seeking graduate education and/or degrees. Programs are offered under the joint supervision of the Graduate School and schools and colleges with masters or doctoral level or certification or degree programs. Graduate students are held fully responsible for ascertaining and following the procedures and regulations applicable to their graduate programs of study. Programs, regulations, and course offerings listed herein are subject to modification and/or deletion at any time by action of appropriate University authorities.

Schools and Colleges with Graduate Programs

College of Agriculture and Human Sciences
School of Architecture
College of Arts and Sciences
College of Business
College of Education
College of Engineering
College of Nursing
College of Juvenile Justice and Psychology

Graduate programs leading to the Master of Arts degree, the Master of Science degree, the Master of Business Administration degree, the Master of Education Degree, Professional Certification, Certificate Endorsements and the Doctor of Philosophy (Juvenile Justice, Electrical Engineering and Educational Leadership) Degree are offered.

Prairie View A&M University offers all of its graduate degree programs on the main campus at Prairie View. However, it offers selected degree programs in education, business, engineering and nursing at distance sites primarily in the Houston area. Off-campus sites are currently located in Spring, Texas at the Prairie View A&M University Northwest Graduate Center, the campus of the College of Nursing in downtown Houston, and at The University Center in The Woodlands, Texas.

A completed application for admission is required and must be submitted to the Graduate School by July 1 for the Fall Semester, November 1 for the Spring Semester and March 1 for the Summer Term for domestic students. International Students must submit completed applications by June 1 for Fall Semester, and October 1 for Spring Semester. All prospective students must also include Graduate Record Examination (GRE) scores or the Graduate Management Admissions Test (GMAT) - College of Business, three letters of recommendation, and official transcripts from accredited colleges or universities attended.

Even though the applicant may meet the general requirements for admission, the student must meet the admission requirements of specific programs. Admission into a department/program is not guaranteed until the applicant receives official notification by the department/program in which the degree is desired. The student may not enroll in any graduate courses until this official notification is received. Failure to adhere to this policy will nullify any graduate level coursework undertaken by the student. The admission process consists of the following:

1. Submission of a completed application for admission to the Graduate School and payment of a \$50 non-refundable fee.
2. A bachelor's degree from an accredited college or university or, for doctoral study, a master's degree from an accredited college or university.
3. An official transcript of all college work (undergraduate and graduate) from the registrar of each college previously attended.
4. A minimum undergraduate cumulative Grade Point Average of 2.75 on a 4.00 grading scale for regular graduate degree status.
5. Less than 2.75 but a minimum of a 2.45 Grade Point Average on a 4.00 grading scale for provisional graduate student status. Departments may use the last 60 semester hours of undergraduate credit for admitting students in this category.
6. Three letters of recommendation from persons in the field of the applicant's academic major or area of concentration.
7. Official scores on the Graduate Record Examination (GRE) or the Graduate Management Admissions Test (GMAT)-College of Business. GRE Scores may not be more than 10 years old at the time of enrollment.
8. Recommendation for admission by the department head and dean of the school or college offering the graduate program to which the student is seeking admission.
9. Formal acceptance for graduate study and notification from the Office of Graduate Admissions.

Types of Admission

Graduate Degree Status

A student admitted as a regular graduate student is a degree status student.

Provisional Graduate Status

A student admitted to this category may enroll in a maximum of 12 semester credit hours of graduate courses. In order to continue, the student must have achieved a grade point average of 3.0 and be recommended by the department and college for graduate degree status or non-degree status.

Non-Degree (Transient) Status

A student who has a bachelor's degree (minimum GPA of 2.45) and who wishes to take graduate courses without qualifying for a degree can be admitted as a Non-Degree (Transient) Student. Students must meet all course prerequisites in order to be admitted to advanced courses. Elevation to degree status must be recommended by the appropriate school or college dean and approved by the Coordinator of Graduate Programs.

Special Student Status

1. Students who wish to take graduate courses but who do not meet the minimum GPA for admission as degree, provisional or non-degree status are considered special students. These students must have been highly recommended based upon evidence of scholarly potential. Students in this category may enroll in no more than 12 graduate semester credits covering a maximum of two consecutive terms. A student in this category may be admitted to degree status if a GPA of 3.0 is maintained during this period and if the student is recommended by the department head and dean of the school or college.
2. Students who are removed from degree status because of a low GPA may become special students. Students in this category may petition for re-admission to degree status after earning a 3.0 GPA. A petition will be allowed only once within a period of two years (24 months).
3. Students whose academic records are not received before the deadline period relating to the time in which the student wishes to be admitted are designated as special students. If a student's records are received within a period of eight weeks after enrollment in courses, his/her record will be evaluated. The student will then be notified of his or her admission status. If the student's records are not received prior to the end of the grading period, no credit will be awarded for the course(s) taken.

International Student Information

International students applying to Prairie View A&M University for admission are required to meet all University and United States Immigration requirements. All International students must submit the following in addition to the above listed items:

- 1) Evidence of ability to finance education - Affidavit of support - certification of ability to finance study while at PVAMU must be filed.
- 2) Evidence of ability to speak, write, and comprehend written and oral English language. All students must present a score of 550 on the Test of English as a Foreign Language (TOEFL) administered by the Educational Testing Service in Princeton, NJ as a part of the application process for admission to the University. The student who graduated from a secondary education institution in the United States or who earned a score of 18 on the English Section of the ACT or a 400 on the Verbal component of the SAT is exempt from the TOEFL.
- 3) Confirmation of Immigration Status. International students seeking I-20AB (Certification of Eligibility for Nonimmigrant [F-1] Student Status) must secure certification forms in person. If the form is not picked up in person, it will be forwarded by U.S. mail only.

- 4) Evaluation of foreign transcripts. An applicant must submit official transcripts for all high school and college work completed up to the time of expected enrollment. An evaluation of all foreign college transcripts must be completed by any state approved foreign transcript evaluator. (An approved list may be obtained from the Office of Graduate Admissions).

Upon arrival at the University, all international students must first report to the International Student Affairs Officer, W.R. Banks, Room 123, and present all immigration documents for inspection and recordation. All immunization records are to be presented by the student directly to the Owens-Franklin Health Center.

Application Deadlines

To apply for admission, all international students must submit admission credentials by June 1 for the fall semester, October 1 for the spring semester. A student whose admission credentials are received after a stated deadline date should contact the Office of Admissions and Records and request admission for the next enrollment period. A student who fails to enroll in the allotted semester must request and receive an update of admission before attempting to enroll. Applications should be submitted to:

Office of the Graduate Admissions
Prairie View A&M University
P. O. Box 2355
Prairie View, Texas 77446-2355

Re-admission

A student or applicant who falls into one of the following categories must reapply for admission to the Graduate School:

1. An applicant who has previously been admitted to the University but did not enroll in the term stated in the acceptance letter.
2. A graduate student at Prairie View A&M University who was accepted into one degree program and wishes to enter another degree program.
3. Degree candidates and non-degree students who have not enrolled in courses for two consecutive years.

Graduate Work by Seniors

A University senior who is within six semester hours of completing the requirements for an undergraduate degree may, upon being recommended by the department head and the dean of the school or college, register for up to six semester hours of graduate courses while completing undergraduate degree requirements. The combined load of the graduate and the undergraduate courses must not exceed 15 semester hours. Courses used to meet undergraduate requirements may not be used to meet graduate requirements.

Second Master's Degree

Persons holding a previously earned master's degree from Prairie View A&M University may pursue an additional master's degree at Prairie View A&M University only with the specific approval of the Dean of Graduate School. Such approval will be given only when the following conditions are judged to have been met:

1. The proposed second master's degree must be in a different major field of study than the previous degree;
2. Courses counted toward a previously earned master's degree may not be applied to the second master's degree unless they constitute specific course requirements for the major concentration in the second master's degree program. In such cases, not more than 12 semester hours of such courses may be counted toward the second degree. (Not more than 6 semester hours may be transferred from another institution).

Cancellation of Admission

Admission will be canceled automatically if an applicant is accepted by the University for a given semester and does not register for that semester. If the applicant wishes to undertake work at the University at a later date, he/she must file a new application, pay a new application fee, and meet the current requirements for admission. Materials supporting the application for admission, such as transcripts and test scores are retained by the Office of Graduate Admissions for one year and may be used during this time to support the requirements associated with a new application.

Admission from Non-Accredited or Non-Equivalent Institutions

A student who is a graduate of a non-accredited institution or an institution whose degree is not considered equivalent to a baccalaureate degree or a master's degree at Prairie View A&M University may not be admitted directly to post-baccalaureate or doctoral status. Instead, he/she may be considered for admission as an undergraduate student or master's candidate. Upon completion of the baccalaureate or master's degree, the student may then apply and be considered for admission to the desired degree program.

Academic Information and Regulations

General Academic Information

Courses and Credits

Transfer of Credit

Graduate credit earned at another accredited institution, not exceeding six (6) semester hours, may be transferred and applied toward the master's or the doctorate degree at Prairie View A&M University. Only courses with a grade of "B" or better may be transferred. An "A" grade from another institution or earned in extension may not be used to validate a grade of "C" earned at Prairie View A&M University. An official transcript denoting the transfer course(s), year, and grade received must be on file in the Office of the Registrar before acceptance of transfer credit is official.

This institution will not consider credits from other institutions to meet requirements for a graduate degree unless the institution offering the courses will allow these credits to be applied toward the requirements of an advanced degree on its own campus. Under no circumstances will transfer course work be considered that will be more than six (6) years old at the time the degree is awarded.

Grading System

Course work for graduate students is reported as: "A" (95-100); "B" (85-94); "C" (75-84); "D" (65-74); "P" (Passing); "I" (Incomplete); "IP" (Incomplete Passing); "W" (Withdrawn).

Grade Reports

Final grade reports are mailed to the student's home address once in each fall and spring semester, and once during the summer. Mid-term grades are issued to students. Midterm grades are progress reports and are not recorded on the student's permanent record. Final grades are issued and recorded on the student's permanent record at the close of each semester and summer term. If an error in the recording of grades is suspected, the student should report this immediately to the instructor, department head, or college dean for verification or correction.

Correction or Change of Grade

Any change or correction of a grade recorded for a student must be made within the semester or term immediately following the term for which the grade was recorded.

Grade Point Average

The grade point average (GPA) is determined by adding all grade points earned during a grading period and dividing that total by the total credit hours attempted during the period. Withdrawal without record (W), incomplete (I), and incomplete passing (IP) will not be included among grades used to compute grade point averages. If a course is repeated, the official grade is the last grade earned at Prairie View A&M University. Transfer courses are not used in GPA calculations at Prairie View A&M University.

Incomplete "I" Grade

The grade of "I", incomplete, is assigned to students who are unable to complete a course due to circumstances beyond their control. For lecture, seminar, independent study, and similar organized instruction courses, the student must complete the work necessary to remove the grade of "I" in one calendar year from the semester in which the "I" was awarded. All grades of "I" in courses that are included in the requirements for a degree must be replaced with a grade acceptable in the program. Students are not to re-enroll in a course for which a grade of "I" has been recorded.

In Progress "IP" Grade

An "IP", in progress, is assigned to thesis, dissertation, internship, project, and practicum provided the student remains enrolled and makes satisfactory progress as certified by the committee chair, dean and director/coordinator of graduate program. The time allocated for removal of the "IP" shall be the same as the maximum time for completion of a degree or certificate.

Procedure for Requesting "I" or "IP" as a Final Grade

1. Instructor determines if the student meets the criteria for an "I" Incomplete or "IP" In Progress final grade [refer to current university catalog].
2. Instructor prepares the Request for "I" or "IP" as a Final Grade (RIFG) form, signs it and submits it to the Department Head.

Instructor posts "JJJ" in the grade field on SIS+ screen 115 for applicable student when posting grades.

3. Department Head reviews the RIFG and either approves by signing and forwarding to the Dean or disapproves by returning it to the instructor. If disapproved, an official grade must be submitted to the Registrar on the "Submission of Missing Grade" form.
4. Dean reviews the RIFG and either approves by signing and forwarding, via Administrative Assistant/Secretary, to the Office of the Registrar for recording or disapproves by returning it to the Department Head. If disapproved, an official grade must be submitted to the Registrar on the "Submission of Missing Grade" form.

Note: All Dean approved Requests for "I" or "IP" as a Final Grade forms and Submission of Missing Grade forms must be in the Office of the Registrar by COB on the last day to post final grades. Only original forms submitted by the Dean, Dean's Administrative Assistant/Secretary are accepted. Copies, faxes, student submitted forms, **WILL NOT BE ACCEPTED.**

Course Load

The following limitations on course load are in effect:

1. During a regular session, a graduate student may not enroll in more than 15 hours.
2. During a five- or six-week summer session, a graduate student may not enroll in more than six semester hours, except when one course is a four-hour course, in which case the student may enroll in seven hours. The total credit hours earned for the two summer sessions may not exceed fourteen.
3. A graduate student may not enroll in more than three semester credit hours during a three-week summer session.
4. A graduate student enrolled in a three-week session may not enroll in more than one three-hour course in the six week session being conducted concurrently.
5. This university defines full time enrollment for a graduate student as a minimum of 9 semester credit hours during the regular terms and a minimum of 4 semester credit hours during each summer term.

Scheduling of Courses

In case a section is dropped because of insufficient enrollment, a student may add other courses approved by his/her advisor.

Independent Study Courses

Independent study courses are permitted on a highly selective need basis. Any student enrolling in an independent study course must have the prior approval of the supervising faculty member, the Department Head in which the course is to be taken, Dean of the College and the Provost and Vice President for Academic Affairs. No more than 6 such credit hours may be counted toward a degree.

Course Auditing

When space is available and the consent of the Dean of the College and the instructor is given, any person may audit a course by paying the regular tuition and fees. Students sixty-five years of age or older may audit a course by registering with the Registrar's Office but without the payment of fees.

Credit is not given for any audit course. Students wishing to audit may register only after late registration. Currently enrolled students shall have first priority for auditing space. A student who audits a course may not change registration during the semester to take the course for credit.

Ordering Transcripts

A transcript is the record of an individual's course work at the University. All requests for transcripts must be in writing and the requester's signature must appear on the request letter, as well as on the Transcript Request Form. The first transcript issued is free. Subsequent transcripts are \$5.00 each and the University must be paid prior to the release of the transcript. Transcripts will be ready for pick-up or will be mailed within 3-5 weekdays from the date the request was received, except during peak periods when the transcript will be ready for pick-up or will be mailed within 10 weekdays.

Completed Transcript Request Form's, letters of requests, and any checks or money orders accompanying request should be sent to the following address:

Office of the Registrar
Prairie View A&M University
P.O. Box 3089
Prairie View, TX 77446

Without the written consent of the student the University will not release a transcript except when directed by a court ordered subpoena.

Academic Advising, Registration, and Degree Plans

Graduate students are assigned to one or more faculty advisors during the first semester in which they are enrolled at the university. New students are required to meet with an advisor before enrolling in classes for the purpose of planning and obtaining approval of plans of study. Continuing students should confer with their faculty advisor at least once per semester to discuss objectives, course selection and sequencing, and other degree/program related matters. Consultation on all academic concerns should begin with the major advisor.

Class Schedule

An official class schedule, prepared each semester by the University, includes the registration schedule, procedures for registration, fees, classes offered by hours and instructors, and other pertinent registration information. The schedule is available several weeks in advance of registration each semester and may be obtained from the Office of the University Registrar.

Tentative Degree Plans

The student should file a degree plan within the first semester of matriculation in the university. Degree plan forms may be obtained from the major advisor. The major advisor, department head, dean of the college and graduate dean review and approve the degree plan.

Concurrent Study for Two Different Degrees

A student pursuing a graduate degree program at Prairie View A&M University may not simultaneously enroll and complete course work for the purpose of meeting requirements for any other degree offered by this institution unless the student is pursuing a specifically designed and approved dual degree program. Each degree must be completed in its entirety before work may be taken for the purpose of meeting requirements for a new degree. Any questions regarding this policy should be directed to the Dean of the Graduate School.

Grading/Class Related Appeals

Generally, student complaints about grades or other class related performance assessments can be addressed by the instructor of record and the student. When that cannot be achieved, the student may have his/her complaint addressed by the procedure outlined below. Faculty, other classroom professionals, and students' rights are to be protected and their human dignity respected. Grading and other class related complaints are to be filed initially within thirty days following the alleged precipitating action on which the complaint is based. Except where extenuating circumstances render it unreasonable, the outcome of a complaint that reaches the level of department/division head (exception Dean of Architecture and of Nursing) will be reviewed within thirty days and a written notification of outcome will be provided to the student. Where a complaint must be reviewed at each level, the entire process should be completed within ninety days of receipt of the complaint.

In those instances where students believe that miscommunication, errors, or unfairness of any kind may have adversely affected the instructor's assessment of their academic performance, the student has a right to appeal by following the procedure listed and by doing so within thirty days of receiving the grade or experiencing any other problematic academic event that prompted the complaint:

1. The student should meet with the instructor of record, preferably during his/her office hours, to present the grievance and any supporting documentation that the grade or outcome of a class related concern should have been different.
2. If the instructor is no longer at the university or if the subject of the grievance arises when faculty are not expected to be on duty for a week or more, the student should report to his or her advisor or the absent faculty member's immediate supervisor (department head, division head, or dean if in School of Architecture or College of Nursing).
3. If the issue is not resolved at the faculty level and the student wishes to pursue the issue beyond the instructor, he/she should meet with his/her academic advisor even if the grade or other issue is not in the department, division, school, or college in which the student's class is being offered. The advisor will intervene appropriately, but if unable to negotiate an agreement between the student and his/her instructor, will direct the student to follow each level of the appeals procedures items 4 through 10 below.
4. If no agreement can be reached following discussion among the advisor, the student, and the instructor, the student should write a letter, or complete a published form used for this purpose and submit it to the instructor's immediate supervisor. In the School of Architecture; or School of Nursing the Dean; in all other colleges the immediate supervisor of faculty, teaching assistants, laboratory assistants and other classroom professionals is the department or division head. The letter or form should present the grievance, the rationale for it, and the remedy sought. The letter or form should be sent at least one week prior to the student's scheduled appointment to meet with the instructor's immediate supervisor.
5. If the instructor's immediate supervisor cannot resolve the issue to the student's satisfaction and the student wishes to pursue the matter, the instructor's immediate supervisor will refer the matter to a three to five person faculty appeals panel, one of whom must be a part-time faculty person if part-time faculty are employed in the department, school or college. The panel will review the grievance and make a recommendation to the instructor's immediate supervisor.
6. If no agreement is reached and the student decides to appeal the matter further, he/she should send a letter or any published form used for this purpose to the person above the instructor's immediate supervisor.
7. If the student believes that the decision of the highest official in the College or School, the dean, deserves further review due to flaws in the previous reviews or due to his/her having information of such nature as to potentially impact the outcome, the student should provide a written request for review to the Provost and Vice President for Academic Affairs who will employ a review process appropriate to the situation and notify the dean of the outcome. The dean will notify the student of the outcome. A decision that has reached review by the Admissions and Academic Standards Committee is final.

8. Grading and other class related academic issues are referred in writing to the Office of the President only in instances where a preponderance of the evidence reveals that a student's Constitutional rights or human dignity may have been violated. The Provost and Vice President for Academic Affairs will transmit to the President the entire record of reviews conducted at each level if requested by the President following his/her receipt of the student's written appeal. The President will employ a review process appropriate to the matter presented and notify the Provost and Vice President for Academic Affairs and dean of the outcome. The dean will notify the student of the outcome.
9. If the class related complaint is related to issues including but not limited to sexual harassment, violence, drug use, possession of firearms, or other behaviors prohibited by federal law, state law, Texas A&M University System policy or University regulations, the student may select one of the following options:

Option A: Report the incident, in writing, to the instructor's or other classroom professional's immediate supervisor (department head, division head, or dean).

Option B: Report the incident, in writing, to the Director of Human Resources in Room 122 W.R. Banks Building or to the Provost and Vice President for Academic Affairs in Room 214 A.I. Thomas Building.

10. If the class related complaint involves another student(s) and is related to issues including, but not limited to sexual harassment, violence, drug use, possession of firearms, or other behaviors prohibited by federal law, state law, Texas A&M University System policy or University regulations, the student should report the incident to the Office of the Vice President for Student and Enrollment Services.

Course Changes and Withdrawals

Course changes and withdrawals are accepted only as designated in the academic calendar. All such changes in registration require the approval of the student's advisor and/or dean. No change in registration is complete until filed with the Office of the Registrar for recording. A student who wishes to withdraw from a course other than an undergraduate pre-college developmental course (reading, writing, mathematics, study skills) but whose advisor, department head, or dean will not approve may appeal to the Provost and Vice President for Academic Affairs.

Voluntary Withdrawal From a Course

1. A student may withdraw from a course before the Change of Program Period ends without having the course recorded on his/her permanent record.
2. Withdrawal from a course will be allowed until two weeks after mid-term examinations period during the fall and spring semesters, and one week before the date of the final examination during a summer term. No Withdrawal from a course will be allowed after that point. Withdrawals must be approved by the advisor/department head/dean.
3. Upon official notification that a student has withdrawn, a grade of "W" will be assigned. The "W" will not be calculated in the GPA.
4. Withdrawals from courses may affect housing, graduation, financial aid, membership in organizations or other opportunities.

Voluntary Withdrawal from the University

Students seeking to withdraw from the University may seek advice and counsel from several sources: Registrar, Course Instructors, Department Head, or Dean. Whatever the initial contact, the student will be referred to a Transition Coordinator in the Division of Student and Enrollment Services, Evans Hall, Room 307. The Transition Coordinator is the official starting point for the withdrawal process.

A student may be required to meet with a transition coordinator who will assess the student's rationale for withdrawal, and will, through referral, coordination, counseling, or other University resources, assist the student with remaining enrolled if possible.

A student who officially withdraws after the Change of Program period will receive a grade of "WV" for all courses affected by the withdrawal.

Withdrawal of Students Ordered to Military Active Duty

A student called to active duty after November 15, 1990, should be given a grade of "MW" in each of his or her academic courses. The student should provide a copy of the military order to the academic dean. The Dean will ensure that the Registrar has a copy of this order to keep in the permanent file and that grades of "MW" are recorded for courses in which the student is enrolled. The instructor for each course will prepare the necessary documentation for removing the "MW" grade and forward the information to the department head for storage in the student's record in the college, or school. In addition, a copy of the documentation will be forwarded to the Registrar for storage in the student's permanent file. The time limit for the removal of a grade of "MW" for a student called to active military duty after November 15, 1990, shall be one calendar year from the official date of release from military active duty. Failure to enroll as a student during the one calendar year following release from military active duty will result in the grade of "MW" remaining permanently on the academic record. The student will be required to register for and repeat the course.

Administrative Withdrawal

To be administratively withdrawn from the University is to be dismissed from the University. A student may be dismissed from the university for failure to make satisfactory academic progress, failure to pay legitimate debts on schedule or for inappropriate behavior that is detrimental to good order. Administrative withdrawal does not relieve the student of the responsibility for all debts, including tuition, fees, room and board, and other incidental charges for the full semester. Administrative withdrawal due to failure to meet financial obligations will result in the following:

- Transcripts being withheld
- Room and board privileges being lost
- Classroom admittance being denied

A student who has been dismissed for financial reasons can have privileges restored upon payment of all outstanding charges and a reinstatement fee.

Academic Progress Standards**General Standards**

In order to show satisfactory progress toward an advanced degree, a student must maintain an average grade of "B". A course in which a grade below "C" was earned cannot be counted toward graduation requirements. A student who, in any two consecutive semesters or summer terms, has a cumulative grade point average below 3.00 is subject to academic dismissal. The work of a graduate student performed in connection with the thesis is reported as a regular grade.

Doctoral Program Standards

Ph.D. students remain in good standing when they maintain a minimum graduate GPA of 3.0 for coursework. Only grades of "B" or better count toward required coursework (i.e., all but the elective courses) and dissertation hours. Any grade lower than "B" in a required area course will necessitate that the course be retaken and passed with a grade of "B" or higher. While one grade of "C" in an elective course may be counted toward the Ph.D., only grades of "B" or better indicate satisfactory completion of courses required for the Ph.D. If a student receives a "C" for a class grade, there will be an automatic review of that student's progress within one semester of when the grade is received. The Doctoral Committee will meet with the student to develop an appropriate response. If a second such grade is earned, the student will be dismissed from the program, but may petition the Doctoral Committee for readmission. After reviewing the petition, the committee may allow readmission under such conditions as it deems appropriate. A third grade lower than "B" will result in permanent dismissal from the program with no recourse to petition.

In the Spring semester of each academic year, a formal evaluation will be made of the progress of each doctoral student by the Doctoral Committee. This evaluation will focus on the student's progress toward the Ph.D. degree. Students, attending full time and taking 12 units each semester, should be able to complete formal doctoral coursework within two full years. However, this constitutes a heavy course load and student progress in the program will be measured against the more reasonable average of 9-12 credit hours per a semester. Where needed, the Committee will provide recommendations and guidance to students. The Graduate Program Coordinator will provide evaluation forms the Committee is currently using. Committee decisions related to student progress will be one of the following:

1. Progress is satisfactory, student is encouraged to continue in the program;
2. Progress is potentially unsatisfactory, remediation work is suggested, student is encouraged to continue in the program, or
3. Progress is unsatisfactory, student should be terminated from the program.

Students receiving an unsatisfactory evaluation may petition the Dean to remain in the program. A copy of the petition form may be obtained in the Doctoral Program office. One petition is allowed.

Class Attendance Policy

Prairie View A&M University requires regular class attendance. Attending all classes supports full academic development of each learner whether classes are taught with the instructor physically present or via distance learning technologies such as interactive video. Excessive absenteeism, whether excused or unexcused, may result in a student's course grade being reduced or in assignment of a grade of "F". Absences are accumulated beginning with the first day of class during regular semesters and summer terms. Each faculty member will include the University's attendance policy in each course syllabus.

Excused Absences

Absences due to illness, attendance at university approved activities, and family or other emergencies constitute excused absences and must be supported by documentation presented to the instructor prior to or immediately upon the student's return to class. Students are always responsible for all oral and written examinations as well as all assignments (e.g., projects, papers, reports).

Excessive Absences

Accumulation of one week of unexcused absences (for the number of clock hours equivalent to the credit for the course) constitutes excessive absenteeism. The instructor is not required to accept assignments as part of the course requirement when the student's absence is unexcused.

Absences on Religious Holy Days

In accordance with Texas Education Code, Section 51.925, subchapter (Z), a student may be absent from classes for the observance of a religious holy day and will be permitted to take missed examinations and complete missed assignments provided the student has notified the instructor of the planned absence in writing and receipt of the notice has been acknowledged by the instructor in writing. "A religious holy day means a holy day observed by a religion whose place of worship is exempt from property taxation under the Texas Tax Code, Section 11.20."

UNIVERSITY POLICY on ACADEMIC HONESTY

Course credit, degrees, and certificates are to be earned by students and may not be obtained through acts of dishonesty. Students are prohibited from participation in acts of academic dishonesty including tampering with records or falsifying admissions or other information. Disciplinary action will be taken against any student who alone or with others engages in any act of academic fraud or deceit. The university's policy on academic dishonesty is stated below:

It is the responsibility of students and faculty members to maintain academic integrity at the university by refusing to participate in or tolerate academic dishonesty. Each instance of academic dishonesty should be reported to the department in which the student has declared a major so that it can become a part of the student's file; to the department head of the instructor of the course in which the alleged infraction occurred; and to the Office for Academic Affairs as deemed necessary.

OFFENSES and DISCIPLINARY ACTIONS**Offences:**

- Acquiring Information
- Providing Information
- Plagiarism and Dual Submissions
- Conspiracy
- Fabrication of Information
- Misrepresentations, alterations of documents, forgery, et cetera

Disciplinary Actions:

- Grade Penalty
- Letter of Reprimand
- Probation
- Suspension
- Dismissal
- Expulsion

Below are definitions of sanctions that can be enforced for breaches of the University Academic Dishonesty Policy:

1. Probation - In addition to the penalty for the first offense, a student on academic conduct probation is subject to the following restrictions:

- a) Ineligibility to hold an office in any student organization recognized by the university or to hold any elected or appointed office of the university.
- b) Ineligibility to represent the university outside the university community in any way, including representing the university at any official functions, intercollegiate athletics, or any other form of intercollegiate competition or representation.
- c) Ineligibility to receive university-administered financial aid, such as scholarships.

2. Suspension - Separation of the student from the university for no less than one regular semester. The student is not guaranteed readmission at the end of such period of time, but is guaranteed a review of the case and the student's entire record by the student's dean.

3. Dismissal - Separation of the student from the university for an indefinite period of time. Readmission to the university may be possible at some time, but no specific time for a decision is established. The student is not automatically eligible for readmission.

4. Expulsion - Separation of the student from the university whereby the student is not eligible for readmission to the university.

Following the review, the dean's decision regarding eligibility for readmission will be communicated in writing to the student who has the right to appeal that decision to the University Academic Dishonesty Disciplinary Committee.

The standard of review to be used in all proceedings under this section shall be fundamental fairness. Strict rules of evidence and procedures are not required so long as the proceedings are conducted in such a manner as to allow both sides to fairly and fully explain the circumstances. Decisions regarding admissibility of evidence and the weight to be given to same shall be made by the party who is conducting the hearing.

OFFENSES and APPROPRIATE DISCIPLINARY ACTIONS

Commission of any of the following acts shall constitute academic dishonesty. This listing is not exclusive of any other acts that may reasonably be determined to constitute academic dishonesty. The penalty for an offense, whether first or later, will generally range from a letter of reprimand to expulsion, depending upon the severity of the offense. If an offense leads to course credit or the acquisition of a degree or certificate and it is revealed after following appropriate procedures that the offense was indeed committed, the university has the right to rescind course credit, degrees, and/or certificates awarded.

Offense: Acquiring information

- 1) Acquiring answers for an assigned work or examination from unauthorized source.
- 2) Working with another person or persons on an assignment or examination when not specifically permitted by the instructor.
- 3) Copying the work of other students during an examination.

Offense: Providing information

- 1) Providing answers for an assigned work or examination when not specifically authorized to do so.
- 2) Informing a person of the contents of an examination prior to the time the examination is given.

Offense: Plagiarism and Dual Submissions

- 1) Failing to credit sources used in a work or product in an attempt to pass off the work as one's own.
- 2) Attempting to receive credit for work performed by another, including papers obtained in whole or in part from individuals or other sources.
- 3) Attempting to receive credit in one or more classes for the same paper or project without written approval of instructors involved.

Offense: Conspiracy

Agreeing with one or more persons to commit an act of scholastic dishonesty.

Offense: Acquisition of examinations, answers to examinations or assignments.**Offense: Fabrication of Information**

- 1) The falsification of the results obtained from a research or laboratory experiment.
- 2) The written or oral presentation of results of research or laboratory experiments without the research or laboratory experiments having been performed.

Offense: Misrepresentations, alterations of documents and forgery

- 1) Taking an examination for another person or allowing someone to take an examination for you.
- 2) Signing an attendance sheet for another student or committing similar acts of impersonation.
- 3) The changing of admissions data, test results, transcripts, grade reports, or other documents.

PROCEDURES in ACADEMIC DISHONESTY CASES*

1. The instructor of record shall be the instructor of the course in which the claim of academic dishonesty is being made or the appropriate committee chair for a graduate student taking examinations required by the department or college.
 2. At the point of discovery, the instructor shall:
 - a) inform the student of the alleged academic dishonesty and explain the sanction(s);
 - b) hear the student's explanation of circumstances and judge the student to be guilty or not guilty of academic dishonesty;
 - c) if he/she judges him/her to be guilty, he/she will make a written report to the head of the department offering the course, with a copy to the student, the department head for the program in which the student has declared a major and the Office of Academic Affairs, outlining the incident and including a recommendation of disciplinary action(s) to be imposed; and
 - d) inform the student, in writing, of his/her right to appeal to the head of the department offering the course regarding either the question of guilt or the sanction(s) and explain the procedures the department head will follow if his/her decision is appealed to that level.
 3. The instructor's recommendation may be dismissed, reduced, upheld or increased by the department head. Prior to reaching a final decision regarding any sanction to be imposed, the department head shall check the student's record in the Office of Student and Enrollment Services and/or the department in which the student has a declared major to determine the appropriate disciplinary action for a person with his/her previous offenses.
- *NOTE: Where there is no department, responsibility assigned to department head will go to the dean of the college.
4. If the student chooses not to appeal and the department head concurs with the instructor's recommendation, the department head will implement the sanction. A copy of the report is forwarded to the dean of the college in which the alleged offense occurred and the dean of the college in which the student has declared a major.
 5. If the department head proposes to change the instructor's recommendation, the department head shall conduct a hearing. The student and the instructor shall be allowed to present witnesses and provide evidence relating to the charges. The recommendations resulting from this hearing shall be forwarded in writing to the dean of the college offering the course and to the student. The student may appeal to the dean.
 6. If the student chooses not to appeal the recommendation of the department head, the dean of the college offering the course will implement the sanction.
 7. Should the student appeal to the dean, an appeal at this level may be based on written summaries only. However, should the dean choose to hear witnesses or hold an informal hearing, it should be done within five working days of receipt of the recommendation from the department head. Within five working days of the hearing, if one is to be held, or five working days of receipt of the recommendation, if there is to be no hearing, the dean shall review the charges and render a written notification.
 8. A student who wishes to appeal the decision of the dean, in whole or in part, shall appeal to the University Academic Dishonesty Disciplinary Committee which will be appointed jointly by the Provost and Vice President for Academic Affairs and the Vice President for Student and Enrollment Services. The Committee is to be comprised of one-third faculty, one-third Student and Enrollment Services professional staff and one-third students.
 9. Once a charge of academic dishonesty has been finally resolved, notice of the same shall be provided in writing to the student, the instructor, the head of the department offering the course, the dean of the college offering the course, the head of the department in which the student has declared a major, the dean of the college in which the student has declared a major, the Office for Student and Enrollment Services, and the Office for Academic Affairs.
 10. Following a first offense, the student must be given a copy of the University Academic Dishonesty Policy by the department head of the college in which the offense occurred and the said policy should be discussed with the student.

Student Rights and Responsibilities in Academic Dishonesty Cases

Students have the right to accept the decision of the instructor for a particular offense. This does not preclude review of records for past offenses and imposition of penalty for accumulated violations. Students shall be afforded the following rights in the hearing conducted by the department head. The dean's appeal shall not be considered a hearing covered by these regulations:

1. Right to a written notice of the charges at least three working days before the hearing may proceed.
2. Right to waive the three-day notice of charges.
3. Right to reasonable access to the case file.
4. Right to review all evidence and question any witness against the student.
5. Right to present evidence and/or witnesses in his/her own behalf.
6. Right to have an observer present during the hearing. The observer cannot be a witness in the hearing or represent the student in the hearing.
7. Right to appeal the disciplinary recommendation to the dean of the college offering the course and, finally, to the University Academic Dishonesty Disciplinary Committee.

If student wishes to have an attorney present at a hearing before the department head or dean, the department head or dean will be afforded the same opportunity to have equal representation present.

If the student wishes to appeal a recommendation made by the instructor, department head or dean, he/she must provide written notice to the proper level within five working days of receiving notice of the recommendation. Only in unusual circumstances may this deadline be extended by the entity conducting the hearing.

Further Notes Related to Disciplinary Action in Academic Dishonesty Cases

Offenses punishable by probation, suspension, dismissal, expulsion or other penalties must be reported in writing to the University Academic Dishonesty Disciplinary Committee within three working days of the decision even if the student waives his/her right to an appeal.

Graduation Requirements**General Requirements**

The following requirements apply to all graduate degree programs. Specific degree requirements may be found in the appropriate college sections of this catalog. All candidates expecting to graduate must file an application for the degree. The deadline for filing an application for the degree is published each semester by the registrar. Upon completion of all requirements for the master's degree, candidates are certified for graduation by the dean of the Graduate School. Degrees are publicly conferred at each university commencement.

1. Consult the graduate major advisor in the proposed field of study and the Dean of the Graduate School.
2. Obtain from and file with the graduate school a change of major form signed by the graduate major advisor in the proposed field of study and the graduate advisor in the field from which the transfer request is made.

Graduate Thesis and Dissertation Committees

The dean, school/college graduate program coordinator, department head, and the University graduate program director are responsible for approving the assignment of faculty to graduate committees. Members of the departmental faculty chair thesis and dissertation committees. It should be noted on all documents, including thesis, when the graduate committee chair is not the thesis/research advisor.

Approval of Thesis, Dissertation or Project Report

The graduate thesis, dissertation or project report must be prepared in a style and format that is prescribed by the specific degree program. No later than two weeks prior to the last day of classes for the term or semester the student must submit a final draft of the thesis, dissertation or project report to the Graduate School for approval. If the manuscript meets the style and format criteria established by the faculty of a specific degree program, the student will be permitted to submit the document to the student's graduate advisory committee for approval and signature.

The bound copies of the signed thesis, dissertation or project report must be submitted to the Graduate School on or before the last day of classes for the Dean's approval and signature (the specific number of copies will be designated by the College or School). The Graduate School will be responsible for distributing the copies to the appropriate offices.

Oral Examination

An oral examination is required of thesis and dissertation students. The oral examination is designed to test verbal and explanatory abilities of students as they explain and defend their research. The examining body is the student's Graduate Thesis/Dissertation Committee and may include other interested departmental faculty. The graduate school may assign a member of the graduate council to attend or monitor an oral examination. The examination can be repeated only once.

Admission to Candidacy

The graduate student admitted to full degree status does not automatically become a candidate for the master's degree. To become a candidate, the student must complete the following minimum requirements:

1. Achieve a satisfactory score on the GRE or GMAT as stipulated by the department and college;
2. Prepare and submit an official Application For Candidacy Form showing the applicant's successful completion of 12 semester hours of required graduate courses with an average of "B" or better.
3. The application, when approved by the department head and college/school dean, must be submitted to the Graduate Dean for final approval.

Advancement to candidacy for doctoral programs is governed by the procedures of the program. Information for the specific program is found in this catalog under the degree description.

Registration Requirement

Students completing work required for a degree must be enrolled during the term in which the work is completed and the application for graduation is filed. A fee is required for registration in absentia.

Application for Graduation

Students should apply for graduation at the beginning of the semester or summer term in which they expect to complete all requirements for the degree. Application deadlines are included in the academic calendar for each year. Application forms may be obtained from the registrar. A fee is required as part of the application process.

Commencement and the Conferring of Degrees

Students may not graduate until completion of all degree requirements has been certified by the registrar. Formal conferring of degrees and awarding of diplomas take place at the earliest commencement exercise following graduation. Commencement exercises are scheduled in May, August and December of each year. Participating-students must wear appropriate academic attire. Graduating students who wish to receive their diplomas in absentia may do so by filing a request with the registrar at least one week prior to commencement.

The university has the right to rescind a previously granted degree if it becomes aware of information leading to the determination that the degree should never have been granted.

Master of Architecture and Master of Community Development

A minimum of 36 semester hours of course work is required for the Master of Architecture and Master of Community Development degrees. The objective is to prepare graduates for entry into their professions and/or to prepare students for further graduate study.

Master of Arts and Master of Science

A minimum of 30 semester hours exclusive of thesis, with an average grade of "B" or better in courses approved for graduate credit, is required for the Master of Arts and Master of Science degrees. Up to six semester hours of thesis credit may be counted toward a degree.

In addition to the thirty semester hours in graduate courses, all candidates for the degree Master of Science must present an acceptable thesis on a subject germane to the major course of study. The thesis must be written under the direction of a member of the graduate faculty in the program offering the degree. The thesis subject must be approved by the thesis committee chairman at least six months before the date of intended graduation. The thesis must have the approval of each member of the student's thesis committee and must be acceptable with respect to both scholarship and literary quality. One copy of the approved bound thesis must be filed in the Office of Graduate Programs.

After the thesis has been completed, the candidate is required to pass an oral examination which shall be a test of the candidate's knowledge of the study pursued. This examination is conducted by the student's thesis committee, of which the representative of the major field shall act as Chair. Any member of the graduate faculty may attend the examination as a visitor. A candidate who fails the oral examination must register for an additional semester or summer term before an opportunity will be given for a second examination, unless special permission for an earlier examination is approved by the school or college offering the program.

The Master of Arts degree is an applied science and arts degree. A thesis is optional. However, a creative product, approved by the school or college, may be presented as the option to the thesis requirement for the Master of Arts degree.

Master of Science in Computer Science and Master of Science in Computer Information Systems

The Master of Science in Computer Science and Master of Science in Computer Information Systems require 36 semester credit hours, and offer both thesis options (30 semester credit hours of coursework and 6 semester credit hours of a thesis) and non-thesis options (33 semester credit hours of coursework and 3 semester credit hours of a project).

Master of Education and Master of Business Administration

A minimum of 36 semester hours of course work, with an average grade of "B" or better in courses approved for graduate credit, is required for the Master of Education and Master of Business Administration degrees.

Master of Science in Engineering and Master of Science in Electrical Engineering

The Master of Science in Engineering (M.S.E.) and Master of Science in Electrical Engineering (M.S.E.E.), with thesis options, require 30 semester hours. The M.S.E. and M.S.E.E. with non-thesis options require 33 semester hours. Both options in both programs require 12 credit hours of graduate core courses in engineering and science plus a minimum of 12 hours in a chosen area of concentration.

Master of Science in Juvenile Justice

Two options are available for students: thesis or non-thesis. Students opting for the thesis curriculum must successfully complete 30 hours of coursework in addition to 6 hours of thesis. The non-thesis option requires the successful completion of 36 hours of coursework and passing a comprehensive examination.

Master of Science in Juvenile Forensic Psychology

The Master of Science in Juvenile Forensic Psychology Program requires the completion of 36 semester credit hours. Two options are available for students: thesis and externship. The thesis option is designed for students interested in research and a Ph.D. degree program. The externship option is designed for students who desire to work in the field of forensic psychology. Students enrolled on a full-time basis can complete the program in two years.

Master of Science in Nursing

The Master of Science in Nursing, Family Nurse Practitioner is a clinical program requiring 46 SCH for degree completion. The student must earn a "B" average in course work, complete the required clinical experience with grades of "B" or better and satisfactorily meet exit examination requirements.

Doctor of Philosophy in Juvenile Justice

The Ph.D. in Juvenile Justice requires a minimum of 49 semester hours of course work and 12 semester hours of dissertation. Following completion of course work, the student must pass a comprehensive examination prior to beginning the dissertation. A master's degree is necessary for admission to the doctoral program.

Doctor of Philosophy in Educational Leadership

The Ph.D. in Educational Leadership requires a minimum of 51 semester hours of course work and 12 semester hours of dissertation. Following completion of course work, the student must pass a comprehensive examination prior to beginning the dissertation. A master's degree is necessary for admission to the doctoral program.

Doctor of Philosophy in Electrical Engineering

The Ph.D. in Electrical Engineering requires a minimum of 41 semester hours of course work and 12 semester hours of dissertation. Following completion of 36 hours of course work, the student must pass a qualifying examination to advance to candidacy. A master's degree is necessary for admission to the doctoral program.

Academic Programs

College of Agriculture and Human Sciences

ADMINISTRATIVE OFFICER

Elizabeth N. Noel, *Dean*

ADMINISTRATIVE STAFF

Troy L. Daniels, *Coordinator, Human Sciences/Human Development and Family Studies*
 Sharon L. McWhinney, *Coordinator, Dietetics/Human Nutrition and Food*
 Alfred L. Parks, *Director, Cooperative Agricultural Research Center/Agriculture Economics*
 Freddie L. Richards, *Director, International Agribusiness Studies/Agriculture and Human Resources*
 Cecil L. Strickland, Sr., *Coordinator, Agriculture/Agriculture and Human Resources*
 Linda Williams-Willis, *Administrator, Cooperative Extension Program/Family and Consumer Sciences*

PURPOSE AND GOALS

The College of Agriculture and Human Sciences shall serve as the catalyst to reinforce the basic land-grant function upon which the University was founded by promoting the coordination of programmatic activities among teaching, extension and research. The primary mission of the College shall be to strengthen individuals and families in their interactive roles with social, economic and environmental systems.

The graduate programs emphasize the preparation of students for teaching, research and public service in colleges and universities, in social and public service agencies, or in managerial positions in business, industry or government. The curriculum offers opportunities for students to tailor the program to meet individual needs and prepares graduates to work with clientele in a professional capacity as agents of change. The specific goals of the program provide opportunities for increased professional competency development and the development of an academic and stylistic model for additional graduate study in a variety of academic specialties.

INSTRUCTIONAL ORGANIZATION

The College of Agriculture and Human Sciences offers the following graduate degree programs:

Programs	Degree Offered
Agriculture Concentrations	M.S., Agriculture
Agricultural Economics	
Animal Science	
Soil Science	
Human Sciences Concentrations	M.S., Human Sciences
Marriage and Family Studies	
Family and Consumer Studies	
Interdisciplinary Studies in Human Sciences	

Agriculture provides graduate support courses for the College of Education specializations in Agricultural Education. Graduate course work in Agriculture may also be applied to a masters' degree program in Human Sciences, and related disciplines. Students seeking this option should apply for admission to the respective Department and consult with an Advisor.

The Master of Science in Human Sciences includes degree concentrations in Marriage and Family Studies-preparation for licensure application in Marriage and Family Therapy and Interdisciplinary Studies in Family and Consumer Sciences.

Graduate courses may be utilized to support graduate majors in Counseling, Sociology, Agriculture, Vocational Home Economics Education, and related disciplines. Students seeking specialization in these areas should consult the Advisor in the major field of study for appropriate application of coursework.

ADMISSION REQUIREMENTS

Students desiring to major in graduate programs in the College of Agriculture and Human Sciences must:

1. Present undergraduate subject matter credits consistent with or closely aligned with the academic specialties offered from an accredited college of university.
2. Submit a biographical sketch and professional statement of intent for professional practice.
3. Meet all requirements as outlined by the graduate school for a degree status student or the minimum criteria for provisional graduate status. Provisional status must be removed within the first twelve months of initial enrollment.

Department of Agriculture, Nutrition and Human Ecology

ADMINISTRATIVE OFFICER

Elizabeth N. Noel, *Dean*

ADMINISTRATIVE STAFF

Troy L. Daniels, *Coordinator, Human Sciences*
 Sharon L. McWhinney, *Coordinator, Dietetic Internship Program*
 Alfred L. Parks, *Associate Dean and Research Director*
 Freddie L. Richards, *Director, Institute for International Agribusiness Studies*
 Cecil L. Strickland, Sr., *Coordinator, Agriculture*
 Linda Williams-Willis, *Extension Administrator*

FACULTY

Ronald S. Briggs, *Human Sciences*
 Barbara Dixon, *Dietetics*
 Richard W. Griffin, *Agriculture*
 Nathaniel Keys, *Agriculture*
 Dalton McWhinney, *Agriculture*
 Richard McWhorter, *Human Sciences*
 Bobby Mixon, *Agriculture*
 Alfred Poindexter, *Agriculture*
 Juanito C. Reyes, *Agriculture*
 Nathaniel Shelton, *Agriculture*
 Victor G. Stanley, *Agriculture*
 Cecil L. Strickland, Sr., *Agriculture*
 Lindsey Weatherspoon, *Agriculture*

PURPOSE AND GOALS

The College of Agriculture and Human Sciences shall serve as the catalyst to reinforce the basic land-grant function upon which the university was founded by promoting the coordination of programmatic activities among teaching, extension and research. The primary mission of the College shall be to strengthen the position of the university in matters relating to individuals and families and their interactive roles with social, economic and environmental systems.

The graduate programs emphasize the preparation of students for teaching, research and public service in colleges and universities, in social and public service agencies, or in managerial positions in business, industry or government. The curriculum offers opportunities for students to tailor the program to meet individual needs and prepares graduates to work with clientele in a professional capacity as agents of change. The specific goals of the program provide opportunities for increased professional competency development and the development of an academic and stylistic model for additional graduate study in a variety of academic specialties.

INSTRUCTIONAL ORGANIZATION

The College of Agriculture and Human Sciences offers the following graduate degree programs:

Programs	Degrees Offered
Agricultural Economics Animal Science Soil/Environmental Science	M.S., Agriculture
Human Sciences - Marriage and Family Studies - Interdisciplinary Studies in Family and Consumer Sciences	M.S., Human Sciences

ADMISSION TO PROGRAM

Students desiring to major in graduate programs in the College of Agriculture and Human Sciences must:

1. Present undergraduate subject matter credits consistent with or closely aligned with the academic specialties offered from an accredited college or university.
2. Submit a biographical sketch and professional statement of intent for professional practice.
3. Meet all requirements as outlined by the graduate school for a degree status student or the minimum criteria for provisional graduate status. Provisional status must be removed within the first twelve months of initial enrollment.

ADVANCEMENT TO CANDIDACY

A graduate student having been previously admitted to degree status must complete and submit an official application for Candidacy Form reflecting the satisfactory completion of twelve (12) semester hours of required graduate courses with an average of "B" or better.

MASTER OF SCIENCE IN AGRICULTURE DEGREE PROGRAMS

AGRICULTURAL ECONOMICS PROGRAM REQUIREMENTS

Common Core	9 SCH
AGHR 5353 Technological Change	
AGHR 5373 Seminar	
AGRO 5713 Introduction to Biostatistics	
Degree Concentration	18 SCH
AGEC 5213 Land Use and Resource Management	
AGEC 5223 Farm and Ranch Management	
AGEC 5233 Price Analysis	
AGEC 5243 Agricultural Policy	
AGEC 5253 Marketing of Farm Products	
AGEC 5283 Agricultural Finance	
Support Area Requirements	3 SCH
ECON 5013 Microeconomic Theory or ECON 5023 Macroeconomic Theory	

Research/Resource	6 SCH
Select from:	
AGRO 5783 Application of Biostatistics	3 SCH
AGEC 5263 Research Methods or HUSC 5343 Research Problems	3 SCH
AGHR 5303 Research or HUSC 5693 Thesis.....	3 SCH
Total Degree Requirements	36 SCH

ANIMAL SCIENCE PROGRAM REQUIREMENTS

Common Core	9 SCH
AGHR 5353 Technological Change	
AGHR 5373 Seminar	
AGRO 5713 Introduction to Biostatistics	
Degree Concentration	18 SCH
ANSC 5513 Physiology of Reproduction	
ANSC 5533 Non-Ruminant Nutrition	
ANSC 5543 Ruminant Nutrition	
ANSC 5553 Dairy Goat Production and Management	
ANSC 5563 Animal Health and Diseases	
ANSC 5573 Beef Cattle Production and Management	

Support Area Requirements	3 SCH
CHEM 5534 General Biochemistry or CHEM 5543 Intermediary Metabolism or CHEM 5563 Biochemical and Clinical Analysis	

Research/Resource	6 SCH
AGRO 5783 Application of Biostatistics	
AGEC 5263 Research Methods or HUSC 5343 Research Problems	
AGHR 5303 Research or HUSC 5693 Thesis	

Total Degree Requirements	36 SCH
--	--------

SOIL SCIENCE PROGRAM REQUIREMENTS

Common Core	9 SCH
AGHR 5353 Technological Change	
AGHR 5373 Seminar	
AGRO 5713 Introduction to Biostatistics	

Degree Concentration	18 SCH
Select from:	
AGRO 5613 Environmental Microbiology	3 SCH
AGRO 5653 Soil Chemistry.....	3 SCH
AGRO 5663 Principles of Environmental Science and Management.....	3 SCH
AGRO 5723 Soil-Plant Relationships	3 SCH
AGRO 5733 Agricultural Chemicals and Water Quality	3 SCH
AGRO 5743 Land Disposal of Wastes.....	3 SCH
AGRO 5753 Soils, Ecology and Land Uses.....	3 SCH
AGRO 5793 Problems and Issues in Environmental Science	3 SCH

Support Area Requirements	3 SCH
BIOL 5073 Environmental Toxicology	

Research/Resource	6 SCH
Select from:	
AGRO 5783 Application of Biostatistics	3 SCH
AGEC 5263 Research Methods or HUSC 5343 Research Problem.....	3 SCH
AGHR 5303 Research or HUSC 5693 Thesis.....	3 SCH
Total Degree Requirements	36 SCH

MASTER OF SCIENCE IN HUMAN SCIENCES DEGREE PROGRAM REQUIREMENTS

Core	12 SCH
HUSC 5313 Studies in Family Resource Management	
HUSC 5393 Family Communication	
HUSC 5543 Theories of Child Development	
HUSC 5553 Human Development	

Concentration	15 SCH
Select from:	
HUSC 5333 Introduction to Clinical Hypnosis.....	3 SCH
HUSC 5373 Analysis and Treatment of Sexual Dysfunction.....	3 SCH
HUSC 5383 Child and Adolescent Therapy.....	3 SCH
HUSC 5523 Marriage and Family Therapy	3 SCH
HUSC 5533 Family Theory and Issues.....	3 SCH
HUSC 5683 Family Ethics and Issues.....	3 SCH
HUSC 5723 Family Financial Counseling.....	3 SCH

Support Area Requirements.....3 SCH
 Support area course requirements may be selected from related course work in Agriculture, Counseling and Sociology or closely allied disciplines. Advisor pre-approval is required.

Research	3 SCH
HUSC 5343 Research Problems or AGECE 5263 Research Methods	

Resource	3-6 SCH
AGRO 5713 Introduction to Biostatistics, or HUSC 5693 Thesis, or AGRO 5783 Application of Biostatistics, or a student may take 6 semester credit hours of Post-Baccalaureate Field Placement. The field placement site must be pre-approved by the Advisor and all activities must be supervised by a graduate faculty member in the Program.	

Total Degree Requirements	36-39 SCH
--	------------------

POST-BACCALAUREATE PROGRAM IN DIETETICS REQUIREMENTS

Post-Baccalaureate Program in Dietetics is offered for individuals accepted for matriculation in the Dietetic Internship. The following courses are required as components of the program:

- HUSC 5326 Advanced Practice in Dietetics I
- HUSC 5336 Advanced Practice in Dietetics II
- HUSC 5353 Dietetic Seminar I
- HUSC 5363 Dietetic Seminar II

School of Architecture

ADMINISTRATIVE OFFICER

Ikhlas Sabouni, *Dean, Architecture*

ADMINISTRATIVE STAFF

- Marshall Brown, *Associate Dean*
- Matthew Carroll, *Coordinator, Construction Science*
- James Griffin, *Coordinator, Community Development*
- Barry Norwood, *Coordinator, Pre-professional Program-Architecture*
- Clarence Talley, *Coordinator, Art*
- Peter Wood, *Coordinator, Professional Program-Architecture*

FACULTY

- Caryl Abrahams, *Community Development*
- Rick Baldwin, *Community Development*
- Jonti Bolles, *Architecture*
- Bruce Bockhorn, *Architecture*
- Nicole Bradford, *Community Development*
- Jamie Crawley, *Architecture*
- Harold S. Dorsey, *Art*
- Richard Ferrier, *Architecture*
- Gail Hook, *Architecture*
- Brad McCorkle, *Architecture*
- Ben McMillan, *Architecture*
- Barry Norwood, *Architecture*
- Yunsik Song, *Architecture*
- Major Stewart, *CAD*
- Louis Williams, *History & Culture*

PURPOSE AND GOALS

The School of Architecture is dedicated to preparing students to play a leadership role in rebuilding America's cities and improving the quality of the built environment. By offering a diverse curriculum led by an accomplished faculty in a computer and studio intensive environment, the School of Architecture will educate significant practitioners and leaders in architecture, planning and construction.

INSTRUCTIONAL ORGANIZATION

The School of Architecture offers the following graduate degree programs:

Program	Degree Offered
<i>Architecture</i>	Master of Architecture
<i>Community Development</i>	Master of Community Development

MASTER OF ARCHITECTURE DEGREE PROGRAM

Students majoring in architecture will be challenged to develop their abilities in problem solving, creative thinking and informed decision making as a focus of their education. They will accomplish this in a well protected and student centered environment that fosters personal development and professional excellence.

The location of the School near the City of Houston offers an opportunity for students to enrich their learning experience through access to the greater architectural and construction community of the region and to many employment opportunities in the fields.

ADMISSION REQUIREMENTS

All students admitted to the Master of Architecture program must meet the admission requirements of the Graduate School of Prairie View A&M University. In addition, for students matriculating from a four-year, pre-professional program (for example, Program B of the PVAMU B.S. in Architecture degree) or entering the program with a bachelors degree in some field other than architecture, the School of Architecture will require submission of a design portfolio for review.

ACCREDITATION

The Master of Architecture degree is accredited by the National Architectural Accrediting Board (NAAB).

"In the United States, most registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit US professional degree programs in architecture, recognizes two types of degrees: the Bachelor of Architecture and the Master of Architecture. A program may be granted a five-year, three-year, or two-year term of accreditation, depending on its degree of conformance with established educational standards.

Masters degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree, which, when earned sequentially, comprise an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree." (NAAB, 1998)

DEGREE PROGRAM REQUIREMENTS

The degree requires a minimum of 36 semester credit hours. The core of the program consists of 30 credit hours of courses required of all students. A list of pre-approved courses is provided. From it the student may select the remaining six credit hours. Alternative courses may be selected from offerings of other degree programs on campus, with departmental approval.

Required graduate-level courses30 SCH
 ARCH 5506 Internship
 ARCH 5566 Architecture Design IX
 ARCH 5513 Research Seminar
 ARCH 5579 Comprehensive Project Studio
 ARCH 5593 Professional Practice

Elective courses6 SCH
 Select from:
 ARCH 5423 Urban Planning 3 SCH
 ARCH 5523 Historic Preservation and Adaptive Reuse 3 SCH
 ARCH 5973 Special Topics 3 SCH

Total Degree Requirements36 SCH

SUGGESTED DEGREE PROGRAM SEQUENCES

PROGRAM I: For students matriculating from Program A – the Professional Track of the Prairie View Architecture Program. This option will offer the coursework necessary to complete the accredited professional degree in architecture.

FIRST YEAR

		<i>Hours</i>	
<i>Summer</i>			
ARCH 5506	Internship	6	
<i>Total</i>		6	

<i>Fall Semester</i>		<i>Hours</i>	<i>Spring Semester</i>		<i>Hours</i>
ARCH 5556	Architecture Design IX	6	ARCH 5579	Comprehensive Project Studio	9
ARCH 5513	Research Seminar	3		ARCH Elective	3
ARCH 5593	Professional Practice	3		Elective	3
	Elective	3			
<i>Total</i>		15	<i>Total</i>		15

PROGRAM II: For students matriculating from a four-year, pre-professional program (for example the Program B option in the PVAMU B.S. in Architecture degree). This option will require between 36 and 72 semester credit hours of study depending on the extent and level of the preparation of the applicant.

FIRST YEAR

<i>Fall Semester</i>		<i>Hours</i>	<i>Spring Semester</i>		<i>Hours</i>
ARCH 4456	Architecture Design VII	3	ARCH 4476	Architecture Design VII	3
ARCH 4483	Structural Systems III	3	ARCH 3463	Environmental Systems II	3
ARCH 3453	Environmental Systems I	3		Graduate Elective	3
ARCH 4443	CAD Documents and Codes	3			
<i>Total</i>		15	<i>Total</i>		12

		<i>Hours</i>	
<i>Summer</i>			
ARCH 5506	Internship	6	
<i>Total</i>		6	

SECOND YEAR

<i>Fall Semester</i>		<i>Hours</i>	<i>Spring Semester</i>		<i>Hours</i>
ARCH 5556	Architecture Design IX	6	ARCH 5579	Comprehensive Project Studio	9
ARCH 5513	Research Seminar	3		ARCH Elective	3
ARCH 5593	Professional Practice	3		Elective	3
	Elective	3			
<i>Total</i>		15	<i>Total</i>		15

PROGRAM III: For students entering the program with a bachelors degree in some field other than architecture. This option will require a minimum of 109 semester credit hours of study involving a combination of undergraduate and graduate study.

FIRST YEAR					
		<i>Hours</i>			
<i>Summer</i>					
ARCH 2006	Intensive Architecture Design I	6			
ARCH 2016	Intensive Architecture Design II	6			
<i>Total</i>		12			
<i>Fall Semester</i>		<i>Hours</i>	<i>Spring Semester</i>	<i>Hours</i>	
ARCH 3256	Architecture Design V	6	ARCH 3266	Architecture Design VI	6
ARCH 2233	History and Theory of Architecture I	3	ARCH 2243	History and Theory of Architecture II	3
ARCH 3294	Structural Systems I	4	ARCH 4433	Structural Systems II	3
ARCH 2273	Materials and Methods I	3	ARCH 3283	Materials and Methods II	3
ARCH 1273	Intro. to Multimedia Computing	3	ARCH 2223	Computer Aided Design	3
<i>Total</i>		19	<i>Total</i>		18

SECOND YEAR					
<i>Fall Semester</i>		<i>Hours</i>	<i>Spring Semester</i>	<i>Hours</i>	
ARCH 4456	Architecture Design VII	3	ARCH 4476	Architecture Design VII	3
ARCH 4483	Structural Systems III	3	ARCH 3463	Environmental Systems II	3
ARCH 3453	Environmental Systems I	3		Graduate Elective	3
ARCH 4443	CAD Documents and Codes	3			
<i>Total</i>		15	<i>Total</i>		12

<i>Summer</i>		<i>Hours</i>
ARCH 5506	Internship	6
<i>Total</i>		6

THIRD YEAR					
<i>Fall Semester</i>		<i>Hours</i>	<i>Spring Semester</i>	<i>Hours</i>	
ARCH 5556	Architecture Design IX	6	ARCH 5579	Comprehensive Project Studio	9
ARCH 5513	Research Seminar	3		ARCH Elective	3
ARCH 5593	Professional Practice	3		Elective	3
	Elective	3			
<i>Total</i>		15	<i>Total</i>		15

MASTER OF COMMUNITY DEVELOPMENT DEGREE PROGRAM

The master's program is based on the concept of Community Development as a profession. This demands an integrative educational experience. The curriculum must broaden the knowledge base, promote a sense of research, fast learning and decision making; and develop interactive and collaborative skills applicable to teamwork, management, leadership and entrepreneurship.

ADMISSION REQUIREMENTS

Regular application requirements of the University apply to all applicants for the Community Development Masters degree. In addition, the candidates must schedule a meeting with the program director to develop a study plan which will lay out course selections and identify the need, if any, for additional credit hours beyond the required 36.

DEGREE PROGRAM REQUIREMENTS

The degree requires a minimum of 36 semester credit hours. The core of the program consists of 24 credit hours of courses required of all students. A list of pre-approved courses is provided. From it the student may select the remaining twelve credit hours. Alternative courses may be selected from offerings of other degree programs on campus, with departmental approval.

Required courses	24 SCH
CODE 5013 Community Development Seminar	
CODE 5016 Community Development Studio I	
CODE 5023 Advanced Community Development	
CODE 5026 Community Development Studio II	
CODE 5406 Internship	
Elective courses	12 SCH
Select from:	
CODE 5303 Community Political Structure	3 SCH
CODE 5313 Community Management and Leadership	3 SCH
CODE 5323 Organizational Analysis	3 SCH
CODE 5343 Community Research	3 SCH
CODE 5353 Resource Development	3 SCH
CODE 5363 Community Physical Structure	3 SCH
Total Degree Requirements	36 SCH

College of Arts and Sciences**ADMINISTRATIVE OFFICER**Gerard Rambally, *Dean***ADMINISTRATIVE STAFF**Anil Kumar, *Associate Dean***INSTRUCTIONAL ORGANIZATION**

The College of Arts and Sciences offers graduate programs leading to the Master's degree in the areas of Biology, Chemistry, English, Mathematics, and Sociology. Students admitted to the graduate programs as degree candidates in the College of Arts and Sciences must follow a degree program as outlined by the specific department. A degree plan will be designed according to the student's academic background, personal needs and interests.

Department	Program	Degree Offered
<i>Biology</i>	Biology	M.S.
	Environmental Toxicology	M.S.
<i>Chemistry</i>	Chemistry	M.S.
<i>Languages and Communications</i>	English	M.A.
<i>Mathematics</i>	Mathematics	M.S.
<i>Division of Social Work, Behavioral and Political Science</i>	Sociology	M.A.

Graduate coursework in biology, chemistry, English, and mathematics may also be applied to a master's degree program in education with a concentration in these areas. Students seeking this option should apply for admission to graduate study in the College of Education.

ADMISSION REQUIREMENTS

The student seeking admission to the graduate program is required to:

1. Submit a formal application for admission to the Graduate School. See Admissions Section for deadline dates and requirements.
2. Applicants admitted to the university Graduate School must also be admitted by the college or department in which the student plans to pursue a degree. Students should consult the catalog section covering the specific discipline for departmental requirements for admission.

Department of Biology**ADMINISTRATIVE OFFICER**George E. Brown, *Department Head, Microbiology***FACULTY**

Lee E. Henderson, *Anatomy and Physiology*
 Harriette Howard-Lee, *Molecular Biology*
 Alphonso Keaton, *Physiology*
 Edward W. Martin, *Embryology*
 Gloria Regisford, *Reproductive Physiology*
 Seab A. Smith, *Botany*
 Halcyon Watkins, *Anatomy and Physiology*

PURPOSE AND GOALS

The graduate program in Biology is designed to provide training at the master's degree level for students who wish to pursue the doctorate; teach biology in high schools, junior, community and liberal arts colleges; or seek employment in various fields of biology, which include research, and aspects of applied biology.

Graduate study provides students with an opportunity to develop their knowledge and creativity in biology to the maximum of their capabilities.

ADMISSION REQUIREMENTS

A student entering graduate study in biology must present a minimum of 24 semester hours in undergraduate biology, which include courses in General Biology, Zoology, and Botany. In addition to the minimum biology course requirement, at least eight semester credit hours in inorganic chemistry and eight semester credit hours in organic chemistry are required. The grade point average in biology courses should be at least 2.75 based upon the 4.00 grading system.

Students who do not meet the minimal prerequisites must do so before being admitted to graduate status unconditionally. Admission to graduate school does not imply admission to candidacy for the Master's degree.

ADVANCEMENT TO CANDIDACY

Admission to candidacy for the Master of Science (M.S.) degree is granted after the student completes a minimum of twelve (12) semester hours of resident graduate credit in biology. Only two courses with "C" grades, regardless of credit hours, will be accepted toward credit for the master's degree. The overall grade point average in biology of a student seeking the Master of Science degree must be a "B" or better.

Persons failing to meet candidacy requirements are placed on probation for a semester or a summer. In the event candidacy requirements are not met at this time, it will be understood that no further graduate credits by the student will be applicable to the M.S. degree in biology.

MASTER OF SCIENCE IN BIOLOGY DEGREE PROGRAM

Courses for which graduate credit may be obtained are numbered 5000 and above. Upon successful completion of the course work and thesis, the student must pass (1) a written comprehensive examination in biology and (2) an oral examination in defense of the thesis and fundamentals of biology.

DEGREE PROGRAM REQUIREMENTS**Program A**

A minimum of 30 hours of graduate biology courses and a thesis.

Program B

A minimum of 30 hours of graduate biology courses and a minor in some other area (preferably in the sciences) and a thesis.

Graduate Minor in Biology

A minor in biology at the graduate level includes 12 semester hours of graduate biology.

Department of Chemistry**ADMINISTRATIVE OFFICER**

Antoine F. Carty, Interim Head, *Organic Chemistry*

FACULTY

Larry L. Cole, *Organic Chemistry*

Vasant M. Doctor, *Biochemistry*

Hylton G. McWhinney, *Analytical Chemistry*

John R. Williams, *Physical Chemistry*

PURPOSE AND GOALS

The Department of Chemistry offers a program of advanced study that prepares graduate students for careers in research, teaching, or industry. Graduate training in the department is multifaceted and flexible, depending on the interests and needs of the student. The program includes coursework, seminars, teaching and/or research, experience, and writing of a thesis.

ADMISSION REQUIREMENTS

Students who plan to work toward the M.S. degree in chemistry must fulfill the following undergraduate requirements: two semesters of inorganic chemistry, one semester of analytical chemistry, two semesters of organic chemistry, and two semesters of physical chemistry. It is expected that the average grades in these chemistry courses and in related courses will not be less than a grade of "C". A student whose overall GPA in graduate coursework falls below 3.0 on a 4.0 scale will be required to demonstrate improvement during the next enrollment or be discontinued in the program. The Department reserves the right to administer a qualifying examination to these students and to advise them on courses they can take to successfully complete the graduate degree.

ADVANCEMENT TO CANDIDACY

The Application for Candidacy Form must be approved by the department head, Dean of Arts and Sciences, and submitted to the Dean of the Graduate School for approval. Research projects for the thesis will be assigned before the student has been approved as a candidate.

MASTER OF SCIENCE IN CHEMISTRY DEGREE PROGRAM

It is recommended that students who plan to qualify for the M.S. Degree in Chemistry spend at least one year in residence and that those who plan to study during the summer periods plan to devote at least one summer to research. Below is a suggested outline of study for the various fields of chemistry. The outlines represent only the minimum requirements:

DEGREE PROGRAM REQUIREMENTS

Each candidate is expected to successfully complete a minimum of 24 semester hours of course work exclusive of research.

- A. Core Classes: twenty (20) SCH
CHEM 5313, 5322, 5323, 5402, 5534, 5613, 5783
- B. Electives: four (4) SCH
Selected from any graduate chemistry courses
- C. Thesis: six (6) SCH

Department of Languages and Communications

ADMINISTRATIVE OFFICER

Dejun Liu, *Department Head*

FACULTY

- Diljit K. Chatha, *English*
- Blondell J. Freeman, *English*
- John Harty, *English*
- Ymitri Jayasundera, *English*
- Antonio Jocson, *English*
- Robert Kirschten, *English*
- Melinda McBee, *English*
- James Palmer, *English*
- E. Joahanne Thomas-Smith, *English and Education*
- Stella Thompson, *English*
- Sarah Wakefield, *English*

PURPOSE AND GOALS

Graduate study in English leads to the Master of Arts degree. It aims to increase capabilities in comprehending and analyzing literature and language. While graduate students have traditionally entered law school or become teachers following completion of the degree requirements, the exposure to American and British literature as well as to linguistics and grammar provides students with the foundation on which various technical, educational, and administrative careers can be built.

ADMISSION REQUIREMENTS

For admission to the program, a student should present a minimum of 18 semester hours of undergraduate English coursework and a minimum grade of "B" in that work. Prerequisite courses not taken at the undergraduate level, such as the English Language, must be taken before the student advances beyond 12 semester hours of graduate coursework. A student is expected to pass an English qualifying examination before admission to candidacy is approved.

Action on admission to candidacy for a Master of Arts degree in English will be taken after the student has been in residence for at least one semester or summer session; earned at least 12 semester hours of graduate course credits; maintained a "B" average or better; and satisfactorily passed a comprehensive examination in English language and literature.

The student failing to meet the above requirements will be continued on probation for a second semester. In the event the requirements for candidacy remain unmet, it will be understood that no further graduate credits earned by the student will be applicable to a master's degree.

MASTER OF ARTS IN ENGLISH DEGREE PROGRAM

Of the 33 semester hours required for graduation with the M.A. in English, 27 must be taken at this university. Students can select all of their coursework within English, or take 24 SCH of English courses and 9 SCH in an approved minor program.

SUGGESTED DEGREE PROGRAM – ENGLISH WITH NO MINOR

English Language 3 SCH
 ENGL 5113 Linguistics and Grammar

Literature 24 SCH
 ENGL 5243 Shakespeare
 ENGL 5233 Medieval Literature
 ENGL 5213 A Study of the Short Story
 ENGL 5223 The Novel
 ENGL 5263 Seminar in Masterpieces of Literature
 ENGL 5313 Literary Criticism
 ENGL 5143 English Workshop
 ENGL 5273 Chaucer

Research 6 SCH
 ENGL 5123 Research
 ENGL 5133 Seminar in Thesis Writing

SUGGESTED DEGREE PROGRAM – MINOR OPTION

English Language 3 SCH
 ENGL 5113 Linguistics and Grammar

Literature 15 SCH
 ENGL 5243 Shakespeare
 ENGL 5213 A Study of the Short Story
 ENGL 5223 The Novel
 ENGL 5263 Seminar in Masterpieces of Literature
 ENGL 5143 English Workshop

Research 6 SCH
 ENGL 5123 Research
 ENGL 5133 Seminar in Thesis Writing

Minor 9 SCH

REQUIREMENTS FOR THE MINOR IN ENGLISH

ENGL 5113, and 6 semester hours of 5000 level courses

Department of Mathematics

ADMINISTRATIVE OFFICER

Aliakbar M. Haghighi, Professor & Department Head, *Probability & Statistics, Queuing Theory*

FACULTY

Neslon Butuk, *Applied Mathematics*

Arouna R. Davies, *Operation Research*

Frank T. Hawkins, *Mathematics Education*

Vera C. King, *Mathematics Education*

Jian-ao Lian, *Wavelet Analysis and Applications*

Dimitar P. Michev, *Differential and Difference Equations*

n'Ekwunife Muoneke, *Computational Linear Algebra*

George A. Roberts, *Complex Analysis and Approximation Theory*

Evelyn E. Thornton, *Algebraic Topology and Fractals*

Johnson K. Wetiba, *Statistics*

PURPOSE AND GOALS

The Department of Mathematics offers innovative and flexible graduate programs in Mathematics. Students are encouraged to be creative in putting together a course of study that will lead to the fulfillment of individual professional goals in Statistics, Pure Mathematics, Applied Mathematics or Mathematics Education Teaching. Faculty advisors are available to assist students on a continual basis to ensure proper course selection towards graduation and career goals. The department graduate coordinator will assist students in obtaining graduate assistantships and in the final preparations for graduation, such as thesis submission, presentation for non-thesis option, and transcript audit. All applicants seeking the master degree in mathematics should plan a degree program with a graduate advisor.

~~A faculty advisor and/or the Coordinator of graduate mathematics will assist each graduate student on a continual basis to ensure proper course selection relative to career objectives and goals.~~

DEGREE PROGRAM

The Department of Mathematics offers a Master of Science degree program with thesis and non-thesis options. The Department also provides graduate support courses for degree programs in science and engineering.

ADMISSION REQUIREMENTS

Application for admission to graduate study is made through the Office of Graduate Programs. Applicants seeking a Master of Science degree in mathematics should have the equivalent of an undergraduate major in mathematics from an accredited institution. Applicants who do not hold the equivalent of an undergraduate major in mathematics should request an approved deficiency plan in order to meet this requirement.

MASTER OF SCIENCE IN MATHEMATICS DEGREE PROGRAM REQUIREMENTS – THESIS OPTION

A minimum of 36 semester hours (including thesis) is required for this M.S. degree in mathematics. These courses must be selected from approved 5000 level courses and a grade point average of 3.00 or better must be maintained with no grade below a "C".

Twelve (12) credit hours of the 36 semester credit hours must include:

MATH 5003 The Real Number System

MATH 5013 Introduction To Point-Set Theory

MATH 5023 Complex Analysis I

MATH 5123 General Topology I

Twelve (12) semester credit hours of the 36 semester credit hours must be selected from one of the following areas:

Statistics	Pure Mathematics	Applied Mathematics
MATH 5233	MATH 5033	MATH 5173
MATH 5473	MATH 5133	MATH 5343
MATH 5753	MATH 5773	MATH 5723
MATH 5773	MATH 5913	MATH 5823

Thesis: 6 SCH

The student must prepare and defend an approved thesis following the Graduate School guidelines.

The remaining 6 semester credit hours must be selected from any of the other 5000 level mathematics courses.

MASTER OF SCIENCE IN MATHEMATICS DEGREE PROGRAM REQUIREMENTS – NON-THESIS OPTION

A minimum of 36 semester hours is required for this M.S. degree in mathematics. These courses must be selected from approved 5000 level courses and a grade point average of 3.00 or better must be maintained with no grade below a "C". In addition, all applicants seeking this degree option must pass a comprehensive written exit exam and give an oral presentation on an approved topic in mathematics.

Twelve (12) credit hours of the 36 semester credit hours must include:

MATH 5003 The Real Number System

MATH 5013 Introduction To Point-Set Theory

MATH 5023 Complex Analysis I

MATH 5123 General Topology I

Eighteen (18) semester credit hours of the 36 SCH must be selected from the following:

MATH 5303, Modern techniques in Secondary Math

MATH 5443, Statistics for High School Teachers

MATH 5003, The Real Number System

MATH 5013, Introduction to Point-Set Theory

MATH 5103, Special Problems

MATH 5113, Elementary Functions

MATH 5173, Computer Programming

MATH 5203, Calculus for High School Teachers

MATH 5233, Selected Topics in Mathematics

MATH 5283, Structure of Arithmetic

MATH 5293, Logic and Geometry

MATH 5413, Seminar

MATH 5543, Integrated Introduction to

MATH 5991, Independent Study

MATH 5992, Independent Study

MATH 5993, Independent Study

Six (6) semester credit hours of Curriculum and Instruction:

CURR 5003, Theory & Dynamics of Curriculum & Instruction

EDEN 5103, Foundations of Educational Research

Division of Social Work, Behavioral and Political Science

ADMINISTRATIVE OFFICERS

Walle Engedayehu, *Interim Division Head*

FACULTY

Allison Cotton, *Sociology*
 Karen Douglas, *Sociology*
 Robert P. Jones, *Sociology*
 Sarah Williams, *Sociology*

PURPOSE AND GOALS

The mission of the graduate program in Sociology at Prairie View A&M University is to develop professional sociologists who are broadly educated in substantive areas of sociology and well trained in theory and methods.

The Master of Arts degree program in sociology offers a curriculum that enables students to analyze, critically evaluate and engage in the planning of solutions to problems that evolve from patterns of human social interaction. The graduate program prepares students for advanced study (e.g., Ph.D.) in sociology, criminology, law, and social welfare.

ADMISSION REQUIREMENTS

In addition to the regular application requirements of the university, applicants to the M.A. program must have the following:

- 1) A minimum of fifteen hours of undergraduate sociology courses is required, including one course in sociological theory, a basic statistics course, and a course in research methods. Students who apply without this background may be admitted under the condition that they must make up the undergraduate deficiency before starting the MA degree program courses. None of the courses used to correct the deficiency may be counted toward the MA degree.
- 2) Applicants must present evidence that they are capable of successfully completing a rigorous graduate program. Such evidence must include completion of a department application, and three letters of recommendation from persons in a position to evaluate the student's academic potential.

MASTER OF ARTS IN SOCIOLOGY DEGREE PROGRAM

A total of 37 semester hours of graduate course work must be completed in graduate status. For those opting to do a thesis, the requirements include 31 hours of course work and 6 hours devoted to the M.A. thesis. Upon the decision to undertake a thesis, the student will form a committee consisting of two sociology faculty, one of whom will serve as the principle advisor, and one additional faculty member from the Division of Social Work, Behavioral and Political Sciences. The topic of the thesis will be determined by the student and the advisor. The format will follow ASA thesis guidelines in conjunction with established criteria by the Sociology Program. The thesis must be orally defended and approved by all members of the faculty thesis committee before the degree is conferred. The student must register for thesis each semester until satisfactorily completed. No graduate credit will be given for undergraduate courses.

For students selecting the thesis option, 31 hours of course work must be completed and 6 hours of supervised thesis hours. Of the 31 hours of course work, 10 hours are core requirements and the remaining 21 are sociology support/elective requirements no more than 6 hours of which can be taken from outside the program.

For students selecting the non-thesis option, 37 hours of course work must be completed: 10 hours of core courses, 21 hours of support area requirements, and 6 hours taken outside the program.

Admission to candidacy will be granted upon completion of 12 semester hours of graduate work in sociology with an average grade of B or better. These hours must be completed in residence. The student must complete the Application for Admission to Candidacy form, through the Division of Social Work, Behavioral and Political Sciences, to the Dean of the Graduate School for approval.

Students must maintain an average GPA of 3.0. Only two courses with a "C" grade, regardless of credit hours, will be accepted toward credit for the Master's degree.

DEGREE PROGRAM REQUIREMENTS

Common Core.....10 SCH

All of the following must be taken within the student's first two semesters of enrollment:

- SOCG 5021 Professional Seminar in Sociology
- SOCG 5123 Social Statistics
- SOCG 5213 Classical Sociological Theory
- SOCG 5223 Research Methods

Non-Thesis Option

- 21 SCH Selected From:
- SOCG 5243 Urban Sociology
 - SOCG 5263 Sociology of Education
 - SOCG 5333 Criminology
 - SOCG 5353 Seminar in Race Relations
 - SOCG 5413 Contemporary Sociological Theory
 - SOCG 5423 Social Stratification
 - SOCG 5433 Theory of Criminal Justice System
 - SOCG 5443 Social Movements
 - SOCG 5453 Complex Organizations
 - SOCG 5553 Sociology of Gender and Sex Roles

- 6 SCH Selected From:
 Related fields approved by advisor

Thesis Option

- 15 SCH Selected From:
- SOCG 5243 Urban Sociology
 - SOCG 5263 Sociology of Education
 - SOCG 5333 Criminology
 - SOCG 5353 Seminar in Race Relations
 - SOCG 5413 Contemporary Sociological Theory
 - SOCG 5423 Social Stratification
 - SOCG 5433 Theory of Criminal Justice System
 - SOCG 5443 Social Movements
 - SOCG 5453 Complex Organizations
 - SOCG 5553 Sociology of Gender and Sex Roles

- 6 SCH Selected From:
 Related fields approved by advisor

- 6 SCH Thesis
 SOCG 5613 Thesis
 SOCG 5623 Thesis

Total Degree Requirements 37 SCH

Total Degree Requirements 37 SCH

Army Reserve Officers Training Corps

FACULTY

LTC Dexter Q. Henson, Professor of Military Science
 MAJ Vonna Baxter, Assistant Professor of Military Science
 LTC Robert R. Clarke, Assistant Professor of Military Science
 MAJ Anita Roberts, Assistant Professor of Military Science
 CPT James Larry, Assistant Professor of Military Science
 MSG Bruce Veals, Senior Military Instructor
 SFC Jeffrey P. Graves, Military Instructor

PURPOSE AND GOALS

The mission of the Army ROTC program is to prepare college students for professional careers as United States Army Officers. The faculty and staff in the department are dedicated military and civilian personnel committed to producing the highest caliber leaders for the nation.

The experience and training provided by Army ROTC separates ROTC graduates from their peers. Army ROTC Cadets are taught to be leaders and are provided hands-on experience in managing physical, financial, and human resources. Our cadets often possess a higher level of self-confidence and superior decision-making skills. The challenge of developing leaders to manage resources and command units equipped with state-of-the-art equipment forms the basic foundation of the military science curriculum.

Graduate students interested in earning a commission are encouraged to apply for an Army ROTC Scholarship. Besides tuition, the scholarship pays educational fees, provides \$600 for books per year, and provides the cadet a \$350-\$400 stipend for each month of the school year.

The Army ROTC course for graduate students allows for a student to complete all requirements in two years. Students with no prior military may be eligible to attend the Leaders Training Course (see below). Students with Prior Service or JROTC experience may be allowed to enroll directly in the advanced course (see below). The advanced course covers the final two years of the ROTC program and includes a five-week camp held during the summer between the first and second year of graduate school. While enrolled in the advanced course, a cadet receives a stipend ranging from \$350-\$400 per month for up to 10 months of the school year and approximately \$700 for attending the National Advanced Leadership Camp.

COMMISSIONING PROGRAM

Completion of Army ROTC qualifies graduate students in all fields for a commission as a Second Lieutenant in the United States Army.

Prior Service

Students with a good record of prior military may be allowed to enroll directly in the advanced course. Students with such experience should contact the Professor of Military Science.

Internship: Leader's Training Course

Graduate students without any prior military service may be allowed to enroll in the advanced course after successfully completing the summer Leader's Training Course internship, at Fort Knox, Kentucky. The internship is a four-week training program conducted during the summer months, and it is designed to orient students to the U.S. Army. The training develops and evaluates their officer leadership potential and qualifies them for enrollment in the ROTC Advanced Course program. The student graduates from this program with increased confidence, self-discipline, and decisiveness developed through physical and academic challenges. Participants will receive approximately \$700 for the internship. Students who successfully complete the training may also qualify for an Army ROTC two-year scholarship.

ADVANCED COURSE ADMISSION REQUIREMENTS

Course	Prerequisites
ARMY 3313	Completion of the summer internship or prior service, or have completed four years of junior ROTC in high school.
ARMY 4413	ARMY 3313, 3371, 3323, 3381

COMMISSIONING PROGRAM REQUIREMENTS

A cadet must satisfy the following requirements in order to be commissioned:

1. Complete or receive constructive credit for 16 hours of Military Science courses.
2. Satisfactorily complete National Advanced Leadership Camp.
3. Receive a minimum grade of C in all Military Science courses.

SUGGESTED COMMISSIONING REQUIREMENT COMPLETION SEQUENCE

FIRST YEAR, ADVANCED COURSE

First Semester	Hours	Second Semester	Hours
ARMY 3313 Small Unit Tactics	3	ARMY 3323 Prin. and Techniques of Command	3
ARMY 3371 Leadership Lab V	1	ARMY 3381 Leadership Lab VI	1
Total	4	Total	4

SECOND YEAR, ADVANCED COURSE

First Semester	Hours	Second Semester	Hours
ARMY 4413 Army Management and Leadership	3	ARMY 4423 Army Admin. and Professionalism	3
ARMY 4471 Leadership Lab VII	1	ARMY 4481 Leadership Lab VIII	1
Total	4	Total	4

College of Business**ADMINISTRATIVE OFFICERS**

Munir Quddus, *Dean*

ADMINISTRATIVE STAFF

John W. Dyck, *Director, Graduate Programs in Business*

FACULTY

William Bailey, *Accounting*

Sukumar C. Debnath, *Management*

Bettye Desselle, *Accounting*

Jeanne Hill, *Marketing*

Omprakash Gupta, *Management*

M. Moosa Khan, *Economics/ Finance*

George W. Nelson, Jr., *Management*

Emmanuel Opara, *Management Information Systems*

Diana Kay Pence, *Accounting*

Munir Quddus, *Economics*

Rahim Quazi, *Economics*

Randy Reed, *Accounting*

Mostafa Soliman, *Economics*

Peter W. Sutanto, *Management*

Sudhir Tandon, *Marketing*

William Vetter, *Business Law*

Jian Yang, *Finance*

PURPOSE AND GOALS

The vision of the Prairie View A&M University's College of Business is to be recognized as one of the best business programs among its peer institutions. The mission of the College of Business is to provide a high quality management education that would produce managers, entrepreneurs and business leaders of the future. Consistent with this mission, the College is committed to the pursuit of excellence in teaching, research and service, with relative emphasis in that order. While the University continues to expand graduate education, the College recognizes undergraduate education as its primary responsibility. The College of Business builds on its historic mission of providing education for African-Americans to an expanded mission of educating students from diverse ethnic, national, and socio-economic backgrounds. The College of Business intends to interact productively with five key constituents: Students and alumni; faculty and staff; business and industry; the community of academic and professional peers and the citizens of the state of Texas.

INSTRUCTIONAL ORGANIZATION

The College of Business offers a Master of Business Administration (MBA) degree and a Master of Science in Accounting (MSA). The MBA degree requires a minimum of 36 semester credit hours and the MSA degree requires a minimum of 30 semester credit hours. There is no thesis option in either program.

ACADEMIC PERFORMANCE STANDARDS

In order to show good academic progress, every graduate business student must maintain a cumulative GPA of 3.0 or higher in any academic semester. Students with a cumulative GPA below 3.0 will be put in probationary status. Graduate business students are considered in good standing if they:

1. Have degree status.
2. Have a cumulative GPA of 3.0 or higher.
3. Have no more than two grades of "C" in courses counted toward their graduate business degree.
4. Have no grade lower than "C" in courses counted toward their graduate business degree.
5. Have an approved degree plan.

Academic Suspension

Students whose semester GPA falls below 3.0 for two consecutive semesters and whose cumulative GPA falls below 3.0, will be suspended from the program. Students under suspension cannot enroll in any course for at least one fall or spring semester. Suspended students may request to return to the program by submitting a written petition to the Dean of the College of Business. If the Dean approves the petition, the student may return in a probationary status. Students with more than one suspension will be dismissed from the graduate business program.

Probationary Status

A condition in which a student must maintain more than a 3.0 GPA each semester until his or her cumulative GPA reaches 3.0. A student can stay under probationary status for a maximum of 12 semester credit hours or two consecutive semesters.

The Two-C Rule

Only two courses (or six credit hours) with a "C" grade will be accepted toward the graduate degree. Students who earn more than two grades of "C" or any grade below "C" may be suspended from the graduate business program. Students may submit a written petition to the Dean of the College of Business for readmission. If the petition is approved, students may return in a probationary status.

Repeating A Course

Students may retake a course with the permission of the Director, Graduate Programs in Business. Courses with a grade of "C" or lower may be repeated only once. The grade earned in the last attempt is used in calculating the cumulative GPA.

TRANSFER CREDIT

A new student may transfer graduate credits from another accredited institution:

1. The student submits a transfer request to the Director, Graduate Programs in Business during the first semester at PVAMU.
2. The student shows the official catalog description of the transfer course.
3. The Director, Graduate Programs in Business gives a written approval for the course transfer.
4. The transfer graduate credit is included in the degree plan.

A continuing student may be permitted to take a maximum of two courses from other institutions if:

1. The student is in good standing.
2. The student has a degree status and a cumulative GPA of 3.0 or better.
3. The official catalog description of the transfer course is submitted to the Director, Graduate Programs in Business at least four weeks prior to enrollment.
4. The Director, Graduate Programs in Business has given a written approval for the course transfer prior to enrollment.
5. The student has not earned a grade of "C" or lower in the PVAMU course equivalent to the intended transfer course.

Subsequent to completion of the course, the student must request the university where the course was taken to send the official transcript (showing the official grade) to the Office of Graduate Programs and the Director, Graduate Programs in Business.

ADVANCEMENT TO CANDIDACY

Admission to the graduate business program does not constitute advancement to candidacy. Such advancement will be granted to a degree-status student who has completed at least 12 semester hours of graduate credit with a cumulative GPA of 3.0 or more. The student must submit a formal application and a degree plan to the Director, Graduate Programs in Business.

The application to candidacy and the degree plan must be approved by the Director, Graduate Programs in Business and the Dean of the College of Business. The final approval of the degree plan and the admission to candidacy are granted by the Dean upon approval of the Office of Graduate Programs. Failure to fulfill this requirement may prevent the student from enrolling the following semester.

APPLICATION FOR GRADUATION

Students should inform the Director, Graduate Programs in Business when they are within two semesters of degree completion of their intention to graduate. The Director will review their academic records and advise them on graduation procedures. Graduating students must formally apply for graduation to the Registrar's office with the approval of the Director. An application for graduation may not be filed unless the applicant is a business graduate student in good standing and has completed or in the process of completing the course requirements.

An application for graduation may not be filed unless the applicant:

1. Has been admitted to candidacy at least one semester prior to applying for graduation.
2. Has earned a 3.0 cumulative GPA with no grade less than a "C".
3. Has earned no more than two grades of "C" in graduate courses.
4. Has completed or is in the process of completing the course requirements.

SIX-YEAR TIME LIMIT

Students must obtain their graduate business degree within a six consecutive year time frame or lose credit for work completed before that time. Work taken at other institutions and work completed at PVAMU expire at the end of six years from completion. Expired courses cannot be used to fulfill the MBA requirement.

MASTER OF BUSINESS ADMINISTRATION (MBA) DEGREE PROGRAM REQUIREMENTS

The MBA program is designed to provide students who demonstrate sufficient academic potential with the opportunity to acquire the knowledge and skills necessary to succeed as managers and entrepreneurs. The program integrates the various business disciplines to provide a high quality educational experience needed for managing a business. In addition to emphasizing tools and techniques, the program strives to impart those liberal education qualities conducive to a professional life of learning, growth, and ethical conduct. The aim of the program is to produce graduates who are capable of solving the problems of organizations in a dynamic national and global environment.

ADMISSION REQUIREMENTS

Students desiring admission to the MBA degree program must meet the general admission requirements as outlined in the Graduate School section of this catalog. Admission to the graduate school does not constitute admission to the MBA program in the College of Business.

An applicant may be admitted to the MBA degree program as a degree-status graduate student if he or she fulfills the minimum admission requirements as follows:

1. Undergraduate degree from an accredited university.
2. Overall undergraduate grade point average (GPA) of 2.75 on a 4.0 scale.
3. Take the Graduate Management Admissions Test (GMAT) prior to enrollment
4. A career oriented essay describing why the applicant wants a graduate degree in business. The essay will not exceed 1000 words.

Conditional admission (provisional admission) may be granted to applicants who do not satisfy the above admission requirements. Students with conditional status may be required to complete additional coursework, retake the GMAT, and/or maintain a specific grade point average. General restrictions on conditional-status students are as follows:

1. Students must enroll in courses recommended by the Director, Graduate Programs in Business.
2. Students may enroll for a maximum of 12 semester credit hours of graduate courses. In order to continue in the program, students must reach degree-status.
3. The first 12 semester credit hours must include at least two of the following courses: MGMT 5113, ACCT 5003, or FINA 5003.
4. The maximum length of a conditional period is four academic semesters, counted from the time of the first enrollment.

A student with conditional admission may attain degree status if he or she:

1. maintains a cumulative GPA of 3.0 or more during the first 12 semester credit hours.
2. has no more than one grade of "C".
3. has no grade lower than "C"
4. is recommended for degree-status by the Director, Business Programs and the Dean of the College of Business.

MBA DEGREE PROGRAM REQUIREMENTS

If the student has an undergraduate degree in business, the degree program requires a total of 36 semester credit hours (SCH) including 30 SCHs of required courses and 6 SCHs of electives.

If the student has a non-business undergraduate degree, the degree program requires up to a total of 54 SCHs including a maximum of 18 SCHs from core (prerequisite) courses, 30 SCHs of required courses and 6 SCHs of electives. Students whose undergraduate programs included some subject content equivalent to the core courses may be exempted from selected courses. Students may also receive exemption from specific core (pre-requisite) courses through examination or transfer. Specific course requirements for individual students will be determined during the admission process which includes a complete review of undergraduate transcripts and work experience.

Core (pre-requisite) Courses	18 SCH
ACCT 5003 Concepts of Accounting	
ECON 5003 Concepts of Economic Analysis	
FINA 5003 Concepts of Finance	
FINA 5013 Legal Environment of Business	
MGMT 5113 Business Statistics	
MRKT 5003 Concepts of Marketing	
Required Courses	30 SCH
ACCT 5103 Managerial Accounting	
MISY 5203 Managerial Communications	
MISY 5513 Management Information Systems	
ECON 5103 Managerial Economics	
FINA 5103 Theory of Financial Management	
MGMT 5103 Organizational Behavior	
MGMT 5123 Quantitative Analysis	
MGMT 5323 Strategy and Policy	
MGMT 5433 Production and Operations Management	
MRKT 5303 Marketing Management	
Elective Courses	6 SCH
Select from:	
FINA 5313 Investment Analysis and Management.....	3 SCH
FINA 5333 International Finance.....	3 SCH
MGMT 5343 Human Resource Management.....	3 SCH
MGMT 5613 Special Topics.....	3 SCH
MRKT 5313 International Marketing	3 SCH
Total Degree Requirements	36-54 SCH

MASTER OF SCIENCE IN ACCOUNTING DEGREE PROGRAM

The MSA degree is designed to provide advanced accounting preparation for careers in public, private and governmental accounting. Also, the MSA will prepare students to meet the Texas State Board of Public Accountancy prerequisites to the Uniform CPA Examination.

ADMISSION REQUIREMENTS

Students desiring admission to the MSA degree program must meet the general admission requirements as outlined in the Graduate School section of this catalog. Admission to the graduate school does not constitute admission to the MSA program in the College of Business.

An applicant may be admitted in a graduate business program as a degree-status graduate student if he or she fulfills the minimum admission requirements as follows:

1. Undergraduate degree from an accredited university,
2. Overall undergraduate grade point average (GPA) of 2.75 on a 4.0 scale.
3. Take the Graduate Management Admissions Test (GMAT) prior to enrollment
4. A career oriented essay describing why the applicant wants a graduate degree in business. The essay will not exceed 1000 words.

Conditional admission (provisional admission) may be granted to applicants who do not satisfy the above admission requirements. Students with conditional status may be required to complete additional coursework, retake the GMAT, and/or maintain a specific grade point average. General restrictions on conditional-status students are as follows:

5. Students must enroll in courses recommended by the Director, Graduate Programs in Business.
6. Students may enroll for a maximum of 12 semester credit hours of graduate courses. In order to continue in the program, students must achieve degree-status.
7. The first 12 semester credit hours must include at least two of the core courses listed below.
8. The maximum length of a conditional period is four academic semesters, counted from the time of the first enrollment.

A student with conditional admission may attain degree status if he or she:

1. Maintain a cumulative GPA of 3.0 or more during the first 12 semester credit hours.
2. Have no more than one grade of "C".
3. Have no grade lower than "C"
4. Are recommended for the degree-status by the Director, Business Programs in Business and the Dean of the College of Business.

MSA DEGREE PROGRAM REQUIREMENTS

If the student has an undergraduate degree in accounting, the degree program requires a total of 30 semester credit hours (SCH) including 21 SCHs of required courses and 9 SCHs of electives.

If the student has a non-accounting undergraduate degree, the degree program requires a total of up to 48 SCHs including a maximum of 18 SCHs from core(prerequisite) courses, 21 SCHs of required courses and nine SCHs of electives. Students with non-accounting undergraduate degrees must complete the core (prerequisite) courses with a grade of C or better before they can be formally admitted to the MSA degree program. These courses cannot be used to fulfill the requirements of the MSA degree program.

Students whose non-accounting undergraduate program contained subject matter equivalent to that required by the core (prerequisite) courses may be exempted from selected courses. The student may also be exempted through examination. Specific program requirements will be determined during the admission process which includes a complete review of undergraduate transcripts and work experience.

Core courses

- ACCT 2113 Financial Accounting (3-0) Credit 3 semester hours
- ACCT 2123 Managerial Accounting (3-0) Credit 3 semester hours
- ACCT 3213 Intermediate Accounting I (3-0) Credit 3 semester hours
- ACCT 3223 Intermediate Accounting II (3-0) Credit 3 semester hours.
- ACCT 3333 Federal Income Tax I (3-0) Credit 3 semester hours.
- ACCT 4223 Auditing (3-0) Credit 3 semester hours.

Required Courses

- ACCT 5113 Advance Auditing
- ACCT 5123 Accounting Information Systems & Controls
- ACCT 5133 Accounting for Managerial Decision-Making
- ACCT 5143 Accounting Theory
- ACCT 5153 Seminar in Tax Consulting, Planning & Research
- ACCT 5163 Law & Ethics for Accountants
- MISY 5203 Managerial Communications

Elective Courses	9 SCH
MISY 5513 Management Information Systems	
ECON 5103 Managerial Economics	
FINA 5103 Theory of Financial Management	
FINA 5313 Investment analysis and Management	
FINA 5333 International Finance	
MGMT 5123 Quantitative Analysis	
MGMT 5343 Human Resource Management	
MGMT 5433 Production and Operations Management	
MRKT 5303 Marketing Management	
MRKT 5313 International Marketing	
Total Degree Requirements	30 - 48

M BA-MSA Dual Degree

The graduate business program is designed to accommodate dual MSA and MBA degrees. The specific requirements of the dual degree are outlined in the following paragraphs.

For the MBA student interested in the MSA degree, the student must satisfy all requirements for the MSA. They would need a minimum of 18 additional semester credit hours of graduate courses listed below:

- ACCT 5113. Advanced Auditing (3-0) Credit 3 semester hours
- ACCT 5123. Accounting Information Systems and Controls (3-0) Credit 3 semester hours
- ACCT 5133. Accounting for Managerial Decision-Making (3-0) Credit 3 semester hours
- ACCT 5143. Accounting Theory (3-0) Credit 3 semester hours
- ACCT 5153 Seminar in Tax Consulting, Planning, & Research (3-0) Credit 3 semester hours
- ACCT 5163 Law & Ethics for Accountants (3-0) Credit 3 semester hours.

M SA-MBA Dual Degree

For the MSA student interested in the MBA degree, the student must satisfy all requirements for the MBA. They would need a minimum of 21 additional semester credit hours of graduate courses listed below:

- MISY 5513. Managerial Information Systems (3-0) Credit 3 semester hours.
- ECON 5103. Managerial Economics (3-0) Credit 3 semester hours
- FINA 5103 Theory of Financial Management (3-0) Credit 3 semester hours
- MGMT 5123 Quantitative Analysis (3-0) Credit 3 semester hours
- MGMT 5323 Strategy & Policy (3-0) Credit 3 semester hours
- MGMT 5433 Production & Operations Management (3-0) Credit 3 semester hour
- MRKT 5303 Marketing Management (3-0) Credit 3 semester hours

College of Education

ADMINISTRATIVE OFFICER

M. Paul Mehta, *Dean*

ADMINISTRATIVE STAFF

Martha Bailey, *Director of Student Teaching and Field Experiences*
 Marion Henry, *Director of Teacher Certification*
 William H. Parker, *Head, Educational Leadership and Counseling*
 Constance Person, *Head, Curriculum and Instruction*
 Clifton Gilliard, *Interim Head, Health and Human Performance*

PURPOSE AND GOALS

The College of Education is the designated teacher education unit of the University. The objectives of the college center on the areas of pre-service, in-service, and continuing education of teachers in elementary and secondary schools.

The purpose of graduate programs offered by the college is to help the practitioners in the field to gain a mastery of knowledge and skills in a particular area or discipline. Programs are designed to meet the needs of a diverse student population including but not limited to elementary teachers, subject area teachers, teachers of children with special needs, counselors, and those who aspire for supervisory and administrative roles in elementary and secondary schools. The graduate coursework also enables educators to receive certification and/or endorsement in additional fields. Individuals with degrees in fields outside education who desire to be certified as teachers may pursue graduate studies to meet the state certification requirements.

ACCREDITATION

All teacher education programs offered by the College of Education are fully accredited by the Texas State Board for Educator Certification (SBEC) and the National Council for Accreditation of Teacher Education (NCATE).

INSTRUCTIONAL ORGANIZATION

The College of Education provides programs of study leading to the Master of Arts (M.A.), Master of Arts in Education (M.A.Ed.), the Master of Science in Education (M.S.Ed.), the Master of Education (M.Ed.) and the Doctor of Philosophy (Ph.D.) degrees. Requirements for the masters' degrees include a common core of twelve semester credit hours, a program concentration of twelve semester credit hours and a research/resource area containing a research requirement or thesis and electives. The Ph.D. in Educational Leadership (to be implemented in January 2004) offers several specializations.

The departments within the college and departments with related fields in other colleges provide program concentrations required for advanced degrees, professional certificates, and endorsements to certificates. Courses are also available for continuing education and professional development.

Departments in the College of Education offer the following majors and program concentrations:

Department	Degree	Major	Program Concentration
Curriculum and Instruction	M.Ed./M.S.Ed.	Curriculum and Instruction	Agriculture Education
			Educational Media and Technology
			Instructional Technology
			Elementary Education: Strand #1 Early Childhood Education Strand #2 Elementary Education
			Home Economics Education
			Industrial Education
			Mathematics Education
			Reading Education
			Science Education: Strand #1 Biology Strand #2 Chemistry
			M.A.Ed./M.Ed.
M.Ed./M.S.Ed.	Special Education	Music Education Special Education	
Health and Human Performance	M.Ed./M.S.Ed.	Health and Physical Education	Health Education
			Physical Education
Educational Leadership and Counseling	M.Ed./M.S.Ed.	Educational Administration	Educational Administration
			Instructional Supervision
			Counselor Education
	M.A./M.S.Ed.	Counseling	Educational Leadership
			Ph.D. (Effective January, 2004)

Master Reading Teacher Certification Program

The Master Reading Teacher certification program is available to practitioners with a valid Texas teaching certificate and three years teaching experience. Certified reading specialists may also pursue the MRT certification program. The program offers three options: Elementary, Secondary; and Special Education.

ADMISSION TO THE PROGRAMS

A student seeking admission to graduate programs in the College of Education must first be admitted to graduate study and be classified as degree only, certificate-only, degree and certificate, or special graduate student. Specific criteria for admission can be found in the catalog section, "Graduate Admissions."

Formal application for admission to graduate studies is made to the Office of Graduate Programs. The departments offering graduate degrees may set requirements over and above those set by the Office of Graduate Programs.

GRADUATE TEACHER EDUCATION CERTIFICATE AND ENDORSEMENT PROGRAMS

Graduate-level certificate programs are coordinated and administered by the College of Education. Components of these programs are provided by various colleges and departments throughout the University. In general, all professional certificate programs require the following components:

1. An Area of Specialization (12 semester hours), approved by the State Board for Educator Certification (SBEC), that consists of graduate-level courses in a teaching field or support area common to Texas public schools.
2. Professional Development Courses (6 semester hours), consisting of advanced study in the theory, methods, and problems of education; designed to improve the efficiency and effectiveness of public schools and public school personnel.
3. Resource Area(s) (6 semester hours), consisting of courses that provide background or support knowledge and skills for the specialization, or that extend the student's preparation in a closely related field.
4. Electives (6 semester hours) usually in one of the three areas above or a combination of them.

Eligibility for a professional certificate requires two or three years of acceptable teaching experience in an accredited elementary or secondary school. All candidates for certification must pass the appropriate components of the Examination for the Certification of Educators in Texas (ExCET) or the examinations of Educator Standards (TEXES). A listing of certificates available and of the specific requirements for each is provided in this catalog section.

Applications for admission to graduate teacher certification programs may be obtained from the Office of the Dean, College of Education, the Office of Certification, or the Graduate School.

APPROVED PROFESSIONAL CERTIFICATE AND ENDORSEMENT PROGRAMS

Professional All-Level Learning Resources Specialist

Professional Elementary Early Childhood EC-4 Generalist

Professional Secondary Health Spanish Theater Arts Industrial Technology Physical Education

Professional Services Certificates

Principal Standard (formally known as Mid-Management Administrator)
Counselor
Reading Specialist
Superintendent

Professional Special Education Certificates

Education Counselor
Educational Diagnostician

Temporary Professional Service Certificates

Principal Standard (formally known as Mid-Management Administrator)
 Assistant Principal
 Principal
 Superintendent

Professional Vocational Certificates

Agriculture
 Home Economics

REQUIREMENTS FOR THE PROFESSIONAL ELEMENTARY CERTIFICATE**Prerequisites**

A Texas Provisional Elementary Certificate and three years of teaching experience.

Academic Specialization12 SCH

The 12 semester hours must be in a subject taught in Texas public schools and in which the student already has earned at least 18 semester hours of undergraduate credit in a program for elementary teachers.

Professional Development6 SCH

Select from:

CURR 5003 Theory and Dynamics of Curriculum and Instruction 3 SCH
 EDFN 5113 Psychology of Learning and Development 3 SCH
 EDFN 5123 Socio-Cultural Issues in Education 3 SCH
 EDFN 5143 Advanced Educational Statistics 3 SCH

Resource Area6 SCH

Select from:

ELED 5113 Teaching/Learning Styles in the Elementary School 3 SCH
 ELED 5123 Studies in Elementary Education 3 SCH
 ELED 5133 Seminar in Elementary Education 3 SCH
 ELED 5143 Individualizing Instruction in the Elementary School 3 SCH
 ELED 5153 Classroom Communication 3 SCH

Electives6 SCH

Courses may be selected from any of the areas above.

Total Certificate Requirements30 SCH**REQUIREMENTS FOR THE PROFESSIONAL SECONDARY CERTIFICATE****Prerequisites**

A Texas Provisional Elementary Certificate and three years of teaching experience.

Academic Specialization12 SCH

The courses selected, with approval of the advisor, must be graduate level courses in one of the following specializations:

Health
 Spanish
 Theater Arts

Industrial Technology

Physical Education

Professional Development6 SCH

EDFN 5113 Psychology of Learning and Development
 EDFN 5123 Socio-Cultural Issues in Education

Resource Area6 SCH

CURR 5003 Theory and Dynamics of Curriculum and Instruction
 3 semester hours of graduate-level courses selected with approval of advisor.

Electives6 SCH

Courses may be selected from any of the areas above.

Total Certificate Requirements30 SCH**REQUIREMENTS FOR THE EDUCATIONAL ADMINISTRATION PRINCIPAL STANDARD PROFESSIONAL CERTIFICATE****Prerequisites**

- Master's Degree
-
- Two (2) years of Teaching Experience
- Pass ExCET Examination #68

Common Core18 SCH

ADMN 5003 Fundamentals of School Administration
 ADMN 5023 Public School Law
 ADMN 5033 School Business Management
 *ADMN 5043 The Principalship
 ADMN 5073 School Curriculum Leadership
 SUPV 5113 Principles of Supervision

Academic Area12 SCH

ADMN 5193 Educational Statistics
 ADMN 5163 Research
 CNSL 5143 Human Growth and Development
 CNSL 5153 Cross-Cultural Issues

Resource Courses6 SCH

Coursework selected from:

Computer Science
 Educational Testing
 Educational Research

Specialized Preparation6 SCH

ADMN 5133 School Community Relations
 ADMN 5193 Decision Making
 ADMN 5083 Special Topics
 ADMN 5013 Theory, Practice and Research
 ***ADMN 5053 Administration of Special Programs
 ADMN 5103 School Personnel Administration

ADMN 5503 Mid-Management Internship (Last Course)3 SCH

Relevancy Requirements

- The following courses must have been taken within the last ten (10) years in order to receive credit toward certification: ADMN 5023, ADMN 5043, ADMN 5053, ADMN 5073, ADMN 5503 and SUPV 5113
- At least 15 semester hours toward certification must be taken at PVAMU
- No grade of "C" will be accepted toward certification
- In order to receive a barcode label for the ExCET test, the following requirement must be met:
 - i. Completion of all coursework

Total Certificate Requirements.....39 SCH

- * In order to qualify for the 5-Year Temporary Certification, a passing score must be earned on the Departmental Examination and Twelve (12) SCH (including ADMN 5043) must be completed from this Common Core.
- ** If one or more of these programs have been completed (with verification), ADMN 5083, Special Topics, may be taken with the advisor's approval.
- *** Must be taken at PVAMU

REQUIREMENTS FOR THE EDUCATIONAL ADMINISTRATION SUPERINTENDENT CERTIFICATE

Prerequisites

- Master's Degree
- Professional or Professional Principal's Certificate
- Three (3) years of experience in Educational Administration
- Admitted to the Superintendency Program
- Pass ExCET Examination #64
- The following graduate courses must have been completed prior to admission to the Program or be included in the Program Requirements:
 - ADMN 5023 Public School Law
 - ADMN 5013 Theory, Practice and Research
 - SUPV 5113 Principles of Supervision
 - ADMN 5003 Fundamentals of School Administration
 - ADMN 5103 School Personnel
 - ADMN 5033 School Business Management
 - ADMN 5073 Public School Curriculum Leadership
 - CNSL 5143 Human Growth and Development
 - CNSL 5153 Cross-Cultural Issues

***Common Core.....15 SCH**

- **ADMN 5133 School Community Relations or ADMN 5013 Theory, Practice and Research
- ADMN 5063 Problems in Educational Administration
- ADMN 5113 Planning and Managing Educational Facilities
- ADMN 5123 School Finance
- ADMN 5513 Superintendency Internship

Total Certificate Requirements.....15 SCH

- * All of the Specialization Preparation must be taken at PVAMU.
- ** If credit was given toward Mid-Management Certification, another course may be taken from the following suggested list of courses:
 - ADMN 5083 Special Topics in Educational Administration
 - ADMN 5073 Public School Curriculum Leadership
 - CNSL 5123 Appraisal Techniques
 - CNSL 5153 Cross-Cultural Issues
 - SPED 5203 Special Education Seminar or SPED 5213 Introduction to Exceptional Children

REQUIREMENTS FOR THE PROFESSIONAL COUNSELOR CERTIFICATE

The Guidance Program.....3 SCH

Select from:

- CNSL 5003 Organization and Administration of Guidance and Human Service Programs 3 SCH
- CNSL 5053 Professional Orientation and Development..... 3 SCH

Pupil Services.....6 SCH

- CNSL 5083 Psychology of Abnormal Behavior
- CNSL 5143 Human Growth and Development

Resource Area.....21 SCH

- CNSL 5013 Counseling Techniques
- CNSL 5023 Counseling Theory and Practice
- CNSL 5063 Counseling Practicum.I
- CNSL 5113 Career Development Counseling
- CNSL 5123 Appraisal Techniques
- CNSL 5133 Group Dynamics
- CNSL 5153 Cross-Cultural Issues

Total Certificate Requirements.....30 SCH

REQUIREMENTS FOR THE SPECIAL EDUCATION EDUCATIONAL DIAGNOSTICIAN CERTIFICATE

Prerequisites

- Master's Degree
- Valid Texas Teacher's Certificate
- Three (3) years of Teaching Experience

Education for the Handicapped	9 SCH
SPED 5213 Introduction to Exceptional Children	
SPED 5233 Language and Communication Problems	
SPED 5203 Special Education Seminar	
Psycho-educational and Other Diagnostic Procedures	9 SCH
RDNG 5643 Diagnosis and Correction of Reading Difficulties	
SPED 5353 Individual Testing of the Exceptional Child	
SPED 5263 Diagnostic/Prescriptive Techniques for the Exceptional Learner	
Human Development and Learning Theory	9 SCH
EDFN 5113 Psychology of Learning and Development	
SPED 5223 Psychology of Retarded Children	
SPED 5273 Learning Theory	
Instructional Modification	6 SCH
SPED 5283 Curriculum Adjustment	
SPED 5343 Practicum	
Resource Area	3 SCH
EDFN 5123 Socio-Cultural Issues in Education	
Total Certificate Requirements	36 SCH

REQUIREMENTS FOR THE LEARNING RESOURCES SPECIALIST CERTIFICATE

Prerequisites	
• Valid Texas Teacher's Certificate	
• Three (3) years of Teaching Experience	
• Basic understanding of multicultural and multiethnic elements of society	
*Specialization	21-24 SCH
EDTC 5403 Audiovisual Materials	
CURR 5133 Principles of Instructional Design	
EDTC 5423 Reference and Bibliography	
EDTC 5433 Cataloging	
EDTC 5443 Local Production of Instructional Materials	
EDTC 5453 Child and Young Adult Literature	
EDTC 5463 School Media Centers	
EDTC 5473 Practicum or 1 year of acceptable experience as a public school librarian*	
Resource Area	6 SCH
EDFN 5113 Psychology of Learning and Development	
EDFN 5103 Foundations of Educational Research	
Professional Education	6 SCH
CURR 5003 Theory and Dynamics of Curriculum and Instruction	
EDFN 5123 Socio-Cultural Issues in Education	
Total Certificate Requirements	36 SCH

* 21 semester hours required if the 1-year experience is used in place of EDTC 5473.

REQUIREMENTS FOR THE READING SPECIALIST CERTIFICATE

Prerequisites	
• Master's Degree	
• Valid Texas Teacher's Certificate	
• Three (3) years of Teaching Experience	
Reading Education	12 SCH
RDNG 5613 Teaching Reading in Elementary Grades	
RDNG 5633 Teaching Reading in Secondary Schools	
RDNG 5643 Diagnosis and Correction of Reading Difficulties	
RDNG 5663 Clinical Experiences in Reading	
Professional Development	6 SCH
ELED 5113 Teaching/Learning Styles	
ELED 5123 Studies in Elementary Education (for holders of secondary certificate) or	
SCED 5503 Principles of Secondary Education	
SCED 5513 Secondary School Curriculum	
Resource Area	9 SCH
EDFN 5123 Socio-Cultural Issues in Education	
ENGL 5113 Linguistics and English Grammar	
RDNG 5623 Psychology of Reading and Reading Difficulties	
Total Certificate Requirements	27 SCH

REQUIREMENTS FOR THE AGRICULTURAL VOCATIONAL EDUCATION CERTIFICATE

Academic Specialization	18 SCH
Select from:	
AGHR 5323 Workshop in Food and Agricultural Sciences	3 SCH
AGHR 5333 Administration and Supervision of Agriculture and Human Resources	3 SCH
AGHR 5343 Youth Leadership Development	3 SCH
AGHR 5353 Technological Change	3 SCH
AGHR 5363 Philosophy of Agriculture and Human Resources	3 SCH
AGHR 5373 Seminar	3 SCH
AGHR 5813 Vocational Guidance and Counseling	3 SCH
AGHR 5823 Special Topics in the Food and Agricultural Sciences	3 SCH
AGHR 5833 Organization and Administration of Agricultural Extension Programs	3 SCH
Professional Development	6 SCH
Select from:	
CURR 5003 Theory and Dynamics of Curriculum and Instruction	3 SCH
EDFN 5113 Psychology of Learning and Development	3 SCH
EDFN 5123 Socio-Cultural Issues in Education	3 SCH
EDFN 5143 Advanced Educational Statistics	3 SCH

Resource Area	6 SCH
Select courses from the following areas:	
Administration	
Counseling	
Curriculum	
Educational Foundation	
Educational Technology	
Physical Education	
Secondary Education	
Special Education	
Supervision	
Total Certificate Requirements	30 SCH

REQUIREMENTS FOR THE VOCATIONAL HOME ECONOMICS EDUCATION CERTIFICATE

Academic Specialization	18 SCH
Select from:	
HUSC 5313 Studies in Family Resource Management.....	3 SCH
HUSC 5323 Family Ethics and Issues.....	3 SCH
HUSC 5373 Analysis and Treatment of Sexual Dysfunctions.....	3 SCH
HUSC 5383 Child and Adolescent Therapy.....	3 SCH
HUSC 5393 Family Communication	3 SCH
HUSC 5523 Marriage and Family Therapy	3 SCH
HUSC 5533 Family Theory and Issues	3 SCH
HUSC 5543 Theories of Child Development.....	3 SCH
HUSC 5553 Human Development.....	3 SCH
HUSC 5683 Problems in Human Sciences.....	3 SCH
HUSC 5723 Family Financial Counseling.....	3 SCH

Professional Development (6 or more semester hours selected from the following courses)

Select from:	
CURR 5003 Theory and Dynamics of Curriculum and Instruction	3 SCH
EDFN 5113 Psychology of Learning and Development	3 SCH
EDFN 5123 Socio-Cultural Issues in Education	3 SCH
EDFN 5143 Advanced Educational Statistics.....	3 SCH

Resource Area	6 SCH
Select courses from the following areas:	
Administration	
Counseling	
Curriculum	
Educational Foundation	
Educational Technology	
Physical Education	
Secondary Education	
Special Education	
Supervision	
Total Certificate Requirements	31 SCH

REQUIREMENTS FOR THE PROVISIONAL CERTIFICATE ENDORSEMENTS

Endorsements in Generic Special Education, Bilingual Education, and Early Childhood Education are available. Advisement for course selection and sequence is required.

REQUIREMENTS FOR MASTER READING TEACHER CERTIFICATE

Option 1 (Elementary)

- RDNG 5613 Teaching Reading in Elementary Grades
- RDNG 5663 Clinical Experience in Reading
- RDNG 5643 Diagnosis and Correction of Reading Difficulties
- SPED 5233 Language and Communication Disorders
- RDNG 5673 Issues, Problems and Trends in Reading (Capstone Course)

Option 2 (Secondary)

- RDNG 5633 Teaching Reading in Secondary Schools
- RDNG 5663 Clinical Experience in Reading
- RDNG 5643 Diagnosis and Correction of Reading Difficulties
- SPED 5233 Language and Communication Disorders
- RDNG 5673 Issues, Problems and Trends in Reading (Capstone Course)

Option 3 (Special Education)

- RDNG 5613 Teaching Reading in Elementary Education
- RDNG 5663 Clinical Experience in Reading
- RDNG 5643 Diagnosis and Correction of Reading Difficulties or SPEC 5263 Diagnostic and Prescription Techniques for the Exceptional Learner
- SPEC 5233 Language and Communication Disorders
- SPED 5203 Seminar in Special Education (Capstone Course)**

Department of Curriculum and Instruction

ADMINISTRATIVE OFFICER

Constance Person, Department Head, Curriculum and Instruction

FACULTY

Martha Lee Bailey, *Early Childhood Education Coordinator*
 Clarissa Gamble Booker, *Reading Education Coordinator*
 Douglas M. Butler, *Special Education, Diagnostician Coordinator*
 Lettie Irene Duke *Secondary Education, Educational Foundations*
 Judith Hansen, *Instructional Technology, Educational Foundations, Secondary Education*
 Mary S. Hawkins, *Secondary Education, Mathematics Education, Elementary Education*
 Debra Johnson, *Special Education*
 Edward L. Mason, *Educational Research and Statistics*
 M. Paul Mehta, *Curriculum and Instruction*
 Darlington I. Ndubuike, *Curriculum and Instruction, Multicultural Education, Elementary Education*
 Constance Person, *Curriculum and Instruction, Early Childhood Education, Elementary Education*

PURPOSE AND GOALS

The graduate program is designed to develop those advanced competencies in leadership and instruction that will enable individuals to demonstrate analytical processes in the teaching/learning environment and procedures of educational research and its application.

ADMISSION TO PROGRAM

Students desiring admission to the graduate programs in the Department of Curriculum and Instruction must meet the general admission requirements outlined in the catalog section, "Graduate Admissions Requirement." Admission to the graduate study, however, does not constitute admission to a master degree program in the Department of Curriculum and Instruction.

In determining an applicant's eligibility for admission to the Department of Curriculum and Instruction, the following are essential:

1. A baccalaureate degree from an institution accredited by a regional accrediting agency equivalent to the Southern Association of Colleges and Schools;
2. An overall undergraduate grade point average of 2.75 on a 4.0 scale, or the equivalent;
3. Scores on the Graduate Record Examination (GRE); and
4. Three letters of recommendation.

Students who fail to meet the criteria for regular admission may be placed in a non-degree/special or provisional status. Such students are not entitled to pursue a degree in the Department of Curriculum and Instruction until they receive unconditional admission.

Students who fail to satisfy the admission GPA minimum may not enroll in more than six (6) semester hours of graduate work in any one semester or full summer term while attempting to attain unconditional status. A student may not enroll in more than 12 semester hours while in this category.

Students admitted conditionally (non-degree/special or provisional status) when the GPA is less than 2.75 but no less than 2.45 on a 4.0 scale, may attain unconditional status by achieving a 3.0 GPA for the first 12 hours of graduate work.

Students may apply for conditional admission to graduate study (non-degree/special status) when the GPA is less than 2.45 but a minimum of 2.25.

Students may not enroll in more than six (6) semester hours of graduate work per term and may not enroll in more than 12 semester hours while in this category.

Completion of Entrance Requirements

Students enrolled in non-degree/special or provisional status may take no more than 12 semester hours prior to attainment of unconditional admission, and must attain unconditional status within four school terms from the time of their first enrollment (three regular and one summer semester). If unconditional status has not been attained within that time frame; the student will be dismissed from the program. Provisionally admitted students may withdraw from no more than three courses during their initial probationary status. Unconditional admission will require completion of all university requirements.

TRANSFER CREDIT

Either transfer or continuing students may transfer credit from other universities to Prairie View A&M University; however, the grade of "C" will not be accepted for transfer credit. Additional guidelines are indicated below:

- a. Transfer students newly admitted may apply up to six hours of graduate credit earned at another accredited institution to their Prairie View A&M University program. Transfer requests should be made during the first semester of registration at Prairie View A&M University and included in the degree plan along with official transcripts. Work taken at other institutions expires at the end of six years from completion, just as does work completed at Prairie View A&M University.
- b. Continuing students may request transfer of up to six hours of credit from other universities to the programs in the Department of Curriculum and Instruction for substitution for Prairie View courses provided:

1. The official catalog description of the courses and official transcripts are provided to the Department of Curriculum and Instruction for review at least two weeks prior to the final registration day of the semester in which the course is to be taken.
2. The Prairie View A&M University Program Coordinator, within the Department, approves the courses for transfer credit prior to enrollment.
3. Subsequent to completion of the course, the student must have the University where the course was taken furnish the Office of Graduate Programs and the Program Coordinator with either an official course grade report or a transcript that reflects the official grade. (Instructor submissions to the Office of Graduate Programs or the Registrar will not suffice.)
4. The continuing student is in good standing in the Department--unconditionally admitted and with a minimum GPA of 3.0.

REMOVAL OF INCOMPLETES

A graduate student can receive a grade of "I," incomplete, in a course with the privilege of finishing the work before the end of one calendar year from the close of the term in which the grade was earned. The "I" should be removed and replaced with a grade acceptable in the student's degree program if the student is seeking a degree and the "I" is in a course to be counted toward degree completion requirements. If a student does not complete the course requirements within one calendar year; the "I" will change to a grade of "F."

ACADEMIC PERFORMANCE STANDARDS

Students whose semester GPA for courses leading to the Master's degree in the Department of Curriculum and Instruction falls below 3.0 for one semester, and whose overall GPA falls below 3.0, will be placed on probation for one semester. To return to unconditional status, the student must repeat the course(s) and earn a grade of "B" or higher. No grades of "C" are allowed in SPED 5353 and SPED 5263.

Academic Suspension

Academic suspension is an administrative action taken by the Department Head and/or Dean of the College of Education. It bars a student from enrollment in graduate courses for at least one term. Students may request return to the program in a probationary status through written petition to the Department Head and/or Dean, who will refer the request to a committee of graduate faculty for review and recommendation. Students are limited to one suspension.

Probationary Status

A condition in which a student must maintain at least a 3.0 GPA each semester until his/her cumulative GPA reaches 3.0.

The Two-C Rule

Students who earn more than two grades of "C" or below may be dismissed from the program. This applies to courses repeated and to those taken for the first time.

ADVANCEMENT TO CANDIDACY

Admission of an applicant for the Master's degree programs does not constitute advancement to candidacy. Such advancement will be granted upon the completion of at least 12 semester hours of graduate credit with at least a "B" average. The student must submit a formal application for Advancement/Admission to Candidacy, to the Department of Curriculum and Instruction, to the College of Education, to the Graduate School. Failure to complete the Advancement/Admission to Candidacy form may prevent the student from enrolling in program courses in subsequent semesters.

Admission to candidacy cannot be granted unless the conditions for admittance have been satisfied and all appropriate test scores have been placed on file in the Department of Curriculum and Instruction. Admission to candidacy is recommended by the advisor, Department Head and Dean of the College and the Graduate School. The Office of Graduate Programs must approve admission to candidacy. The application for admission to candidacy and the application for graduation may not be filed during the same semester. In general, a minimum of 12 hours must be completed before one can be admitted to candidacy.

CERTIFICATION

Students seeking certification must meet all requirements listed in the catalog section, "Graduate Certification." Specific requirements may be obtained from the Office of Teacher Certification in the College of Education.

MASTER OF SCIENCE IN EDUCATION AND MASTER OF EDUCATION PROGRAM REQUIREMENTS

Common Core.....12 SCH

- CURR 5003 Theory and Dynamics of Curriculum and Instruction
- EDFN 5103 Foundations of Educational Research
- EDFN 5113 Psychology of Learning and Development
- EDFN 5123 Socio-Cultural Issues in Education

Program Concentration12-18 SCH

Students seeking pursuing a reading education or instructional technology concentration must complete 18 SCH of program concentration course credit. Students in all other concentrations must complete 12 SCH of program concentration course credit. Courses must be selected from the following areas:

- Agriculture Education
- Curriculum and Instruction
- Early Childhood Education
- Educational Media and Technology
- Elementary Education
- English Education
- Home Economics Education
- Industrial Education
- Instructional Technology [Instructional Technology Requires 18 semester hours]
- Mathematics Education
- Music Education
- Reading Education [Reading Requires 18 semester hours]
- Science Education
- Special Education

Resource and Research and Requirements.....12 SCH

Master of Science Requirements:

- EDFN 5903 Thesis Research – three (3) semester hours
- Electives: Six (6) semester hours
- Elective: Reading Education three (3) semester hours
- Elective: Instructional Technology concentration three (3) semester hours

Master of Education Requirements:

- EDFN 5923 Master's Seminar – three (3) semester hours
- Electives: Nine (9) semester hours
- Elective: Instructional Technology concentration requires three (3) semester hours
- Elective: Reading concentration three requires (3) semester hours

Total Degree Requirements.....36 SCH

Department of Educational Leadership and Counseling

ADMINISTRATIVE OFFICER

William H. Parker, *Head*

ADMINISTRATIVE STAFF

Michael L. McFrazier, *Coordinator, Principal Certification Program*
Waymon T. Webster, *Coordinator, Counseling Program*

FACULTY

Alma Allen, *Educational Administration*
Pamela Barber-Freeman, *Educational Administration*
Fred Bragg, *Counseling*
Billy Caesar, *Educational Administration*
Lee R. Coleman, *Counseling*
Linda L. Garner, *Educational Administration*
Clement E. Glenn, *Educational Administration*
J.D. Gregory, *Educational Administration*
Marion Henry, *Research*
David Herrington, *Educational Administration*
Ronald Howard, *Counseling*
Wanda Johnson, *Counseling*
Oswell Person, *Educational Administration*
Michael L. McFrazier, *Educational Administration*
Bill Orman, *Educational Administration*
Karen C. Osterholm, *Counseling*
William Ross, *Counseling*
E. Joahanne Thomas-Smith, *Educational Administration*
Willie F. Trotty, *Educational Administration*
Bobbie G. Washington, *Counseling*
F.A. White, *Counseling*

PURPOSE AND GOALS

The Department of Educational Leadership and Counseling offers programs of study leading to the Master of Arts in Counseling, the Master of Science in Counseling and Educational Administration, the Master of Education in Educational Administration, and the Doctor of Philosophy in Educational Leadership.

The instructional program is designed to provide coursework leading to certificates and the Professional Counseling License. Certificates and licenses are awarded by the appropriate state agency following the applicants' completion of all requirements including any applicable examinations.

Doctor of Philosophy in Educational Leadership

The Ph.D. program in Educational Leadership is designed for individuals who wish to develop and improve their abilities to provide the highest level of leadership. The educational objectives of the Ph.D. Program in Educational Leadership are: 1) to meet higher education needs of the state and nation in this rapidly growing area; 2) to educate, train, and prepare individuals who possess the research and methodological skills to initiate, conduct and evaluate independent research; 3) to prepare educated citizens who are both able and willing to meet private leadership and public sector needs of society; and 4) to prepare liberally educated individuals who know how to think, reason, and apply knowledge that will enable them to work and use technology in an ever changing world.

ADMISSION TO PROGRAM

Masters Degree

Students desiring admission to the graduate programs in the Department of Educational Leadership and Counseling must meet the general admission requirements outlined in the catalog section, "Graduate Admissions Requirement." Admission to the graduate study, however, does not constitute admission to a master's degree program in the Department of Educational Leadership and Counseling.

In determining an applicant's eligibility for admission to the Department of Educational Leadership and Counseling, the following are essential:

1. A baccalaureate degree from an institution accredited by a regional accrediting agency equivalent to the Southern Association of Colleges and Schools;
2. An overall undergraduate grade point average of 2.75 on a 4.0 scale, or the equivalent;
3. Scores on the Graduate Record Examination (GRE); and
4. A valid State of Texas Teaching Certificate and proof of three (3) years teaching experience if the student is pursuing the Educational Administration Teaching track.

Students who fail to meet the criteria for admission may be placed in a non-degree/special or provisional status. Such students are not entitled to pursue a degree in the Department of Educational Leadership and Counseling until they receive unconditional admission.

Students who fail to satisfy the admission GPA minimum may not enroll in more than six (6) semester hours of graduate work in any one semester or full summer term while attempting to attain unconditional status. A student may not enroll in more than 12 semester hours while in this category.

Students admitted conditionally (non-degree/special or provisional status) when the GPA is less than 2.75 but no less than 2.45 on a 4.0 scale, may attain unconditional status by achieving the following:

1. A 3.0 GPA for the first 12 hours of graduate work, with no more than one "C";
2. Satisfactory completion of ADMN 5003 - Fundamentals of School Administration, and ADMN 5093, Educational Statistics (Administration); and
3. Satisfactory completion of CNSL 5123 - Appraisal Techniques, and CNSL 5093, Educational Statistics (Counseling).

Students may apply for conditional admission to graduate study (non-degree/special status) when the GPA is less than 2.45 but a minimum of 2.25. In addition to the general application requirements, supplementary requirements under this category are indicated below:

1. Request and pass a departmental interview, and
2. Make a passing score of 260 on the Reading Section of the TASP Examination (only the Reading Section of the TASP Examination must be taken), and maintain at least a "B" (3.0) average in all coursework.

Students may not enroll in more than six (6) semester hours of graduate work per term and may not enroll in more than 12 semester hours while in this category. Students who have completed a total of 12 semester hours, but who have been unsuccessful in scoring 260 or above on the Reading portion of the TASP Examination, will be dismissed from the program.

The Ph.D. Program

Admission Criteria for the Ph.D. Program in Educational Leadership, as established by the Program faculty, are as follows:

Required elements: (In order for an applicant to be considered, all criteria below must be submitted by the semester deadline.)

1. Baccalaureate degree conferred by an accredited institution;
2. A Grade Point Average (GPA) of 2.75, on a four-point scale on all completed undergraduate coursework;
3. Master's degree prior to entering doctoral course work, conferred by an accredited institution;
4. A Grade Point Average (GPA) of 3.2, or higher, on a four-point scale on all completed coursework;
5. Original transcripts, submitted to the Graduate School for all academic work taken at the undergraduate and graduate levels (unofficial copies may be used by the Doctoral Committee in initial screening);
6. Official Graduate Record Examination (GRE) score report, submitted to the Graduate School (an unofficial copy may be used by the Doctoral Committee in initial screening);
7. Three letters of recommendation from persons sufficiently acquainted with the applicant's ability and his or her potential to successfully complete a doctoral program;
8. Original written essay demonstrating strong writing skills that includes the following: autobiography, professional aspirations and achievements and how obtaining the Ph.D. in Educational Leadership will enhance the applicant's ability to affect change in the educational arena; and
9. If a foreign student, submission of official results from the Test of English as a Foreign Language (TOEFL). A score of 600 or higher is mandatory.

Preferences:

1. A minimum of 3 years teaching experience in public or private institutions;
2. A Grade Point Average (GPA) of 3.0, or higher, on four-point scale on all completed undergraduate coursework;
3. Master's degree in Educational leadership/Administration or related fields. A Secondary preference is given to applicants who are certified administrators and have a minimum of 2 years administrative experience;
4. A Grade Point Average (GPA) of 3.5, or higher, on a four-point scale in all completed graduate coursework;
5. Graduate Record Exam (GRE) Verbal and Quantitative scores in the higher percentiles;
6. Demonstrated evidence of scholarly activity that includes: publications, presentations at conferences and grantsmanship;
7. Graduate research methods course (if not taken, course must be completed); and
8. Graduate statistics course (if not taken, course must be completed).

Completion of Entrance Requirements

Students enrolled in non-degree/special or provisional status may take no more than 12 semester hours prior to attainment of unconditional admission, and must attain unconditional status within four semesters from the time of their first enrollment (three regular and one summer semester). If unconditional status has not been attained within that time frame, the student will be dismissed from the program. Provisionally admitted students may withdraw from no more than three courses during their initial probationary status. Unconditional admission will require completion of all university requirements. Discovery of enrollment completed in violation of these requirements may result in permanent bar from enrollment in the Administration/Counseling Program.

TRANSFER CREDIT

Either transfer or continuing students may transfer credit from other universities to Prairie View A&M University; however, the grade of "C" will not be accepted for transfer credit. Additional guidelines are indicated below:

- a. Transfer students newly admitted may apply up to six hours of graduate credit earned at another accredited institution to their Prairie View A&M University program. Transfer requests should be made during the first semester of registration at Prairie View A&M University and included in the degree plan. Work taken at other institutions expires at the end of six years from completion, just as does work completed at Prairie View A&M University.
- b. Continuing students may request transfer of up to six hours of credit from other universities to the Administration/Counseling program for substitution for Prairie View courses provided:
 1. The official catalog description of the courses is furnished to the Department of Educational Leadership and Counseling Coordinator for review at least two weeks prior to the final registration day of the semester in which the course is to be taken.
 2. The Prairie View A&M University Program Coordinator approves the courses for transfer credit prior to enrollment.
 3. Subsequent to completion of the course, the student must have the University where the course was taken furnish the Office of Graduate Programs and the Program Coordinator with either an official course grade report or a transcript that reflects the official grade. (Instructor submissions to the Office of Graduate Programs or the Registrar will not suffice.)
 4. If prior to enrollment in the transfer course, the student has not made a grade of "C" or below in the Prairie View A&M University course which is equivalent to the transfer course.
 5. The continuing student is in good standing in the Department--unconditionally admitted and with a minimum GPA of 3.0.

REMOVAL OF INCOMPLETES

A graduate student can receive a grade of "I", incomplete, in a course with the privilege of finishing the work before the end of one calendar year from the close of the term in which the grade was earned. The "I" should be removed and replaced with a grade acceptable in the student's degree program if the student is seeking a degree and the "I" is in a course to be counted toward degree completion requirements. A student who is unable to satisfy the requirements for removing the "I" in one calendar year may request approval to reenroll in the course and to have the "I" changed to "P" after the student has completed the course with a "C" or better. Credit will be awarded for the last attempt only. A student must re-enroll in the course if it is needed. This regulation does not apply to thesis and research credit courses, but does apply to terminal project credit courses.

ACADEMIC PERFORMANCE STANDARDS

Students whose semester GPA for courses leading to the Master's degree in Administration/Counseling falls below 3.0 for two consecutive semesters, and whose overall GPA falls below 3.0, will be suspended from the program.

Academic Suspension

Academic suspension is an administrative action taken by the Department Head and/or Dean of the College of Education. It bars a student from enrollment in graduate courses for at least one term. Students may request return to the program in a probationary status through written petition to the Department Head and/or Dean, who will refer the request to a committee of graduate faculty for review and recommendation. Students are limited to one suspension.

Probationary Status

A condition in which a student must maintain at least a 3.0 GPA each semester until his/her cumulative GPA reaches 3.0.

The Two-C Rule

Students who earn more than two grades of "C" or below may be dismissed from the program. This applies to courses repeated and to those taken for the first time.

ADVANCEMENT TO CANDIDACY

Admission of an applicant for the Master's degree programs does not constitute advancement to candidacy. Such advancement will be granted upon the completion of at least 12 semester hours of graduate credit with at least a "B" average. The student must submit a formal application, through the Department of Educational Leadership and Counseling/College of Education, to the Office of Graduate Programs. Failure to fulfill this requirement may prevent the student from enrolling the following semester or having credits considered for a degree.

Admission to candidacy cannot be granted unless the conditions for admittance have been satisfied and all appropriate test scores have been placed on file in the Department of Educational Leadership and Counseling. Admission to candidacy is recommended by the Department Head and Dean of the School or College offering the program. The Office of Graduate Programs must approve admission to candidacy. The application for admission to candidacy and the application for graduation may not be filed during the same semester. In general, a minimum of 12 hours must be completed before one can be admitted to candidacy.

COURSE LOAD

The following limitations on course load are in effect:

1. During a regular session, a graduate student may not enroll in more than 12 hours.
2. During a five- or six-week summer session, a graduate student may not enroll in more than six semester hours per session (12 hours total during the entire summer term), except when one course is a four-hour course, in which case the student may enroll in seven hours. The total credit hours earned for the two summer sessions may not exceed fourteen.
3. A graduate student may not enroll in more than three semester credit hours during a three-week summer session.
4. A graduate student enrolled in a three-week session may not enroll in more than one three-hour course in the six-week session being conducted concurrently.
5. This university defines full time enrollment for a graduate student as a minimum of 9 semester credit hours during the regular terms and a minimum of 4 semester credit hours during each summer term.

APPLICATION FOR GRADUATION

An application for graduation may not be filed unless the applicant has:

1. Completed at least twenty-four (24) semester hours of coursework.
2. Earned a 3.0 cumulative Grade Point Average with no more than two "Cs" in graduate courses.
3. Presented written evidence of any course transferred, with grade(s) of "B" or above.
4. Secured formal evaluation of all academic work prior to registration for the final semester.
5. Been admitted to candidacy at least one semester prior to applying for graduation.
6. Taken the GRE.

MASTER OF ARTS, MASTER OF SCIENCE AND MASTER OF EDUCATION DEGREE PROGRAMS

Students seeking certification must meet all requirements listed in the teacher certification section of this catalog. Specific requirements may be obtained from the Office of Teacher Certification in the College of Education.

MASTER OF ARTS IN COUNSELING DEGREE PROGRAM REQUIREMENTS

Common Core	12 SCH
CNSL 5093 Educational Statistics	
CNSL 5123 Appraisal Techniques	
CNSL 5143 Human Growth and Development	
CNSL 5153 Cross-Cultural Issues	
Recommended Program Concentration	18 SCH
CSNL 5013 Counseling Techniques	
CNSL 5023 Counseling Theory and Practice	
CNSL 5053 Professional Orientation	
CNSL 5083 Psychology of Abnormal Behavior	
CNSL 5113 Career Development Counseling	
CNSL 5133 Group Dynamics	
Research	3 SCH
CNSL 5163 Research	
Practicum	3 SCH
Total Degree Requirements	36 SCH

MASTER OF SCIENCE IN COUNSELING DEGREE PROGRAM REQUIREMENTS

Common Core	12 SCH
CNSL 5093 Educational Statistics	
CNSL 5123 Appraisal Techniques	
CNSL 5143 Human Growth and Development	
CNSL 5153 Cross-Cultural Issues	
Recommended Program Concentration	18 SCH
CSNL 5013 Counseling Techniques	
CNSL 5023 Counseling Theory and Practice	
CNSL 5053 Professional Orientation	
CNSL 5083 Psychology of Abnormal Behavior	
CNSL 5113 Career Development Counseling	
CNSL 5133 Group Dynamics	
Research	3 SCH
EDFN 5903 Thesis Research	
Practicum	3 SCH
Total Degree Requirements	36 SCH

MASTER OF EDUCATION IN EDUCATIONAL ADMINISTRATION DEGREE PROGRAM REQUIREMENTS

Common Core	12 SCH
ADMN 5073 School Curriculum Leadership	
ADMN 5093 Educational Statistics	
CNSL 5143 Human Growth and Development	
CNSL 5153 Cross-Cultural Issues	

Recommended Program Concentration21 SCH
 ADMN 5003 Fundamentals of Administration
 ADMN 5023 Public School Law (ADMN 5103 Prerequisite)
 ADMN 5033 School Business Management
 ADMN 5043 The School Principalship (ADMN 5003 Prerequisite)
 SUPV 5113 Principles of Supervision (ADMN 5073 Prerequisite)
 ADMN 5103 School Personnel
 ADMN 5133 School Community Relations

Research3 SCH
 ADMN 5163 Research (ADMN 5093 Prerequisite)

Total Degree Requirements36 SCH

MASTER OF SCIENCE IN EDUCATIONAL ADMINISTRATION DEGREE PROGRAM REQUIREMENTS

Common Core12 SCH
 ADMN 5073 School Curriculum Leadership
 ADMN 5093 Educational Statistics
 CNSL 5143 Human Growth and Development
 CNSL 5153 Cross-Cultural Issues

Recommended Program Concentration21 SCH
 ADMN 5003 Fundamentals of Administration
 ADMN 5023 Public School Law (ADMN 5103 Prerequisite)
 ADMN 5033 School Business Management
 ADMN 5043 The School Principalship (ADMN 5003 Prerequisite)
 SUPV 5113 Principles of Supervision (ADMN 5073 Prerequisite)
 ADMN 5103 School Personnel
 ADMN 5133 School Community Relations

Research3 SCH
 EDFN 5903 Thesis Research

Total Degree Requirements36 SCH

DOCTOR OF PHILOSOPHY IN EDUCATIONAL LEADERSHIP

Students who enter the Educational Leadership Ph.D. Program will be required to complete a minimum of sixty-three (63) credit hours after the Master's degree.

Core Courses18 SCH
 ADMN 7003 Fundamental of Strategic Thinking
 ADMN 7013 Strategic Planning
 ADMN 7023 Organizational Theory
 ADMN 7033 Dynamics of Leadership
 ADMN 7043 Organizational Development and Change
 ADMN 7053 Diversity in Educational Leadership

Concentration Core Hours15 SCH
 Concentration in General Education, Administration and Superintendency
 ADMN 7063 Organizational Behavior in Education
 ADMN 7073 Educational Laws and Policies
 ADMN 7083 Educational Governance
 ADMN 7093 School- Community Relations
 ADMN 7103 Educational Facilities Planning and Management
 ADMN 7123 Ethical Decision making in Educational Leadership
 ADMN 7133 Critical Issues in Educational Leadership
 ADMN 7143 Human Resource Management
 ADMN 7153 Educational Budgeting and Resource Allocation
 ADMN 7163 Special Topics in Educational Leadership
 ADMN 7173 Internship I Observation and Field Experience
 ADMN 7183 Internship II Administrative Applications

Research9 SCH
 The following two courses are required before students are permitted to enroll in doctoral level research courses:
 EDFN 5093 Educational Statistics (3 hours)
 EDFN 5143 Advanced Educational Statistics (3 hours)

The following courses are required for all students:

ADMN 7603 Quantitative Research Design and Analysis
 ADMN 7613 Qualitative Research Design
 ADMN 7623 Advanced Research
 ADMN 8003 Dissertation Seminar
 ADMN 8013 Dissertation

Electives6 SCH
 Each student will select elective courses according to their interest

Internship3-6 SCH
 Through the internship experiences, students will complete a comprehensive set of field-based competencies, which are required for graduation.

Dissertation12 SCH
 ADMN 8013 Dissertation hours
 ADMN 8023 Dissertation hours
 ADMN 8026 Dissertation hours
 ADMN 8033 Dissertation hours
 ADMN 8043 Dissertation hours
 ADMN 8053 Dissertation hours

Total Degree Requirements63

Time Limit
 Students attending full-time should be able to complete the formal doctoral course work within twenty-four months if they attend during both regular session and summer. Students who only enroll full-time during regular semesters require longer than two full years. Each student will be given seven (7) years to complete the doctoral program. Students who earn two "C's" may be dismissed from the doctoral program.

*See Handbook for Additional Information

Department of Health and Human Performance**ADMINISTRATIVE OFFICER**Clifton Gilliard, *Interim Head, Health and Human Performance***FACULTY**

Ronald J. Peters, *Health*
 Kevin B. Simms, *Health and Human Performance*
 Mary V. White, *Health and Human Performance*
 Reuben L. Wright, *Human Performance*

PURPOSE AND GOALS

The programs in the Department of Health and Human Performance are designed to meet the professional needs and interests of students who wish to pursue a Master of Science in Education or a Master of Education, with a concentration in Health and Physical Education. The graduate programs are designed for those students with special interests in the areas of health and physical education.

The master's degree with a concentration in physical education is primarily for teachers, coaches, and school administrators. The curriculum prepares students for advanced teaching and/or administrative endeavors at the elementary or secondary levels.

The master's degree with a concentration in health is primarily for those students who are interested in school health education or working in various health care settings such as hospitals, public and private health and education agencies, or health promotion programs. An internship is required.

MASTER OF SCIENCE IN EDUCATION AND MASTER OF EDUCATION DEGREE PROGRAMS

Students seeking certification must meet all requirements listed in the teacher certification section of this catalog. Specific requirements may be obtained from the Office of Teacher Certification in the College of Education.

Degree Requirements for Applicants without a Baccalaureate Degree in Health and/or Physical Education

Professional students who seek admission to the master's program must meet the same prerequisite and degree requirements as baccalaureate degree students. Students are expected to complete the prerequisite curriculum within two years of the initial admission date.

Prerequisite Required Courses24 SCH

HUPF 1172 Foundations I or HUPF 1272 Foundations II
 HLTH 1023 Human Sexuality
 HLTH 2003 Personal Health and Wellness
 HLTH 3013 Nutrition
 HLTH 3033 Research/Contemp. Issues in Health
 HUPF 1012 Sports Skills I
 HUPF 3033 Movement Act./Elem. Children
 HUPF 1112 Sports Skills II
 HUPF 4073 Research/Human Performance
 HUPF 3023 Applied Anatomy and Kinesiology

Other Degree Requirements36 SCH**Total Degree Requirements56 SCH****Internship/Practicum in Health and Human Performance**

The internship is an integral part of the instructional program in the Health/Physical Education/Community curriculum. The experience is designed to enhance the understanding and application of knowledge and research findings to public health and wellness or physical fitness settings by providing an opportunity to gain practical experience, at an appropriate level and content, in the community/public health field. All students in the health and physical education/community focus area are required to complete a minimum of two hundred hours of an internship/practicum experience. Further information regarding the internship/practicum will be provided upon matriculation by the Department of Health and Human Performance.

Thesis

For the capstone of their educational experience, students in the department are expected to conduct an original piece of publishable research and/or contribute to the knowledge base of behavioral sciences and health education. Theses are written under the supervision of individual faculty members. Research topics and support for studies are provided by health agencies and organizations in the area.

MASTER OF SCIENCE IN EDUCATION PHYSICAL EDUCATION CONCENTRATION REQUIREMENTS**Common Core12 SCH**

PHED 5133 Physical Education Curriculum
 EDFN 5103 Foundations of Educational Research
 EDFN 5113 Psychology of Learning and Development
 EDFN 5123 Socio-Cultural Issues in Education

Program Concentration12 SCH

PHED 5143 Sociology of Sport
 PHED 5303 Tests and Measurements in Health and Physical Education
 PHED 5503 Teaching Physical Education
 PHED 5123 Scientific Foundations of Physical Education or PHED 5703 Kinesiology

Research and Resource6 SCH

EDFN 5143 Advanced Educational Statistics
 EDFN 5903 Thesis Research or HLTH 5993 Independent Study

Electives6 SCH

Select from:

PHED 5103 Psychology of Motor Learning3 SCH
 PHED 5113 Supervision in Physical Education3 SCH
 PHED 5203 Physiology of Muscular Exercises3 SCH
 PHED 5343 Professional Preparation in Health, Physical Education, Recreation and Dance3 SCH
 PHED 5353 Mainstreaming in Health, Physical Education, Recreation and Dance3 SCH
 PHED 5403 Administrative Problems in Health and Physical Education3 SCH
 HLTH 5043 Alcohol and Drugs3 SCH
 HLTH 5073 Epidemiology and Diseases3 SCH
 HLTH 5133 Seminar - Selected Topics3 SCH
 HLTH 5143 Medical Foundations for Health Professions3 SCH
 HLTH 5183 Contemporary Health3 SCH

Total Degree Requirements36 SCH**MASTER OF EDUCATION PHYSICAL EDUCATION CONCENTRATION REQUIREMENTS**

Common Core	12 SCH
PHED 5133 Physical Education Curriculum	
EDFN 5103 Foundations of Educational Research	
EDFN 5113 Psychology of Learning and Development	
EDFN 5123 Socio-Cultural Issues in Education	
Program Concentration	12 SCH
PHED 5143 Sociology of Sport	
PHED 5303 Tests and Measurements in Health and Physical Education	
PHED 5503 Teaching Physical Education	
PHED 5123 Scientific Foundations of Physical Education or PHED 5703 Kinesiology	
Research and Resource	3 SCH
EDFN 5923 Master's Seminar	
Electives	9 SCH
Select from:	
PHED 5103 Psychology of Motor Learning	3 SCH
PHED 5113 Supervision in Physical Education.....	3 SCH
PHED 5203 Physiology of Muscular Exercises	3 SCH
PHED 5403 Administrative Problems in Health and Physical Education.....	3 SCH
PHED 5343 Professional Preparation in Health, Physical Education, Recreation and Dance	3 SCH
PHED 5353 Mainstreaming in Health, Physical Education, Recreation and Dance	3 SCH
HLTH 5043 Alcohol and Drugs.....	3 SCH
HLTH 5073 Epidemiology and Diseases	3 SCH
HLTH 5133 Seminar - Selected Topics	3 SCH
HLTH 5143 Medical Foundations for Health Professions.....	3 SCH
HLTH 5183 Contemporary Health.....	3 SCH
Total Degree Requirements	36 SCH

MASTER OF SCIENCE IN EDUCATION HEALTH CONCENTRATION REQUIREMENTS

Common Core	12 SCH
PHED 5133 Physical Education Curriculum	
EDFN 5103 Foundations of Educational Research	
EDFN 5113 Psychology of Learning and Development	
EDFN 5123 Socio-Cultural Issues in Education	
Program Concentration	12 SCH
HLTH 5063 Human Behavior and Health Education	
HLTH 5173 Nutrition and Environment	
HLTH 5193 Community Health	
PHED 5303 Tests and Measurements in Health and Physical Education	
Research and Resource	6 SCH
EDFN 5143 Advanced Educational Statistics	
EDFN 5903 Thesis Research or HLTH 5993 Independent Study	
Physical Education Electives	3 SCH
Select from:	
PHED 5103 Psychology of Motor Learning	3 SCH
PHED 5113 Supervision in Physical Education.....	3 SCH
PHED 5203 Physiology of Muscular Exercises	3 SCH
PHED 5343 Professional Preparation in Health, Physical Education, Recreation and Dance	3 SCH
PHED 5353 Mainstreaming in Health, Physical Education, Recreation and Dance	3 SCH
PHED 5403 Administrative Problems in Health and Physical Education.....	3 SCH

Health Electives	3 SCH
Select from:	
HLTH 5043 Alcohol and Drugs.....	3 SCH
HLTH 5073 Epidemiology and Diseases	3 SCH
HLTH 5133 Seminar - Selected Topics	3 SCH
HLTH 5143 Medical Foundations for Health Professions.....	3 SCH
HLTH 5183 Contemporary Health.....	3 SCH
HLED 5033 Community Planning for Health.....	3 SCH
HLED 5073 Health Care of Children.....	3 SCH
Internship/Practicum Requirement for Community Focus Only	6 SCH
Total Degree Requirements	36-42 SCH

MASTER OF EDUCATION HEALTH CONCENTRATION REQUIREMENTS

Common Core	12 SCH
PHED 5133 Physical Education Curriculum	
EDFN 5103 Foundations of Educational Research	
EDFN 5113 Psychology of Learning and Development	
EDFN 5123 Socio-Cultural Issues in Education	
Program Concentration	12 SCH
HLTH 5063 Human Behavior and Health Education	
HLTH 5173 Nutrition and Environment	
HLTH 5193 Community Health	
PHED 5303 Tests and Measurements in Health and Physical Education	
Research and Resource	6 SCH
EDFN 5143 Advanced Educational Statistics	
EDFN 5923 Master's Seminar or HLTH 5993 Independent Study	
Electives	6 SCH
Select from:	
HLTH 5183 Contemporary Health.....	3 SCH
HLTH 5043 Alcohol and Drugs.....	3 SCH
HLTH 5073 Epidemiology and Diseases	3 SCH
HLTH 5133 Seminar - Selected Topics	3 SCH
HLTH 5143 Medical Foundations for Health Professions.....	3 SCH
PHED 5103 Psychology of Motor Learning	3 SCH
PHED 5113 Supervision in Physical Education.....	3 SCH
PHED 5203 Physiology of Muscular Exercise.....	3 SCH
PHED 5343 Professional Preparation in HPERD	3 SCH
PHED 5353 Mainstreaming in HPERD	3 SCH
PHED 5403 Administrative Problems in Health and Physical Education.....	3 SCH
HLED 5033 Community Planning for Health.....	3 SCH
HLED 5073 Health Care of Children.....	3 SCH
Total Degree Requirements	36 SCH

College of Engineering**ADMINISTRATIVE OFFICER**Milton R. Bryant, *Dean***ADMINISTRATIVE STAFF**Shield B. Lin, *Associate Dean***FACULTY**

Cajetan M. Akujuobi, *Electrical Engineering*
 John Okyere Attia, *Electrical Engineering*
 Paul O. Biney, *Mechanical Engineering*
 Ronald D. Boyd, *Mechanical Engineering*
 Ing Chang, *Mechanical Engineering*
 Kamel H. Fotouh, *Chemical Engineering*
 John H. Fuller, *Electrical Engineering*
 Jorge F. Gabitto, *Chemical Engineering*
 Michael Gyamerah, *Chemical Engineering*
 Ziaul Huque, *Mechanical Engineering*
 Kelvin K. Kirby, *Electrical Engineering*
 Siew T. Koay, *Electrical Engineering*
 Robert Lacovara, *Electrical Engineering*
 Raghava R. Kommalapati, *Civil Engineering*
 Anil A. Kumar, *Electrical Engineering*
 Shield B. Lin, *Mechanical Engineering*
 Kent Martin, *Computer Science*
 Houshang Masudi, *Mechanical Engineering*
 James O. Morgan, *Mechanical Engineering*
 Irvin W. Osborne-Lee, *Chemical Engineering*
 Kwang Paick, *Computer Science*
 Ramalingam Radhakrishnan, *Civil Engineering*
 K.M.A. Rahman, *Civil Engineering*
 Gerald Rambally, *Computer Science*
 Matthew Sadiku, *Electrical Engineering*
 Charlie L. Tolliver, *Electrical Engineering*
 Dhadesugoor R. Vaman, *Electrical Engineering*
 Richard T. Wilkins, *Electrical Engineering*
 Shuguang Yan, *Computer Science*
 Feng-Jen Yang, *Computer Science*
 Yonggao Yang, *Computer Science*
 Hsiang Y. Yeh, *Civil Engineering*
 Yukong Zhang, *Computer Science*
 Jianren Zhou, *Mechanical Engineering*

PURPOSE AND GOALS

The graduate Engineering programs are designed to enhance the student's research capabilities and to make the student more competitive in the professional practice of engineering. They are the continuation of the intellectual, scholarly and professional development of the individual producing technological leaders and creative engineers devoted to the discovery, development, and refinement of knowledge and methodologies associated with the various engineering disciplines. Each degree candidate is expected to have demonstrated the highest degree of professional ethics and standards. The College of Engineering provides excellent facilities in support of its graduate programs.

INSTRUCTIONAL ORGANIZATION

The College of Engineering offers the following graduate degree programs:

Programs	Degree Offered
<i>Computer Information Systems</i>	M.S.C.I.S.
<i>Computer Science</i>	M.S.C.S.
<i>Engineering</i>	M.S.ENGR.
<i>Electrical Engineering</i>	M.S.E.E.
<i>Electrical Engineering</i>	Ph.D.

SUPPORTING FACILITIES**Chemical Engineering**

The Chemical Engineering Department has research facilities available in the areas of Environmental, Transport Processes, Chemical Conversion, Bioengineering, and general purpose laboratories.

Civil Engineering

The Civil Engineering Department has a Dynamic and Cyclic Loading Equipment Laboratory, Materials Testing Laboratory, and Environmental Laboratory.

Computer Science

The Computer Science Department has a variety of computing facilities, including three MS Windows-based PC labs, a LINUX lab, and a HP UNIX lab.

Electrical Engineering

Research facilities are available in the Advanced Solid State Laboratory, the Power Laboratory, Logic and Digital Design Laboratory, Electronic Laboratory, Analog and Mixed Signal Testing Laboratory, Broadband Communication Laboratory, Digital Signal Processing Laboratory, and General Communication Laboratory. Additional research laboratories exist in the Center for Applied Radiation Research (CARR).

Mechanical Engineering

Research facilities are available in the Thermal Science Research Center, the Future Aerospace Science and Technology Center (FAST) on Lightweight Structural Materials and Processing, Material Testing and Characterization lab, Surface Coating facilities, the Computational Fluid Dynamics Institute, and Computer-Aided Design and Manufacturing facilities.

Environmental Engineering

Research facilities are available in Chemical Engineering and Civil Engineering.

ADMISSION TO PROGRAMS**Master's Programs**

The following are admission requirements to the master's programs in the College of Engineering. Students will be awarded graduate degree status admission if they satisfy all the admission requirements.

- 1) Meet the requirements for admission to the graduate school.
- 2) Have an undergraduate degree from an ABET (or equivalent) accredited program.
- 3) Have a cumulative Grade Point Average (GPA) of 3.00 on a 4.00 scale.
- 4) Have a minimum GRE General Test score of 900 (combined verbal and quantitative).
- 5) Have previous educational background in the intended area of study.

Students may be awarded provisional graduate degree status admission if they satisfy the following requirements.

- 1) Have a minimum cumulative Grade Point Average (GPA) of 2.75 on a 4.00 scale.
- 2) Have a minimum GRE General Test score of 700 (combined verbal and quantitative).

Provisional students must petition the Dean of Engineering for full status to the graduate program during the term in which the first 12 graduate semester credit hours will be completed. To be considered for full degree status provisional students must have earned a minimum GPA of 3.0 in all courses recommended by the faculty advisor and the head of the graduate program.

Students may be awarded non-degree status admission or special student status admission if they satisfy the requirements as outlined in the catalog section "Types of Admission" under Admissions Information and Requirements. Special students must petition the Dean of Engineering for full status to the graduate program during the term in which the first 12 graduate semester credit hours will be completed. To be considered for full degree status, special students must have earned a minimum GPA of 3.0 and have a minimum GRE General Test score of 700 (combined verbal and quantitative).

Doctoral Program

The following are admission requirements to the Doctor of Philosophy program in the Department of Electrical Engineering:

1. Hold a baccalaureate degree in engineering, mathematics or the physical sciences conferred by a regionally accredited institution.
2. Have a 3.0 Grade Point Average (GPA) on a four-point scale on all completed undergraduate course work.
3. Hold a Masters of Science degree in Electrical Engineering or one of the related disciplines and a regionally accredited institution should confer the degree.
4. Have a 3.2 GPA on all completed graduate work.
5. Produce original transcripts for all academic work completed at the undergraduate and graduate levels.
6. Have a minimum score of 500 in verbal section, 600 in quantitative section of the Graduate Record Examination (GRE).
7. Submit three letters of recommendation. These should preferably come from faculty sufficiently acquainted with the student to comment on the student's potential to successfully complete the doctoral program.
8. Submit a personal statement describing the applicant's academic or professional accomplishments, research interest and professional goals.
9. Foreign students are required to take the Test of English as a Foreign Language (TOEFL), a score of 550, or higher, is required.

MASTER OF SCIENCE IN ENGINEERING DEGREE PROGRAM

The Master of Science Degree in Engineering is a general engineering program with four areas of concentration:

Chemical Engineering,
Civil Engineering,
Environmental Engineering, and
Mechanical Engineering.

Each area of concentration has an option of a thesis or non-thesis degree plan. The thesis option requires 30 semester credit hours including 6 semester credit hours for the thesis and the "zero semester hour" for a research seminar. The non-thesis option requires 33 semester credit hours including 3 semester hours for a major project and the "zero semester hour" for a research seminar. Each option includes 12 semester credit hours of graduate courses in general engineering with the remaining hours to be determined by the student and his academic advisor during the first semester of acceptance to the graduate program as a degree status student.

During the first semester of graduate degree status, the student should select an advisory committee consisting of at least three members, two of whom must come from the engineering faculty, and the chairman of the committee who shall be a full member of the graduate faculty in engineering.

THESIS OPTION DEGREE PROGRAM REQUIREMENTS

General Requirements 6 SCH
GNEG 5086 Thesis

***General Engineering Requirements** 12 SCH
GNEG 5063 Engineering Analysis I
GNEG 5073 Engineering Analysis II
GNEG 5033 Engineering Probability and Statistics
GNEG 5133 Numerical Methods in Engineering
GNEG 5023 Operations Research
GNEG 5193 Special Topics

Technical Electives 12 SCH
Selection based on consent of student's academic advisor.

Total Degree Requirements 30 SCH

* The student must consult his/her academic advisor and take at least two courses in GNEG 5063, 5073, 5033, 5133 or 5023.

NON-THESIS OPTION DEGREE PROGRAM REQUIREMENTS

General Requirements3 SCH
 GNEG 5303 Graduate Project
 or
 GNEG 5203 Graduate Internship

***General Engineering Requirements**12 SCH
 GNEG 5063 Engineering Analysis I
 GNEG 5073 Engineering Analysis II
 GNEG 5033 Engineering Probability and Statistics
 GNEG 5133 Numerical Methods in Engineering
 GNEG 5023 Operations Research
 GNEG 5193 Special Topics

Technical Electives18 SCH
 Selection based on consent of student's academic advisor.

Total Degree Requirements33 SCH

* The student must consult his/her academic advisor and take at least two courses in GNEG 5063, 5073, 5033, 5133 or 5023.

Department of Computer Science**ADMINISTRATIVE OFFICER**

J.D. Oliver, *Interim Department Head*

FACULTY

Kent Martin, *Artificial Intelligence*
 Kwang Paick, *Information Theory and Pattern Recognition*
 Gerard Rambally, *Database Management Systems*
 Shuguang Yan, *Computer Networks*
 Feng-Jen Yang, *Artificial Intelligence*
 Yonggao Yang, *Graphics and Computer Networks*
 Yukong Zhang, *Compiler Optimization and Software Engineering*

PURPOSE AND GOALS

The Master's degree programs prepare graduate students for positions in business, industry, and research. They produce professionals capable of contributing to the core areas of Computer Information Systems and Computer Science. They also provide Master's degree graduates with a foundation for continuing their study at the doctoral level.

More specifically the major objectives of the programs are to:

1. Address the critical shortage of professionals in Computer Science and Information Technology in Texas and the nation;
2. Provide an avenue for computer professionals in industry to upgrade their professional skills; and
3. Prepare graduates to pursue the terminal degree in Computer Science and Computer Information Systems.

MASTER OF SCIENCE IN COMPUTER INFORMATION SYSTEMS DEGREE PROGRAM REQUIREMENTS**THESIS OPTION DEGREE PROGRAM REQUIREMENTS**

General Requirements6 SCH
 CINS 5906 Master's Thesis

Computer Information Systems Requirements21 SCH
 CINS 5003 Research Methods and Graduate Seminars
 CINS 5013 Information Resources Management
 CINS 5033 Database Management Systems
 CINS 5043 Data Communications and Computer Networks
 CINS 5063 Data Structures and Algorithms
 CINS 5073 Information Technology
 CINS 5183 Software Engineering

Computer Information Systems Track Requirements9 SCH
 Students are required to declare one of the tracks listed below and take the requirements under that track.

General Computer Information Systems Track
 9 hours from the list of CINS Electives (no duplicates)

Internet Technologies Computer Information Systems Track

6 hours from the list of IT CINS Electives
3 hours from the list of CINS Electives (no duplicates)

Total Degree Requirements36 SCH

NON-THESIS OPTION DEGREE PROGRAM REQUIREMENTS

General Requirements3 SCH
CINS 5913 Master's Project

Computer Information Systems Requirements21 SCH
CINS 5003 Research Methods and Graduate Seminars
CINS 5013 Information Resources Management
CINS 5033 Database Management Systems
CINS 5043 Data Communications and Computer Networks
CINS 5063 Data Structures and Algorithms
CINS 5073 Information Technology
CINS 5183 Software Engineering

Computer Information Systems Track Requirements12 SCH
Students are required to declare one of the tracks listed below and take the requirements under that track.

General Computer Information Systems Track
12 hours from the list of CINS Electives (no duplicates)

Internet Technologies Computer Information Systems Track
6 hours from the list of IT CINS Electives
6 hours from the list of CINS Electives (no duplicates)

Total Degree Requirements36 SCH

General CINS Electives

CINS 5103 Decision Support Systems
CINS 5143 Advanced Database Management Systems
CINS 5173 Information Storage and Retrieval
CINS 5213 Advanced Data Communication and Computer Networks
CINS 5223 Artificial Intelligence and Expert Systems
CINS 5233 Distributive Computing and Parallel Processing
CINS 5303 E-Commerce
CINS 5323 Multimedia Applications
CINS 5333 Reverse Logistics
CINS 5413 Object Oriented Analysis and Design
CINS 5463 Human Computer Interaction and Interface Design
CINS 5983 Special Topics in Computer Information Systems
CINS 5993 Independent Study

IT CINS Electives

CINS 5143 Advanced Database Management Systems
CINS 5173 Information Storage and Retrieval
CINS 5303 E-Commerce
CINS 5323 Multimedia Applications

MASTER OF SCIENCE IN COMPUTER SCIENCE DEGREE PROGRAM REQUIREMENTS**THESIS OPTION DEGREE PROGRAM REQUIREMENTS**

General Requirements6 SCH
COMP 5906 Master's Thesis

Computer Science Requirements21 SCH
COMP 5003 Research Methods and Graduate Seminars
COMP 5113 Fundamentals and Concepts of Programming
COMP 5123 Advanced Computer Architecture
COMP 5133 Advanced Operating Systems
COMP 5143 Advanced Database Management Systems
COMP 5153 Design and Analysis of Algorithms
COMP 5423 Software Engineering Processes

Computer Science Track Requirements9 SCH
Students are required to declare one of the tracks listed below and take the requirements under that track.

General Computer Science Track

9 hours from the list of Computer Science Electives (no duplicates)

Software Engineering Track

6 hours from the list of Software Engineering Electives
3 hours from the list of Computer Science Electives (no duplicates)

Total Degree Requirements36 SCH

NON-THESIS OPTION DEGREE PROGRAM REQUIREMENTS

General Requirements3 SCH
COMP 5913 Master's Project

Computer Science Requirements21 SCH
COMP 5003 Research Methods and Graduate Seminars
COMP 5113 Fundamentals and Concepts of Programming
COMP 5123 Advanced Computer Architecture
COMP 5133 Advanced Operating Systems
COMP 5143 Advanced Database Management Systems
COMP 5153 Design and Analysis of Algorithms
COMP 5423 Software Engineering Processes

Computer Science Track Requirements12 SCH
Students are required to declare one of the tracks listed below and take the requirements under that track.

General Computer Science Track

12 hours from the list of Computer Science Electives (no duplicates)

Software Engineering Track

6 hours from the list of Software Engineering Electives
6 hours from the list of Computer Science Electives (no duplicates)

Total Degree Requirements36 SCH

General Computer Science Electives

COMP 5183 Software Engineering
 COMP 5213 Advanced Data Communications and Computer Networks
 COMP 5223 Artificial Intelligence and Expert Systems
 COMP 5233 Distributed Computing and Parallel Processing
 COMP 5243 Numerical Analysis
 COMP 5253 Theory of Computation
 COMP 5263 Advanced Computer Graphics
 COMP 5413 Object-Oriented Analysis and Design Methodology
 COMP 5433 Software Project Planning and Management
 COMP 5443 Advanced Software Quality Assurance
 COMP 5463 Human Computer Interaction and Interface Design
 COMP 5983 Special Topics in Computer Science
 COMP 5993 Independent Study

Software Engineering Electives

COMP 5183 Software Engineering
 COMP 5433 Software Project Planning and Management
 COMP 5443 Advanced Software Quality Assurance
 COMP 5463 Human Computer Interaction and Interface Design

Department of Electrical Engineering**ADMINISTRATIVE OFFICER**

John O. Attia, *Department Head*

FACULTY

Cajetan Akujuobi, *Electrical Engineering*
 John H. Fuller, *Electrical Engineering*
 Kelvin K. Kirby, *Electrical Engineering*
 Siew T. Koay, *Electrical Engineering*
 A. Anil Kumar, *Electrical Engineering*
 Robert Lacovara, *Electrical Engineering*
 Matthew Sadiku, *Electrical Engineering*
 Charlie L. Tolliver, *Electrical Engineering*
 Dhadesugoor R. Vaman, *Electrical Engineering*
 Richard Wilkins, *Electrical Engineering*

PURPOSE AND GOALS

The primary purpose of the Electrical Engineering Program is to enhance students' skills in specialized areas and provide opportunities for students to pursue careers in private industry, government research laboratories and design facilities.

The objectives of the program are:

1. To produce graduate students who have advanced training in one of the following areas of emphasis in Electrical Engineering: (i) Microelectronics, (ii) Computer Engineering, (iii) Telecommunications and Signal processing.
2. To produce a significant number of graduates with experience in research.
3. To prepare outstanding students to pursue doctoral degrees.
4. To produce post-graduates who have the technical, cognitive and interpersonal skills that will allow them to secure employment within the State of Texas, or in the nation.

MASTER OF SCIENCE IN ELECTRICAL ENGINEERING DEGREE PROGRAM REQUIREMENTS**THESIS OPTION DEGREE PROGRAM REQUIREMENTS**

General Requirements 6 SCH
 ELEG 5996 Thesis

General Engineering Requirements 6 SCH
 GNEG 5033 Engineering Probability and Statistics
 GNEG 5063 Engineering Analysis I
 GNEG 5073 Engineering Analysis II
 GNEG 5133 Numerical Methods in Engineering

Electrical Engineering Track Requirements 6 SCH
 Students are required to declare one of the tracks listed and take two courses under that track.

Technical Electives 12 SCH

At least two technical electives must be taken in the Electrical Engineering department.
Total Degree Requirements30 SCH

NON-THESIS OPTION DEGREE PROGRAM REQUIREMENTS

Masters Project.....3 SCH
 ELEG 5913 Engineering Project6 SCH

General Engineering Requirements9 SCH
 GNEG 5063 Engineering Analysis I
 GNEG 5073 Engineering Analysis II
 GNEG 5133 Numerical Methods in Engineering
 GNEG 5033 Engineering Probability and Statistics

Electrical Engineering Track Requirements15 SCH
 Students are required to declare one of the tracks listed and take two courses under that track.

Technical Electives33 SCH
 At least two technical electives must be taken in the Electrical Engineering department.

Total Degree Requirements33 SCH

Courses for Electrical Engineering Tracks

(A) Computer Engineering Track

- ELEG 6103 Advanced Computer Systems Design
- ELEG 6113 Computer Architecture & Advanced Logic Design
- ELEG 6123 The Internet: Design and Implementation
- ELEG 6133 Fault Tolerant Computing
- ELEG 6143 Modeling and Performance of Computer Architectures
- ELEG 6153 Information Networks

(B) Communication and Signal Processing Track

- ELEG 6203 Wireless Networks
- ELEG 6213 Digital Communications
- ELEG 6223 Network Management
- ELEG 6243 Advanced Broadband Communications Systems
- ELEG 6313 Stochastic Processes
- ELEG 6323 DSP Hardware Systems Design
- ELEG 6333 Wavelets and Their Applications
- ELEG 6353 Advanced Digital Signal Processing

(C) Microelectronics Track

- ELEG 6403 Solid State Devices
- ELEG 6413 Integrated Circuits Fabrication
- ELEG 6423 VLSI and ULSI Design
- ELEG 6433 Semiconductor Devices
- ELEG 6543 Advanced Solid State
- ELEG 6553 Advanced Mixed Signal

Other Technical Electives

- GNEG 5193-001 Special Topics – Advanced Heat Transfer
- GNEG 5193-003 Special Topics – Dynamics of Mechanical Systems
- GNEG 5193-015 Special Topics – Modern Control Systems
- GNEG 5193-019 Special Topics – Advanced Analytic Basis Design
- GNEG 5193-172 Special Topics - Environmental Modeling
- GNEG 5193-175 Special Topics – Water Quality Management
- GNEG 5193-179 Special Topics – Management of Engineering Projects
- MCEG 5023 Advanced Thermodynamics
- MCEG 5123 Advanced Computer Aided Engineering Design
- CVEG 5123 Structured Dynamics
- CVEG 5133 Advanced Mechanics of Materials
- MATH 5033 Complex Analysis II
- MATH 5343 Boundary Value Problem
- MATH 5613 Theory of Matrices
- MATH 5723 Partial Differential Equations
- MATH 5773 Advanced Analysis
- MATH 5903 Modern Algebra

DOCTOR OF PHILOSOPHY IN ELECTRICAL ENGINEERING DEGREE PROGRAM

PURPOSE AND GOALS

The Doctor of Philosophy program in Electrical Engineering is designed to prepare students to be scholars, to develop the students' capacities to understand issues and problems at the frontiers of knowledge and to make significant contributions to that knowledge. The Ph.D. program's overall educational goals are to provide doctoral training in Electrical Engineering research, to develop new knowledge in engineering, and to disseminate the knowledge gained.

The educational objectives of the Ph.D. in Electrical Engineering program are

- (i) to produce competent engineering researchers who can communicate new and innovative research findings to engineers and scientists,
- (ii) to train engineers who are well versed in the general body of knowledge in Electrical Engineering,
- (iii) to produce researchers with specialized knowledge in Electrical Engineering, and
- (iv) to increase the number of Electrical Engineering doctorates.

PROGRAM REQUIREMENTS

The minimum required coursework beyond the Master's degree is 53 semester credit hours (SCH). This credit hour requirement includes coursework prescribed for students in support of area of concentration (9 SCH), free electives in support of doctoral dissertation and specialization (15 SCH), doctoral research (12 SCH), dissertation (12 SCH), stochastic process course (3 SCH) and graduate seminars (2 SCH). Courses taken during a master's degree program may not be repeated for credit at the doctoral level

Student Advisement and Supervision

The Electrical Engineering Graduate Program Administrator will serve as the Graduate Advisor of each student upon admission into the Ph.D. program. Before the student completes nine hours of doctoral class work, the student will be required to choose a chairperson of the student's Ph.D. Advisory committee. The student will select the members of the student's Ph.D. committee in consultation with the Graduate Program Administrator and the chairperson of the student Ph.D. committee. The chair of the individual doctoral student's committee is responsible for advising that student for courses taken beyond the first nine credit hours.

Doctoral Advisory Committee

The Graduate Program Administrator will assist the graduate student in securing an Academic Advisor, who will act as the Chair of the Doctoral Advisory Committee and will be responsible for advising and supervising the student. Before the qualifying examination, the Chair of the Doctoral Advisory Committee and the Graduate Program Administrator will select the Doctoral Advisory Committee, consisting of five graduate faculty members. One member of the doctoral Advisory committee will be chosen from outside the department of Electrical Engineering. The choice of the outside faculty members will be based on the individual student needs and the selected dissertation topic. As soon as a student's program has been determined, the Graduate Program Administrator will recommend the Doctoral Advisory Committee to the Dean of the College of Engineering for approval. The Dean of the College of Engineering may change the Chair of the Doctoral Advisory committee upon request of the doctoral student.

The Doctoral Advisory Committee and the Graduate Program Administrator will develop a tentative timetable for completion of all requirements for the degree program; monitor the student's coursework and research; provide advice and feedback to the student; file an Annual Report of the student's progress with the Office of the Dean of the College of Engineering; approve a research topic; supervise the preparation of the research project; uphold the standards of the College and the University; inform the Dean of the College of Engineering, in writing, if a student's performance is inadequate and provide relevant advisory committee recommendations; and formulate and conduct the preliminary and qualifying examinations. The student's Advisory Committee Chair acts as head of the Doctoral Advisory Committee and takes the lead in completing these duties.

Graduate Plan of Study

Each doctoral student will be required to file a Graduate Study Plan (GSP) with the College of Engineering before completing 18 semester hours of course work. The GSP outlines the curriculum of study and a timetable to be followed by the doctoral student in meeting the graduate degree requirements. The student prepares the GSP in consultation with the Doctoral Advisory Committee.

Preliminary Examination

When the student has completed 9 semester hours of coursework in the doctoral program, he or she will be required to take a preliminary examination. The preliminary examination will be taken at the beginning of the second semester of the student's doctoral program. The preliminary examination will be a written test of knowledge in at least three areas of electrical engineering. The student will choose from the following areas: Microelectronics, Computer Engineering, Power Engineering, Control Systems, Communications and Signal Processing. The preliminary examination will be prepared and administered by the Graduate Program Administrator and the student's Doctoral Advisory Committee. Students failing any portion of the preliminary examinations must consult with the Graduate Program Administrator to determine the steps to be taken. Two consecutive failures on the examination will result in the student's dismissal from the Ph.D. program.

Qualifying Examination

A doctoral student will be required to successfully pass a qualifying examination. The qualifying examination consists of a research proposal and an oral examination on the student's area of research. The doctoral student must take a qualifying examination by the time he or she has completed 36 semester hours of coursework. The qualifying examination will be prepared and administered by the Graduate Program Administrator and the student's Doctoral Advisory Committee.

The student must pass either unconditionally or conditionally. A conditional pass indicates specific weaknesses in the student's background that must be remedied before degree requirements are completed. All remedies should be completed within a year after the first attempt at passing the Qualifying examination. Two consecutive failures on the examination will result in the student's dismissal from the Ph.D. program. The Graduate Program Administrator will recommend the doctoral students who pass the qualifying examinations to the Dean of the College of Engineering for admission to candidacy.

Advancement to Candidacy

Following successful completion of the qualifying examinations, it is the student's responsibility to petition for advancement to candidacy. To be advanced to candidacy, students must have completed all of the following requirements and/or procedures:

1. Achieved a cumulative grade-point average of 3.0 or above in program course work.
2. Successfully passed the preliminary examination.
3. Successfully passed the qualifying examination.

The doctoral student is required to submit the application for advancement to candidacy at least one semester before the doctoral degree is awarded. The admission to graduate study does not imply "advancement to candidacy" for the doctoral degree.

Doctoral Dissertation

Successful completion of the doctoral dissertation is required. Every doctoral student would be required to pass an oral defense of the dissertation project. Two attempts at passing the dissertation defense are permitted. Failure to pass the dissertation defense will result in the student's dismissal from the program.

Having met other requirement for the degree, students who successfully defend their dissertations and complete the submission process will be granted the degree of Doctor of Philosophy in Electrical Engineering. The determination of completion requirements for the Doctor of Philosophy degree in Electrical Engineering is solely the province of the program faculty.

The dissertation will not be recommended for final submission to the Dean of the College of Engineering until it has been successfully defended and approved by at least four members of the student's Doctoral Advisory Committee.

Transfer of Graduate Courses from Other Universities

A maximum of six (6) units of electrical engineering related course work may be transferred from other accredited universities. A minimum grade of "B" is required in any such courses. Transfer credit is granted by petition to, and approval by, the Doctoral Advisory Committee, with final approval by the Dean of the College of Engineering. It is the student's responsibility to initiate the petition and justify the acceptance of the course. Courses presented for transfer credit must be the equivalent of courses in the doctoral program.

Special Requirements: Residency and Refereed Papers

Every doctoral student will be required to complete, on campus, at least nine (9) months of graduate study beyond the master's degree. The residence requirement is fulfilled through completion of a full schedule (at least 9 semester hours) of graduate course work in each of two consecutive semesters (excluding summer months).

Each candidate is required to have submitted at least two papers for publication in refereed journals. The candidate should be the first author of the one of the papers submitted for publication. The papers should be based on results of the candidate's doctoral research.

Good Standing

Ph.D. students remain in good standing when they maintain a minimum cumulative GPA of 3.0 for graded courses in the doctoral program. Only grades of "B" or better count toward required course work of the program. Any grade lower than "B" in a required course will necessitate that the course be retaken and passed with a grade of "B" or higher. If a second grade of C or less is earned, the student will be dismissed from the program, but may petition the Graduate Program Administrator and Doctoral Advisory Committee for readmission. After reviewing the petition, the committee may allow readmission under such conditions, as it deems appropriate. A third grade lower than "B" will result in permanent dismissal from the program with no recourse to petition.

Time Limit

A student must complete all requirements for the Ph.D. degree within nine (9) consecutive years after the first date of enrollment in the program. Any exception to this policy requires the approval of the Graduate Program Administrator and the Dean of the College of Engineering.

Financial Assistance

The Graduate Programs of the Electrical Engineering Department offer a limited number of graduate assistantships to qualified full-time students. Students who receive such an award are required to assist faculty in research projects and/or teach courses in the undergraduate program. Criteria for assignment of master's assistantships include quantitative information (GPA, GRE score) and qualitative information (undergraduate preparation, publications, and letters of recommendation). Criteria for assignment of doctoral assistantships to new students include quantitative information (graduate GPA, GRE scores and TOEFL scores) and qualitative and/or supplemental information (letters of recommendation, applicant's statement of interest and intent, preparation in the fields of study, academic publications, previous college-level teaching experience, research work in the field, and grant-writing experience). No standardized test scores will be used as the sole criterion for awarding assistantships or for rejecting applicants for assistantships. Student loans are available to graduate students at Prairie View A&M University on the basis of need. For more information about loans and other sources of aid, contact the Office of Student Financial Services, Evans Hall, Room 201, Prairie View A&M University, Prairie View, TX 77446.

DEGREE PROGRAM REQUIREMENTS**Courses Required for all students.....29 SCH**

ELEG 6011 Graduate Seminar I
 ELEG 6021 Graduate Seminar II
 ELEG 6313 Stochastic Processes
 ELEG 7016 Doctoral Research I
 ELEG 7026 Doctoral Research II
 ELEG 7916 Doctoral Dissertation I
 ELEG 7926 Doctoral Dissertation II

Elective Courses Prescribed for Students9 SCH

6000 or 7000 level Electrical Engineering courses selected from one of the Electrical Engineering tracks.

Free Electives.....15 SCH

5000 to 7000 level graduate courses, but not more than 9 SCH course at the 5000 level will be accepted.

Degree Requirements.....53 SCH**Courses for Electrical Engineering Tracks****(A) Computer Engineering Track**

ELEG 6103 Advanced Computer Systems Design
 ELEG 6113 Computer Architecture & Advanced Logic Design
 ELEG 6123 The Internet: Design and Implementation
 ELEG 6133 Fault Tolerant Computing
 ELEG 6143 Modeling and Performance of Computer Architectures
 ELEG 6153 Information Networks
 ELEG 7103 Advanced Topics in Computer Engineering

(B) Communication and Signal Processing Track

ELEG 6203 Wireless Networks
 ELEG 6213 Digital Communications
 ELEG 6223 Network Management
 ELEG 6233 Coding Theory
 ELEG 6243 Advanced Broadband Communications Systems
 ELEG 6253 Telecommunications Network Security
 ELEG 6303 Signal Detection and Estimation
 ELEG 6313 Stochastic Processes
 ELEG 6323 DSP Hardware Systems Design
 ELEG 6333 Wavelets and Their Applications
 ELEG 6343 Advanced Signal and System
 ELEG 6353 Advanced Digital Signal Processing
 ELEG 7123 Advanced Topics in Telecommunications and Signal Processing

(C) Microelectronics Track

ELEG 6403 Solid State Devices
 ELEG 6413 Integrated Circuits Fabrication
 ELEG 6423 VLSI and ULSI Design
 ELEG 6433 Semiconductor Devices
 ELEG 6503 Advanced Photonics Materials and Devices
 ELEG 6513 Advanced Quantum Devices
 ELEG 6523 Advanced Characterization of Materials and Devices
 ELEG 6533 Advanced VLSI Design
 ELEG 6543 Advanced Solid State
 ELEG 6553 Advanced Mixed Signal
 ELEG 7143 Advanced Topics in Microelectronics

Other Technical Electives

GNEG 5063 Engineering Analysis I
 GNEG 5073 Engineering Analysis II
 GNEG 5033 Engineering Probability & Statistics
 GNEG 5133 Numerical methods in Engineering
 CVEG 5173 Finite Element Analysis
 CHEG 5023 Microelectronics Materials
 MCEG 5253 Advanced Engineering Materials
 GNEG 5193-001 Special Topics – Advanced Heat Transfer
 GNEG 5193-003 Special Topics – Dynamics of Mechanical Systems
 GNEG 5193-015 Special Topics – Modern Control Systems
 GNEG 5193-172 Special Topics - Environmental Modeling
 GNEG 5193-175 Special Topics – Water Quality Management
 GNEG 5193-179 Special Topics – Management of Engineering Projects

MATH 5033 Complex Analysis II
MATH 5133 General Topology II
MATH 5343 Boundary Value Problem
MATH 5613 Theory of Matrices
MATH 5723 Partial Differential Equations
MATH 5773 Advanced Analysis
MATH 5903 Modern Algebra

CINS 5033 Database Management Systems
CINS 5063 Data Structures and Algorithms
CINS 5413 Object Oriented Analysis and Design Methodologies
CINS 5323 Multimedia Applications
COMP 5153 Design and Analysis of Algorithms
COMP 5183 Software Engineering
COMP 5223 Artificial Intelligence and Expert Systems
COMP 5233 Distributed Computing and Parallel Processing
COMP5263 Computer Graphics

College of Juvenile Justice and Psychology

ADMINISTRATIVE OFFICER

H. Elaine Rodney, *Dean*

ADMINISTRATIVE STAFF

Larry French, Interim Head, *Department of Psychology*
Jonathan Sorensen, Interim Head, *Department of Justice Studies*

FACULTY

Anthony Carona, *Psychology*
Myrna Cintrón, *Juvenile Justice*
Larry French, *Psychology*
Camile Gibson, *Criminal Justice*
M. Denise Lovett, *Psychology*
Robert Mupier, *Economics*
Everette Penn, *Criminal Justice*
Delbert Price, *Psychology*
Cletus J. Snell, *Criminal Justice*
Jonathan Sorensen, *Criminal Justice*
Richard Tachia, *Statistics*

PURPOSE AND GOALS

The College of Juvenile Justice & Psychology is the academic unit housing the undergraduate and graduate programs for Criminal Justice, Juvenile Justice, Juvenile Forensic Psychology, and Psychology. Its purpose is to provide education and training in juvenile justice-allied disciplines and to produce students who will ultimately improve the juvenile justice system and work to resolve the problems of delinquency.

The College of Juvenile Justice & Psychology at Prairie View A&M University offers undergraduate courses leading to a Bachelor of Science degree in Criminal Justice or Criminal Justice with a Specialization in Juvenile Justice as well as a Bachelor of Science Degree in Psychology. The School also offers graduate courses leading to a Master of Science Degree in Juvenile Justice, a Master of Science Degree in Juvenile Forensic Psychology, and a Ph.D. Degree in Juvenile Justice.

The School seeks a diverse group of qualified students with backgrounds in various disciplines committed to improving the life experiences of youths involved in the Juvenile Justice System.

Master of Science in Juvenile Justice

The Master of Science program in Juvenile Justice offers a curriculum that enables students to critically evaluate and confront the humanistic, technical, and scientific aspects of criminal justice as applicable to juvenile crime and delinquency.

Specifically, the primary objectives of the Master of Science in Juvenile Justice are to:

- Enhance students' knowledge, skills, and resourcefulness related to detained and institutionalized juveniles in the juvenile justice system
- Increase students' knowledge of theoretical explanations and the etiologies of delinquency and juvenile crime
- Assure that students engage in the humanistic, technical, and scientific aspects of delinquency and juvenile crime
- Increase students' knowledge concerning effective methods to intervene and prevent delinquency
- Increase students' skills in how to conduct research and evaluate programs related to delinquency
- Expand students' knowledge of programs and policies related to delinquency

Since there are no comparable degree programs in the nation, graduates will have a unique opportunity to acquire specialized skills and competencies that should positively impact the lives of troubled youth across the state of Texas.

Master of Science in Juvenile Forensic Psychology

The Master of Science degree in Juvenile Forensic Psychology is a unique program in the State of Texas, and probably the only degree of its kind in the world. Its creation is in keeping with the intent of the timely and insightful action of the Texas Legislature in its determination to focus on children in the creation of the Texas Juvenile Crime Prevention Center at Prairie View A&M University.

The student in the graduate program of Juvenile Forensic Psychology at Prairie View A&M University will study psychological theories of behavior, misbehavior, and deviance.

Specifically, the primary objectives of the Master of Science in Juvenile Forensic Psychology are to:

- Enhance students' knowledge of how psychology interacts with the law and the legal system
- Increase students' knowledge of theoretical explanations of juvenile delinquency, juvenile crime, and juvenile aggression, especially from the viewpoint of psychological theories
- Provide students with skills in research methodology and statistics;
- Enhance students' knowledge of the cognitive and personality development of youth especially as it pertains to aggression in various stages;
- Increase students' knowledge of the psychological dynamics of family violence such as child abuse, spouse abuse, incest, and other forms of interfamilial violence;
- Provide students with knowledge and skills pertaining to the assessment, classification, and treatment of juvenile offenders; and
- Provide students with skills in psychological assessment and evaluation

Doctor of Philosophy in Juvenile Justice

The goal of the Ph.D. program is to provide doctoral training in juvenile justice research. General objectives include the development of new knowledge, juvenile crime prevention and improvement in the juvenile justice system, and dissemination of knowledge gained. The specific intention of the program is to produce scholars with three characteristics: First, graduates will have superior empirical skills. Second, they will be specialists in the subject matter of the juvenile justice discipline. Third, they will be generalists in the subject matter of criminal justice. The program produces scholars to teach in criminal justice and criminology departments of colleges and universities and researchers to work in federal, state, and large local agencies.

The Texas Juvenile Crime Prevention Center

In 1997, the Texas Legislature authorized the creation of the Texas Juvenile Crime Prevention Center (Texas JCPC) at Prairie View A&M University. This resulted in the creation of the College of Juvenile Justice and Psychology. The Texas JCPC is unique in the state of Texas and the nation and is committed to assisting with the reduction of juvenile crime and delinquency among youth.

The purpose of the Texas JCPC is to:

- Increase the knowledge of educators, practitioners, and others by conducting research and evaluation relating to juvenile crime
- Improve the knowledge and skills of students in the field of criminal justice by offering undergraduate degrees, graduate degrees, and continuing education
- Improve the dissemination of information relating to the reduction of juvenile crime
- Increase knowledge about programs and policies that address juvenile crime
- Enhance the skills of personnel by providing training and advice for practitioners engaged in juvenile crime and delinquency prevention

INSTRUCTIONAL ORGANIZATION

Program

Degree Offered

Juvenile Justice

Master of Science & Doctor of Philosophy

Juvenile Forensic Psychology

Master of Science

ADMISSION REQUIREMENTS**The Master of Science Programs**

In addition to the general admission requirements to the graduate school described elsewhere in the catalogue, students seeking admission to the M.S. degrees in juvenile justice and juvenile forensic psychology should meet the following requirements:

1. A bachelor degree from an accredited college or university
2. A minimum GPA of 2.75 with a GPA of 3.0 or higher preferred
3. Three letters of recommendation from persons in the field of the applicant's academic major or area of concentration
4. Submission of official scores on the general component of the Graduate Record Examination (GRE)
5. Completion of liberal arts courses at the undergraduate level such as social sciences, behavioral sciences, college algebra, and statistics
6. Completion of an essay detailing the applicant's reasons for pursuing the degree

The Ph.D. Program

Admission criteria for the Ph.D. Program in Juvenile Justice, as established by the Program faculty, are as follows:

Required elements: (In order for an application to be considered, all elements below must be present in the applicant's file by the semester deadline.)

- Baccalaureate degree conferred by a regionally-accredited institution;
- Master's degree, prior to entering doctoral course work, conferred by a regionally-accredited institution;
- Official Graduate Record Examination (GRE) score report, submitted to the Graduate School (an unofficial copy may be used by the Doctoral Committee in initial screening);
- Original transcripts, submitted to the Graduate School, for all academic work taken at the undergraduate and graduate levels (unofficial copies may be used by the Doctoral Committee in initial screening);
- Three letters of recommendation;
- Original written essay as described in the doctoral application form *and* a copy of the master's thesis or other lengthy report or paper; and
- If a foreign student, submission of official results from the Test of English as a Foreign Language (TOEFL). A score of 600 or higher is mandatory

Preferences:

- Baccalaureate degree in juvenile justice, criminal justice, or criminology. A secondary preference is a directly-related social science discipline (such as sociology) in which there is evidence of the study of crime-related phenomena.
- 3.0 Grade Point Average (GPA), or higher, on a four-point scale on all completed undergraduate course work.
- Master degree in juvenile justice, juvenile forensic psychology, criminal justice or criminology. A secondary preference is a directly-related social science discipline (such as sociology) in which there is evidence of the study of crime-related phenomena.
- 3.5 GPA, or higher, on a four-point scale in all completed graduate course work.
- Graduate research methods course (if not present, stem work must be completed).
- Graduate statistics course (if not present, stem work must be completed).
- Graduate Record Exam (GRE) Verbal and Quantitative scores in the higher percentiles.
- Evidence of a successfully-completed master's thesis.
- Written essay demonstrating strong writing skills; an expressed desire to teach at college level, work as researcher in a juvenile justice agency, and/or assist in developing juvenile justice policy within a governmental environment; realistic expectation of the degree's value; evidence of commitment to completing the degree; strong rationale for wanting this specific Ph.D.; and a rationale expressing what the applicant will add to the field.
- Letters of recommendation from faculty sufficiently acquainted with the student to be able to comment on the potential to successfully complete a doctoral program and demonstrating evidence of excellent

critical thought, motivation, study skills, and writing skills. Preferred ratings would be primarily excellent in all categories with an overall rating in the top 3 to 10 percent of all graduate students.

Enhancing qualities:

The committee will consider the following as information that will enhance an application:

1. Three or more years of paid work experience in a juvenile justice agency (law enforcement, probation/parole, or correctional institution).
2. Completion of a previous doctoral degree in any field.
3. College-level teaching experience, either as a part-time or full-time instructor.
4. Publication(s) in academic and/or scholarly outlets, with greatest emphasis on peer-reviewed publications.
5. Paid research *work* experience (not that involved in the production of a thesis).
6. Grant-writing experience.
7. Ability to attend courses as a full-time student (requires less than full-time outside employment).

Interview:

In the event the initial committee decision is favorable, applicants must submit to an interview with the Doctoral Committee prior to final acceptance. That interview may be either in person or via the equivalent of a telephone conference call, depending upon the distance and hardship involved in a personal interview.

Applicants will be admitted in one of two statuses: full graduate status or provisional status.

1. Full graduate status is conferred on those students admitted to the program with no conditions of admission, or who have satisfied all conditions of admission.
2. Provisional admission status is used when the Doctoral Committee feels that prerequisites have not been met, official versions of required forms have not been received, and/or there is a question of ability to perform at doctoral standards by virtue of a failure to meet specific admissions criteria. Students who are provisionally admitted must satisfy all requirements prior to being admitted to full graduate status (conditions and requirements will be provided via letter to the student). In the event of a failure to meet prerequisites, deficiencies must be completed prior to beginning doctoral course work. No doctoral course work may be taken when there are prerequisite deficiencies nor may stem work be used to meet doctoral program requirements. Where stem work is assigned to rectify deficiencies, any grade lower than "B" will automatically result in a decision to deny admission. No more than 12 units of course work may be taken in provisional status.

It is the student's responsibility to ensure that all conditions of admission are met in a timely fashion and to notify the doctoral coordinator when all conditions are met. Following the first semester in provisional status (non-prerequisite-deficiency cases), the Doctoral Committee will meet to consider placing the student in full graduate status. Based on the evidence at hand, the Committee may admit to full graduate status or dismiss from the program.

No student will be accepted in courses unless he/she is in full graduate status or provisional status within the Juvenile Justice Doctoral Program.

MASTER OF SCIENCE IN JUVENILE JUSTICE DEGREE PROGRAM

The MSJJ Program requires the completion of 36 semester credit hours. Two options are available for students: thesis and non-thesis. Students opting for the thesis curriculum must successfully complete 30 hours of course work in addition to 6 hours of thesis. The non-thesis option requires the successful completion of 36 hours of course work and passing a comprehensive examination.

Additionally, graduate students are to complete 200 hours of professional internship with agencies or programs servicing juvenile delinquents.

DEGREE PROGRAM REQUIREMENTS

Common Core..... 12 SCH

JJUS5123 Foundations of Juvenile Justice.....	3 SCH
JJUS 5763 Theories of Delinquency	3 SCH
JJUS 5943 Research Methods	3 SCH
JJUS 5963 Applied Statistical Methods and Computing.....	3 SCH

Thesis and Non-Thesis Degree Options 18-24 SCH

Select from:

JJUS 5113 Foundations of Criminal Justice.....	3 SCH
JJUS 5223 Substance Abuse	3 SCH
JJUS 5233 Community Structure and Problems	3 SCH
JJUS 5243 Community Building and Organizing	3 SCH
JJUS 5253 Domestic and Family Violence.....	3 SCH
JJUS 5413 Economic Life and Juvenile Crime	3 SCH
JJUS 5423 Conflict Mediation/Resolution	3 SCH
JJUS 5433 Counseling.....	3 SCH
JJUS 5523 Management of Juvenile Justice Organizations	3 SCH
JJUS 5773 Juvenile Law and Practice.....	3 SCH
JJUS5783 Ethics.....	3 SCH
JJUS5953 Special Topics in Juvenile Justice	3 SCH
JJUS5973 Policy Analysis.....	3 SCH

Thesis Option Requirements 6 SCH

JJUS 5986 Thesis0-6 SCH

Total Degree Requirements 36 SCH

MASTER OF SCIENCE IN JUVENILE FORENSIC PSYCHOLOGY

The MSJFP Program requires the completion of 36 semester credit hours. Two options are available: thesis and externship. The thesis option is designed for students interested in research and a Ph.D.. The externship option is designed for students who desire to work in the field of forensic psychology.

THESIS OPTION DEGREE PROGRAM REQUIREMENTS

Common Core.....	9 SCH
JPSY5113 Psychology and the Juvenile Law.....	3 SCH
JPSY5123 Psychology of Crime & Delinquency	3 SCH
JPSY5763 Development Psychology	3 SCH

Required Courses 9 SCH

JPSY5943 Research Methods	3 SCH
JPSY5963 Applied Statistical Analysis.....	3 SCH
JPSY5986 Thesis.....	3 SCH

Elective Courses.....	18 SCH
JPSY5223 Substance Abuse.....	3 SCH
JPSY5233 Violence and Aggression.....	3 SCH
JPSY5253 Domestic and Family Violence	3 SCH
JPSY5263 Psychology and Treatment of the Juvenile Offender.....	3 SCH
JPSY5413 Behavior Modification and Learning Theory	3 SCH
JPSY5423 Conflict Mediation/Resolution	3 SCH
JPSY5433 Counseling.....	3 SCH
JPSY5443 Group Dynamics and Group Treatment.....	3 SCH
JPSY5453 Childhood Psychopathology	3 SCH
JPSY5523 Introduction to Neuropsychology	3 SCH
JPSY5533 Social Psychology and the Legal System	3 SCH
JPSY5773 Psychology Seminar on Selected Topics.....	3 SCH
JPSY5783 Ethics.....	3 SCH
JPSY5843 Personality Assessment I.....	3 SCH
JPSY5853 Personality Assessment II.....	3 SCH
JPSY5973 Field Work in Psychology	3 SCH

Total Degree Requirements 36 SCH

EXTERNSHIP OPTION DEGREE PROGRAM REQUIREMENTS

Common Core.....	9 SCH
JPSY5113 Psychology and the Juvenile Law.....	3 SCH
JPSY5123 Psychology of Crime & Delinquency	3 SCH
JPSY5763 Development Psychology	3 SCH

Required Courses 6 SCH

JPSY5843 Personality Assessment I.....	3 SCH
JPSY5853 Personality Assessment II.....	3 SCH

Externship Course..... 3 SCH

JPSY 5973 Field Work in Psychology	3 SCH
--	-------

Elective Courses..... 18 SCH

JPSY5863 Clinical Interviewing.....	3 SCH
JPSY5223 Substance Abuse.....	3 SCH
JPSY5233 Violence and Aggression.....	3 SCH
JPSY5253 Domestic and Family Violence	3 SCH
JPSY5263 Psychology and Treatment of the Juvenile Offender.....	3 SCH
JPSY5413 Behavior Modification & Learning Theory	3 SCH
JPSY5423 Conflict Mediation/Resolution	3 SCH
JPSY5433 Counseling.....	3 SCH
JPSY5443 Group Dynamics and Group Treatment.....	3 SCH
JPSY5453 Childhood Psychopathology	3 SCH
JPSY5523 Introduction to Neuropsychology	3 SCH
JPSY5533 Social Psychology and the Legal System	3 SCH
JPSY5773 Psychology Seminar on Selected Topics.....	3 SCH
JPSY5783 Ethics.....	3 SCH
JPSY5863 Clinical Interviewing.....	3 SCH
JPSY5943 Research Methods	3 SCH
JPSY5963 Applied Statistical Methods and Computing.....	3 SCH

Total Degree Requirements 36 SCH

DOCTOR OF PHILOSOPHY IN JUVENILE JUSTICE DEGREE PROGRAM

The program requires a minimum of 61 semester credit hours for the Ph.D. Of these hours, 49 are course work hours and 12 are dissertation hours. Only 6 hours may be from courses lower than the 7000 level. The Juvenile Justice Ph.D. Program has no tracks. There is a common core and students may develop a specialty by structuring their choice of substantive courses, elective courses, and dissertation topic.

Courses taken during a master degree program may not be repeated for credit at the doctoral level. No more than two (2) courses lower than the 7000 level may be applied toward fulfilling the requirements of the Ph.D. program. Courses lower than the 7000 level must be approved by the Doctoral Coordinator prior to enrolling. In no event will more than one lower-level course in each of the theory and juvenile justice areas be approved.

Transfer of Graduate Courses from Other Universities

A maximum of six (6) units of juvenile-justice-related doctoral-level course work may be transferred from other accredited universities. A minimum grade of "B" is required in any such courses. Transfer credit is granted by petition to, and approval by, the Doctoral Committee, with final approval by the Dean of the School. It is the student's responsibility to initiate the petition and justify the acceptance of the courses. In the event a student has taken less than 7000-level courses to be used toward the course work requirements of the doctoral program, the number of allowed transfer units will be reduced on a one-for-one basis. Courses presented for transfer credit must be the equivalent of courses in the doctoral program.

Continuous Enrollment

Continuous enrollment defines the minimal level of academic activity needed to remain enrolled in the program. A Ph.D. student is considered to be continuously enrolled when he or she is enrolled for at least one course during each of the spring and fall academic semesters. Once a Ph.D. student has been admitted to candidacy he or she must enroll for a minimum of 6 hours during the 12-month academic year to be continuously enrolled. Students who fail to meet the continuous enrollment criteria will be withdrawn from the program and must apply for readmission. The sole exception is enrollment during comprehensive exams. Students taking comprehensive exams are not required to be enrolled in course work.

Residency

Students must establish course work residency before being admitted to candidacy. The residency requirement is considered to be met when a student has been continuously enrolled on campus for two consecutive semesters (excluding the summer semester).

Leave of Absence

Graduate students who have not completed their formal course requirements are expected to enroll continuously in the program during all consecutive long semesters after initial registration. Students who do not expect to be enrolled should request a leave of absence in a letter to the Doctoral Coordinator. A leave of absence is granted at the discretion of the Dean.

This provision includes students who have completed their formal course requirements and are writing the dissertation away from the campus. During a leave of absence, a student cannot make use of the University or College of Juvenile Justice and Psychology resources, nor can a student attempt comprehensive exams or defend a dissertation.

Good Standing

Ph.D. students remain in good standing when they maintain a minimum cumulative GPA of 3.0 for graded courses in the doctoral program. Only grades of "B" or better count toward required course work (i.e., all but the elective courses) and dissertation hours. Any grade lower than "B" in a required area course will necessitate that the course be retaken and passed with a grade of "B" or higher. While one elective grade of "C" may be counted toward the Ph.D., only grades of "B" or better indicate satisfactory completion of courses required for the Ph.D. If a second such grade is earned, the student will be dismissed from the program, but may petition the Doctoral Committee for readmission. After reviewing the petition, the committee may allow readmission under such conditions as it deems appropriate. A third grade lower than "B" will result in permanent dismissal from the program with no recourse to petition.

Time Limit

A student must complete all requirements for the Ph.D. degree within seven (7) consecutive years after the first date of enrollment in the program. If transfer courses are permitted, the initial enrollment date of those courses must not exceed seven years prior to the date the degree is awarded.

Comprehensive Examination

Before they may be admitted to candidacy, students must successfully complete their doctoral examinations. These examinations are employed to test the student's general knowledge, his or her ability to integrate and synthesize the wealth of information in the field, and his or her preparation for engaging in the kind of independent scholarship required to complete a doctoral dissertation. Students failing any portion of the comprehensive examinations must consult with the Doctoral Coordinator to determine the steps to be taken. Two consecutive failures on any examination will result in the student's dismissal from the Ph.D. program.

Advancement to Candidacy

Following successful completion of the comprehensive examinations, it is the student's responsibility to petition for advancement to candidacy. To be advanced to candidacy, students must have completed all of the following requirements and/or procedures:

1. Achieved a cumulative grade-point average no lower than 3.0 in program course work and a minimum grade of "B" (3.0) in all required area courses.
2. Completed all program course work with no more than one grade lower than "B" (unless the student successfully petitions his or her dismissal and retakes a second "C" course with a grade of "B" or higher).
3. Successfully passed all comprehensive examinations.

Students admitted to candidacy are required to accumulate a minimum of 6 credit hours during each twelve month period following admission to candidacy and until such time as the degree is granted. Further, a student must be enrolled for a minimum of 3 dissertation hours during any semester in which University resources are used. Assistantship students must continue to meet the enrollment criteria for maintaining their assistantship. Any exception to this policy requires the approval of the Doctoral Program Coordinator and the Dean of the College of Juvenile Justice & Psychology. Students who fail to enroll for the appropriate number of hours following advancement to candidacy shall be placed on probation. To be removed from probation, the student must enroll for the deficient number of credits plus three additional credits in the next semester. Students who do not meet these requirements will be dismissed from the doctoral program and required to reapply for admission, subject to any new admissions criteria in effect at the time of readmission.

Dissertation

Following approval of the student's application to candidacy, the student may enroll in Dissertation hours. Two attempts at passing both the dissertation prospectus defense and the dissertation defense are permitted. Having met other requirements for the degree, students who successfully defend their dissertations and complete the submission process are granted the degree of Doctor of Philosophy at the commencement ceremony immediately following. Failure to pass either the dissertation prospectus defense or the dissertation defense will result in the student's dismissal from the program.

The determination of completion requirements for the Doctor of Philosophy degree in Juvenile Justice is solely the province of the program faculty.

Financial Assistance

The Graduate Programs of the School offer a limited number of graduate assistantships to qualified full-time students. Students who receive such an award are required to assist faculty on research projects and/or teach courses in the undergraduate programs. Criteria for assignment of master's assistantships include quantitative information (GPA, GRE scores) and qualitative information (undergraduate preparation, writing, and letters of recommendation). Criteria for assignment of doctoral assistantships to new students include quantitative information (graduate GPA, GRE scores and TOEFL scores) and qualitative and/or supplemental information (letters of recommendation, examples of student writing, applicant's statement of interest and intent, preparation in the field of study, academic publications, previous college-level teaching experience, research *work* in the field, and grant-writing experience). No standardized test score will be used as the sole criterion for awarding assistantships or for rejecting applicants for assistantships.

Student loans are available to graduate students at Prairie View A&M on the basis of need. For more information about loans and other sources of aid, contact the Office of Student Financial Services, Evans Hall, Rm. 201, Prairie View A&M University, Prairie View, TX 77446.

DEGREE PROGRAM REQUIREMENTS

Prerequisite Courses (necessary for admission, not counted in program hours).....	6 SCH
JJUS 5943 Research Methods (or equivalent)	3 SCH
JJUS 5963 Applied Statistical Methods and Computing (or equivalent).....	3 SCH
Required Support Courses	13 SCH
JJUS 7661 Juvenile Justice Statistics Lab	1 SCH
JJUS 7943 Advanced Research Methods I	3 SCH
JJUS 7943 Advanced Research Methods II	3 SCH
JJUS 7943 Advanced Statistical Techniques I.....	3 SCH
JJUS 7943 Advanced Statistical Techniques II.....	3 SCH
*Required Juvenile Justice Courses	9 SCH
JJUS 7113 Juvenile Justice Issues and Practice	3 SCH
JJUS 7653 Seminar on Juvenile Corrections	3 SCH
JJUS 7683 Philosophy of Punishment	3 SCH
JJUS 7753 Demographics and Juvenile Justice	3 SCH
JJUS 7763 Seminar on Juvenile Processing by Police and Courts.....	3 SCH
JJUS 7783 Legal Aspects of Juvenile Justice.....	3 SCH
JJUS 7863 Policy Analysis and Program Evaluation	3 SCH
**Required Delinquency Theory Courses	9 SCH
JJUS 7673 The Juvenile Offender and Youth Gangs	3 SCH
JJUS 7773 Theories of Crime and Delinquency	3 SCH
JJUS 7873 Advanced Seminar in Crime and Delinquency Theory.....	3 SCH

***Elective Courses**..... **18 SCH**

Select from:

JJUS 7623 Seminar in Grant Writing	3 SCH
JJUS 7643 Management and Administration	3 SCH
JJUS 7653 Seminar on Juvenile Corrections.....	3 SCH
JJUS 7673 The Juvenile Offender and Youth Gangs	3 SCH
JJUS 7683 Philosophy of Punishment.....	3 SCH
JJUS 7693 Qualitative Methods in Social Sciences	3 SCH
JJUS 7753 Demographics and Juvenile Justice.....	3 SCH
JJUS 7763 Seminar on Juvenile Processing by Police and Courts.....	3 SCH
JJUS 7773 Theories of Crime and Delinquency	3 SCH
JJUS 7783 Legal Aspects of Juvenile Justice.....	3 SCH
JJUS 7853 Prevention and Treatment of Crime and Delinquency	3 SCH
JJUS 7863 Policy Analysis and Program Evaluation	3 SCH
JJUS 7873 Advanced Seminar in Crime and Delinquency Theory	3 SCH

*Selected courses lower than the 7000 level may be accepted with petition to and approval of the Doctoral Coordinator prior to enrollment.

**Selected courses lower than the 7000 level may be accepted with petition to and approval of the Doctoral Coordinator prior to enrollment. Comprehensive exams will, minimally, require content from JJUS 7673, 7773 and 7873. Therefore, students are strongly encouraged to select these courses to meet the delinquency theory area requirement.

College of Nursing

ADMINISTRATIVE OFFICER

Betty N. Adams, *Dean*

ADMINISTRATIVE STAFF

Chloe Gaines, *Graduate Program*
Vera Harmon, *Assistant Director*
Sonya Kelly, *Administrative Assistant*

FACULTY

Patricia Allen, *Medical Surgical Nursing*
Lillian Bernard, *Psychiatric Mental Health Nursing*
JoAnn P. Blake, *Maternal Child Health Nursing*
Ruth H. Caggins, *Psychiatric Mental Health Nursing*
Joyce Franklin-Cook, *Family Nurse Practitioner*
Jennifer Goodman, *Medical Surgical Nursing*
Celeste Hammock, *Community Health/Occupational Health Nursing*
Immaculata Igbo, *Cardiovascular Pharmacology*
Gloria Rose, *Family Nurse Practitioner*
Jeffrey T. Sherer, *Clinical Pharmacology*
Elsa Tansey, *Public Health*
Annie Wilson, *Community Health Practice and Program Planning*

PROGRAM HISTORY

The College of Nursing offers a Master's of Science Degree in Nursing with a family nurse practitioner (FNP) specialty offering. The role of the advanced nurse practitioner in delivering primary health care to diverse clients residing in urban and/or rural communities is emphasized. The program is designed to be completed in five (5) semesters of full time study. A part-time study option is available. The total number of credits required is 53, which includes 780 hours of clinical practice. The curriculum consists of 12 semester hours of core content, 15 semester hours of advanced practice core content and 17 semester hours of family nurse practitioner specialty content. Clinical experiences occur in urban and rural settings.

The Master of Science Degree in Nursing program is organized to meet and/or exceed the requirements of regulatory agencies such as the following: the Texas Higher Education Coordinating Board, the Board of Nurse Examiners of Texas, the National League for Nursing, the National Organization of Nurse Practitioner Faculty, and the American Association of Colleges of Nursing. Graduates of the program are eligible to take a national certification.

PROGRAM OBJECTIVES

The Master of Science Degree in Nursing will prepare the advanced practice nurse to:

1. Formulate health promotion and disease prevention strategies that empower clients to attain and maintain health and healthy lifestyles.
2. Interpret research findings to implement evidence based nursing outcomes.
3. Appraise nursing and non-nursing theories to use in advancing nursing practice.
4. Integrate ethical decision-making theories into professional practice.
5. Develop an appreciation for human diversity in all clients and health care environments.
6. Demonstrate knowledge of the policy making process as it influences self, the profession and health care system.
7. Apply knowledge and skills that are essential for advanced nursing practice in a variety of settings and the emerging health care system.
8. Incorporate professional values, accountability and responsibility into advanced nursing practice.

ADMISSION REQUIREMENTS

General policies relating to admission to the graduate study, advanced placement, progression, grievance and graduation can be found in the appropriate catalog sections. Also, students must meet the following requirements for admission to graduate study in the Prairie View A&M University College of Nursing:

1. Baccalaureate Degree in Nursing from a program accredited by the National League for Nursing Accrediting Commission (NLNAC) or the Commission on Collegiate Nursing Education (CCNE).
2. Basic statistics course completed.
3. Basic course in health assessment completed.
4. Current licensure as a registered nurse in the State of Texas or application for licensure in progress.
5. Minimum Grade Point Average of 2.75 on a 4.0 scale in upper division nursing courses.
6. Official report of scores from the Graduate Record Examination (GRE).
7. Two years experience as a Professional Registered Nurse.
8. A letter of reference from each of the following: a former professor of nursing, an immediate supervisor in the most recent health care employment setting, and a registered nurse peer in the work place.

RETENTION AND PROGRESSION

Policies relating to retention and progression are congruent with the general regulations for graduate study and for national certifying organizations:

1. Grading System for Graduate Students

A = 90-100
B = 81-89
C = 75-80
D = 65-74
F = below 65
I = Incomplete
W = Withdrew officially

2. In order to show satisfactory progress toward an advanced degree, a student must maintain an average grade of "B". A student who, in any two consecutive semesters or summer terms, has a cumulative grade point average below 3.00 is subject to academic dismissal upon recommendation of the Dean of the College of Nursing to the Dean of the Graduate School.
3. A grade of "B" must be obtained in Advanced Practice core courses (Advanced Pathophysiology, Advanced Pharmacology, Advanced Health Assessment) prior to progressing in the specialty practice courses.
4. Courses with grades of a "C" or below may be repeated only once.
5. A student can receive a grade of "I" (incomplete) in a course with the privilege of finishing the work before the end of one calendar year from the close of the term in which the grade was earned.

This regulation does not apply to thesis and research credit courses but does apply to terminal project credit courses. A fee, payable to the registrar, is required for the change of grades.

6. An "IP," in progress, is assigned to thesis and projects provided the student remains enrolled and makes satisfactory progress as certified by the committee chair, dean, and director of the graduate program. The time allotted for removal of the "IP" shall be the same as the maximum time for completion of a degree or certificate.
7. A student must complete requirements for the degree within six consecutive years after the first date of enrollment for graduate study.
8. A student who chooses to withdraw from the College of Nursing Graduate Program for any reason prior to the completion of a semester or summer term after having registered for classes is required to comply with the official withdrawal procedure as defined in the catalog section, "Withdrawal from a Course and from the University."

GRIEVANCE PROCEDURES

A student who encounters problems arising from course matriculations, advancement to candidacy, degree requirements or general regulations should discuss them first with the advisor. If a student wishes to appeal a decision, the student should first present the grievance to the Dean who may refer the matter to an appeals panel for investigation and a recommended course of action. Appeals that move beyond the Dean, College of Nursing, should be referred to the Provost and Vice President for Academic Affairs who may refer the matter to the Director, Office of Graduate Programs.

MASTER OF SCIENCE DEGREE IN NURSING PROGRAM**Application for Graduation**

To obtain the Master of Science Degree in Nursing from Prairie View A&M University, the student must have:

1. filed a degree plan with the graduate school;
2. successfully completed the semester credit hours of required course work with an average of "B" or above;
3. completed the required practicum with grades of "B" or better; and,
4. met all the general requirements for graduation as outlined in the Graduate Catalog.

DEGREE PROGRAM REQUIREMENTS

Core Courses.....	12 SCH
NURS 5013 Theoretical Foundation of Nursing	
NURS 5003 Transcultural Family Health Care in Rural and Urban Settings	
NURS 5133 Clinical Research	
NURS 5713 Health Policy	
Advanced Practice Core Courses.....	15 SCH
NURS 5023 Advanced Pharmacology	
NURS 5033 Advanced Pathophysiology	
NURS 5042 Role Theory and Ethics in Advanced Practice Nursing	
NURS 5214 Advanced Health Assessment with Practicum/Lab	
NURS 5763 Financial Management in Advanced Nursing Practice	
8	
Nurse Practitioner Specialty Core Courses.....	17 SCH
NURS 5215 Primary Health Care for the Childbearing/Childrearing Family	
NURS 5245 Primary Health Care for the Adult and Elderly	
NURS 5257 Management of Complex Health Problems	
*Electives.....	3 SCH
Select from:	
NURS 5743 Writing for Publication	
NURS 5753 HIV/AIDS Issues and Challenges	
NURS 5983 Special Topics	
NURS 5993 Independent Study	
Non-Thesis Option.....	6 SCH
NURS 5743 Writing for Publication	
One Elective Course	
Thesis Option.....	6 SCH
NURS 5803 Thesis: Proposal Writing	
NURS 5903 Thesis	
Total Degree Requirements.....	53 SCH

* Selected 5000 level or above courses from other programs may be accepted as electives with petition to and approval from the Program Director.

Distance Education Programs**Mission of Distance Education**

Distance education at Prairie View A&M University has as its central purpose the elimination of geographical distance as a barrier to equal access to quality courses and programs. Target populations for the distance education program include pre-baccalaureate and graduate students, practitioners, active duty military personnel, business professionals, and students at colleges outside Texas where curricula are limited in specific areas. While distance delivery of the educational program is primarily to benefit the citizens of Texas, it is extended beyond the state and nation to the extent available resources may be allocated without compromising quality delivery of programs on campus.

Goals of Distance Education

- To promote the state's goal of increasing the number of high school graduates in Texas who earn college degrees.
- To offer to distant site students courses and degree programs through varied formats at a quality level comparable to that of offerings on the main campus at Prairie View A&M University.
- To meet training needs of target populations including, but not limited to, practitioners; active duty military personnel; business professionals; pre-baccalaureate and graduate students; and person in foreign-based colleges and universities with limited college curricula.

Program Offerings**Northwest Graduate Center, Spring, TX**

Education	M.A. Counseling
	M.Ed. Educational Administration

University Center, Conroe/Woodlands, TX

Education	M.Ed./M.S. Elementary/Early Childhood Education
	M.Ed. Educational Administration
Engineering	M.S. Engineering
Nursing	M.S.N. Family Nurse Practitioner

University Courses

College of Agriculture and Human Sciences

AGEC 5213. Land Use and Resource Management. (2-2) Credit 3 semester hours. Nature and the economic dimensions of private and public control of land. Use of natural resources, including land, stock and flow resource concepts; time and space as they affect resource utilization and benefits. Laboratory studies of field problems in resource management and use. Lab fee \$15.00

AGEC 5223. Farm and Ranch Management. (2-2) Credit 3 semester hours. Theories of the farm and of the management process; farm-ranch business growth and productive efficiency; control and coordination of the agents of production; risk and uncertainty; agribusiness organization and management; and managerial decision making. Laboratory application of principles of economics to the production process, including analysis of costs, returns, and productivity. Lab fee: \$15.00

AGEC 5233. Price Analysis. (3-0) Credit 3 semester hours. Theories and principles fundamental to pricing of agricultural factors of production and agricultural commodities; relationship of prices within the agricultural sector and between the agricultural sector and the general economy; kinds of price changes; forecasting factors and conditions that affect agricultural prices; futures trading; parity prices; and administrated prices.

AGEC 5243. Agricultural Policy. (3-0) Credit 3 semester hours. Theoretical foundations of policy making and economic value of public policies and programs to the agricultural industry; interrelation between the social, political, and economic systems and agriculture; policy development and implementation; and the value of agricultural policy to society.

AGEC 5253. Marketing of Farm Products. (3-0) Credit 3 semester hours. Theoretical foundations of the modern economic system, including values added in the marketing system; dimensions and functions of marketing in relation of time, space, and value; market integration and product quality control; and market contracting orders and power.

AGEC 5263. Research Methods in the Agricultural Sciences. (3-0) Credit 3 semester hours. Philosophy, methods, and techniques of scientific inquiry in the discovery of new knowledge in the food, agricultural and human sciences; role of theory and assumptions. Defining and evaluating research project proposals, including objectives and procedures, analytical methods and techniques, evaluation of research studies, and development of thesis prospectus or equivalent.

AGEC 5283. Agricultural Finance. (3-0) Credit 3 semester hours. Theories, principles, and problems of financing agricultural business, including farms and ranches; costs and returns from the use of capital; forms and roles of capital in agriculture; capital productivity and earning, and capital market organization, and institutions; supply and demand of financial resources; and role of debt in farm growth.

AGHR 5303. Research. (0-6) Credit 3 semester hours. Conduct data collection, manuscript preparation, and presentation of research. Registration with permission of the graduate advisor/research chair. Student may enroll in this course twice for a total of 6 semester credit hours. Lab fee: \$15.00

AGHR 5323. Workshop in Food and Agricultural Sciences. (2-2) Credit 3 semester hours. Study of selected problems and issues in the food and agricultural sciences with emphasis on teacher and/or extension education programs. Analysis of contemporary educational needs. Selection and organization of course/program content, criteria and procedures for evaluation. Lab fee: \$15.00

AGHR 5333. Administration and Supervision of Agriculture and Human Resources. (3-0) Credit 3 semester hours. Development, organization, administration, and supervision of vocational agricultural education at the local, state, and national levels.

AGHR 5343. Youth Leadership Development. (3-0) Credit 3 semester hours. Procedures of organizing and conducting agricultural programs and activities for developing leadership skills in youth.

AGHR 5353. Technological Change. (3-0) Credit 3 semester hours. A study of advanced technological changes affecting the food and agricultural economy. Cultural and socioeconomic forces retarding and/or accelerating change. Processes of planning and implementing change.

AGHR 5373. Seminar. (3-0) Credit 3 semester hours. Study of current legislative and research developments in the food and agricultural sciences. Readings, discussions and written reports focusing on application of developments in professional practice.

AGHR 5813. Vocational Guidance and Counseling. (3-0) Credit 3 semester hours. Study of educational and occupational opportunities to assist youth in making career choices. Special attention is given to rural and limited resource youth. Techniques of individual and group counseling.

AGHR 5823. Special Topics in the Food and Agricultural Sciences. (2-2) Credit 3 semester hours. Directed individual study of a problem affecting some aspect of the food and agricultural sciences. Special work in an identified area of special interest. Reports, discussion, and major paper required. Lab fee: \$10.00

AGHR 5833. Organization and Administration of Agricultural Extension Programs. (3-0) Credit 3 semester hours. Study of extension programming in agriculture and human sciences. Principles of developing objectives and program planning; coordination and procedures of teaching and evaluating. One week observation with a County Extension Agent required. Prerequisite: Last semester senior or graduate student classification.

AGHR 5991-5992-5993. Independent Study. (0-2); (0-4); (0-6) Credit 1; 2; or 3 semester hours. Readings research, and/or field placement focusing on pre-selected issues in the food and agricultural sciences.

AGRO 5613. Environmental Microbiology. (3-0) Credit 3 semester hours. Study of the biological and chemical interactions between microbes and microbial metabolites with the environment (e.g., air, water, and soil) as related to food, agriculture quality and safety, animal and human health, and waste management. Emphasis will be on bioremediation, microbial bioprocesses, microbial by-products, microbial control and aerobiology. Laboratory, field and greenhouse situations will be practiced.

AGRO 5653. Soil Chemistry. (2-2) Credit 3 semester hours. Chemical processes in soils and their application in nutrient cycling, plant nutrition, waste disposal, acid rain, fate of pesticides and heavy metals, soil, plant, and water analysis in lab. Lab fee: \$15.00

AGRO 5663. Principles of Environmental Science and Management. (3-0) Credit 3 semester hours. Discussion of the physical, chemical and biological components of the environment as related to agricultural and industrial waste treatments and processes. Scientific and management approaches will be evaluated.

AGRO 5713. Biostatistics. (3-0) Credit 3 semester hours. Study of experimental design, scientific methods, statistical concepts, data analysis procedures, and computer applications.

AGRO 5723. Soil-Plant Relationships (3-0) Credit 3 semester hours. Discussion of recent literature pertaining to growth response curves, nutrient uptake, movement of nutrients in the soil, and measurement of availability of nutrients to plants, movement of nutrient to natural water systems.

AGRO 5733. Agricultural Chemicals and Water Quality. (2-2) Credit 3 semester hours. Analysis of practices underlying the economical use of fertilizers, pesticides, and other agricultural chemicals. Emphasis on the relationship to soil properties and plant growth, selectivity and impact on the environment. Lab fee: \$10.00

AGRO 5743. Land Disposal of Wastes. (3-0) Credit 3 semester hours. Theoretical, regulatory, and practical aspects of disposal of municipal wastes, sewage effluent and sludge, industrial and hazardous wastes by land treatment and filling. Clean-up soil resources contained by past waste disposal as well as environmental impact of organic wastes will be considered.

AGRO 5753. Soils, Ecology, and Land Uses. (3-0) Credit 3 semester hours. Soils and their properties as related to landscape ecology and specific land uses will be examined on a global, regional, and local level. An ecosystem approach will be used to examine issues and current problems associated with ecology and land use practices in agricultural systems, rangelands, forests, and wetlands. Also, ethical and philosophical points will be considered based on different soils, ecology, and land use viewpoints.

AGRO 5783. Application of Biostatistics. (3-0) Credit 3 semester hours. Techniques of experimental designs for biological, food and agricultural research. Techniques for application in field, greenhouse, survey and laboratory situations. Emphasis on methods to reduce error and enhance experimental control.

AGRO 5793. Problems and Issues in Environmental Science. (3-0) Credit 3 semester hours. Identification and analysis of current trends and issues in environmental science. Evaluation of pending legislation, federal agency regulations and state and local policy applications. Reports, discussions, projects.

ANSC 5513. Physiology of Reproduction. (2-2) Credit 3 semester hours. Basic biochemical, physiological, and endocrine mechanisms involved in reproductive function. Current research principles and techniques useful in studying physiology of reproduction. Lab fee: \$10.00

ANSC 5533. Non-Ruminant Nutrition. (2-2) Credit 3 semester hours. Concepts of the function deficiency, interrelation and bioadaptability of nutrients as part of total feed formulation. The physical, chemical, and biological interrelationships of nutrients as they relate to growth, development, and production of monogastric animals. Lab fee: \$10.00

ANSC 5543. Ruminant Nutrition. (2-2) Credit 3 semester hours. Current concepts in anatomy, physiology, and microbiology of digestion of ruminants, with application of basic principles to efficient management of beef cattle, dairy cattle, goats and sheep. Lab fee: \$10.00

ANSC 5553. Dairy Goat Production and Management. (2-2) Credit 3 semester hours. Review of current research and production practices; the application of developing technology to goat enterprises, with economic evaluation of such enterprises. Lab fee: \$10.00

ANSC 5563. Animal Health and Diseases. (2-2) Credit 3 semester hours. Etiology, epidemiology, immunology, preventive measures, and management practices pertinent to diseases and health of animals. Lab fee: \$10.00

ANSC 5573. Beef Cattle Production and Management. (2-2) Credit 3 semester hours. Current research and production practices; the application of developing technology for beef cattle enterprises with economic evaluation of such enterprises. Lab fee: \$10.00

HUSC 5313. Studies in Family Resource Management. (3-0) Credit 3 semester hours. An analysis of fundamental management concepts, current research, and special topics and issues related to family consumer resource management. Abstracts of research studies and one major research paper required.

HUSC 5326. Advanced Practice in Dietetics I. (0-12) Credit 6 semester hours. Preplanned experience at the professional level in dietetic administration, food service management, clinical and therapeutic nutrition and community and public health nutrition. Prerequisite: Acceptance in Dietetic Internship Program.

HUSC 5333. Introduction to Clinical Hypnosis. (3-0) Credit 3 semester hours. History, ethic, suggestions, induction, and deepening techniques utilizing hypnosis with client issues. Training in understanding, interpretation, and application of various hypnotic approaches. Suggestions utilized with major hypnotically indicated illness, disorders and varying client concerns. Prerequisite: Graduate student must have earned a minimum of 15 semester hours in an approved graduate program.

HUSC 5336. Advanced Practice in Dietetics II. (0-12) Credit 6 semester hours. Continuation of Advanced Practice in Dietetics I.

HUSC 5343. Research Problems. (3-0) Credit 3 semester hours. A study of research methods in the social sciences as applied to research issues in the human sciences. Planning a research study; analysis of research reports; identifying needed research in the human sciences. Abstract and proposal writing required.

HUSC 5346. Marriage and Family Therapy Practicum II. (0-12) Credit 6 semester hours.. Supervises clinical practicum in marriage and family therapy. Therapeutic sessions with a variety of client issues and the utilization of major therapeutic techniques required. 1400 clock hours of supervised field placement required. Prerequisite: 30 semester hours and/or advisors approval.

HUSC 5353. Dietetic Seminar I. (0-6) Credit 3 semester hours. Study of the delivery of nutritional services for individuals, families and institutions. Major emphasis on the current development in nutrition and dietetics. Reading, discussion and reports and presentations focusing on the professional practice of dietetics. Prerequisite: Acceptance into Dietetic Internship Program.

HUSC 5363. Dietetic Seminar II. (0-6) Credit 3 semester hours. Continuation of Dietetic Seminar I.

HUSC 5373. Analysis and Treatment of Sexual Dysfunctions. (3-0) Credit 3 semester hours. Analysis of varied factors affecting sexual functioning among men and women with an emphasis on marital and family dynamics.

HUSC 5383. Child and Adolescent Therapy. (3-0) Credit 3 semester hours. Analysis and study of cognitive, behavioral, ecological, and psychological treatment modalities indicated in the treatment of childhood disorders and illnesses. Examination, diagnosis, and evaluation of childhood symptomatology and the utilization of therapeutic interventions.

HUSC 5393. Family Communication. (3-0) Credit 3 semester hours. An examination and application of various communication theories, patterns and techniques. Analysis of verbal and non-verbal communication patterns within the family are examined in family settings.

HUSC 5523. Marriage and Family Therapy. (3-0) Credit 3 semester hours. Issues, practices and principles of marriage and family therapeutic strategies and techniques. Analysis of strategies and application of techniques in simulated situations required.

HUSC 5533. Family Theory and Issues. (3-0) Credit 3 semester hours. A comprehensive review of theoretical-conceptual frameworks and research in family studies. Role of theory and research in the interdisciplinary study of individual and family behavior throughout the life cycle.

HUSC 5543. Theories of Child Development. (3-0) Credit 3 semester hours. A study of the developmental characteristics of the child from birth to age 20. Analysis of major theories and research with emphasis on interpretation and application of research findings to programs for children and parenting education.

HUSC 5553. Human Development. (3-0) Credit 3 semester hours. Study of multiple psychobiosocial characteristics of human development and behavior throughout the lifespan. Examination, evaluation and interpretation of developmental theories and current issues and trends.

HUSC 5563. Marriage and Family Therapy Practicum I. (0-6) Credit 3 semester hours. Supervised clinical practicum in marriage and family therapy. Therapeutic sessions with a variety of client issues and the utilization of major therapeutic techniques required. 600 clock hours of supervised field placement required. Prerequisite: 27 semester credit hours and/or advisor's approval.

HUSC 5683. Family Ethics and Issues. (3-0) Credit 3 semester hours. Critical review of current literature on family ethics: principle problems of confidentiality, therapist and client relationships; special consideration given to state and federal law.

HUSC 5693. Thesis. (0-6) Credit 3 semester hours.

HUSC 5723. Family Financial Counseling. (3-0) Credit 3 semester hours. Analysis of family expenditure patterns, common financial difficulties and avenues by which families are assisted in making financial decisions. Survey and analysis of consumer counseling services with written documentation of interactions required.

HUSC 5993. Independent Study. (0-0) Credit 3 semester hours. Readings, research, and/or field placement focusing on pre-selected issues.

School of Architecture

ARCH 5423. Urban Planning. (3-0) Credit 3 semester hours. Study of theories and concepts concerning the structure and function of urban communities; spatial and temporal aspects of urban development; problems and consequences of planned and unplanned changes in urban society.

ARCH 5506. Internship. (0-0) Credit 6 semester hours. Approved summer internship in an architecture office, the building construction industry or a planning or public service agency or approved foreign study program. Appropriate documentation of the experience will be required. Permission of the Dean.

ARCH 5513. Research Seminar. (3-0) Credit 3 semester hours. Research and programming for the Comprehensive Project Studio.

ARCH 5523. Historic Preservation and Adaptive Reuse. (3-0) Credit 3 semester hours. Introduction to the methods and practices of preservation and reuse of architectural heritage.

ARCH 5566. Architecture Design IX. (2-8) Credit 6 semester hours. Advanced design studio with emphasis on comprehensive architectural design projects.

ARCH 5579. Comprehensive Project Studio. (3-12) Credit 9 semester hours. A comprehensive design project based on research and programming accomplished in ARCH 5513. Prerequisites: ARCH 5513, 5566.

ARCH 5593. Professional Practice. (3-0) Credit 3 semester hours. The ethical, legal and administrative responsibilities of the architect. Relationships between the architect, the client, and the contractor involved in comprehensive architectural services and emerging techniques of practice.

ARCH 5973. Special Topics. Credit 3 semester hours. The study of various specialized fields of architecture as they relate to contemporary social or technical issues. Topics vary by semester. Course may be repeated for credit when topics vary.

ARCH 5976. Special Topics. (2-8) Credit 6 semester hours. Design studio with a focus on a particular issue or area of architecture. Topics vary by semester. Course may be repeated for credit when topics vary.

ARCH 5986. Special Projects. (2-8) Credit 6 semester hours. Design projects of differing lengths and content with group or individual involvement. May be repeated for credit.

ARCH 5993, 5996. Independent Study. (0-0) Credit 3 or 6 semester hours. Readings, research, and/or field work on selected topics. Prerequisite: Consent of advisor.

CODE 5013. Community Development Seminar. (3-0) Credit 3 semester hours. History, theory and practice of the community development profession. Prerequisite: Concurrent enrollment in CODE 5016.

CODE 5016. Community Development Studio I. (2-8) Credit 6 semester hours. A selection of supervised field trips, case studies, research projects and other hands-on community experiences to give students a contextual understanding of the community development profession. Prerequisite: Credit or concurrent enrollment in CODE 5013.

CODE 5023. Advanced Community Development. (3-0) Credit 3 Semester hours. Advanced studies in the history, theory and practice of community development. Prerequisite: CODE 5013

CODE 5026. Community Development Studio II. (2-8) Credit 6 semester hours. Projects and case studies applying community development theory. Prerequisite: Credit or concurrent enrollment in CODE 5023

CODE 5303. Community Political Structure. (3-0) Credit 3 semester hours. The role and function of public and private organizations and local, state and national government in the community development process.

CODE 5313. Community Management and Leadership. (3-0) Credit 3 semester hours. The theory and practice of leadership and management in various community development related settings.

CODE 5323. Community Analysis. (3-0) Credit 3 semester hours. The basic skills of studying and understanding the structure, function, goals, standards and performance of a community.

CODE 5343. Community Research. (3-0) Credit 3 semester hours. Methods for recognizing information needs, sources and applications.

CODE 5353. Resource Development. (3-0) Credit 3 semester hours. The techniques of promoting financial, human and organization support for community development.

CODE 5363. Community Physical Structure. (3-0) Credit 3 semester hours. The physical context of the community and its impact on community health and development.

CODE 5406. Internship. (0-0) Credit 6 semester hours. Approved internship with a community development related organization. Prerequisite: Permission of program coordinator.

CODE 5973. Special Topics. (3-0) Credit 3 semester hours. The study of various specialized fields of community development as they relate to contemporary issues. Topics may vary by semester. Course may be repeated for credit when topics vary.

CODE 5976. Special Topics. (2-8) Credit 6 semester hours. The study of various specialized fields of community development as they relate to contemporary issues. Topics may vary by semester. Course may be repeated for credit when topics vary.

CODE 5993. Independent Study. (0-0) Credit 3 semester hours. Individual reading, research and/or field work in selected topics.

CODE 5996. Independent Study. (0-0) Credit 6 semester hours. Individual reading, research and/or field work in selected topics.

College of Arts and Sciences

ARMY 3313. Small Unit Tactics. (3-0) Credit 3 semester hours. Studies leadership techniques and tactical operations at the small-unit level. An introduction to basic team/squad tactical employment. Instruction covers operation orders, troop leading procedures, and squad movement techniques. Individual skills in map reading, land navigation, basic rifle marksmanship and physical fitness are emphasized. Prerequisites: ARMY 2212, 2222, summer internship or consent of the PMS.

ARMY 3323. Principals and Techniques of Command. (3-0) Credit 3 semester hours. Studies leadership techniques and tactical operations at the small-unit level. In-depth analysis of team/squad tactical procedures and techniques. Instruction covers the principals of offensive and defensive combat operations, patrolling, the decision-making process, troop leading procedures, land navigation, and operation orders. Numerous student oral presentations and practical exercises. Prerequisites: ARMY 3313 or consent of PMS.

ARMY 3371-3381. Leadership Laboratory V and VI. (0-2) Credit 1 semester hour. Considers the fundamentals of leadership. Provides practical exercise in command, organization, and control of small elements, together with physical fitness, using U.S Army Physical Readiness Training program as a model.

ARMY 4413. Army Management and Leadership. (3-0) Credit 3 semester hours. Considers the role of the junior officer in the U.S. Army. Individual motivational and behavioral processes, leadership, communications, financial planning, counseling, command and staff functions are emphasized.

ARMY 4423. Army Administration and Professionalism. (3-0) Credit 3 semester hours. Pre-service overview of Army organizations and general concept of military operations. Includes a study of administration and logistics for junior officers, including many sub-courses in military justice, Army readiness, ethics and professionalism, and a review of the principles of war.

ARMY 4471-4481. Leadership Laboratory VII and VIII. (0-2) Credit 1 semester hour. Considers the fundamentals of leadership. Provides practical exercise in command, organization, and control of small elements, together with physical fitness, using U.S. Army Readiness Training as a model.

BIOL 5003. Research in Zoology. (0-6) Credit 3 semester hours. Selected individual research problems in any specified area in which the student has a sufficient background. Lab fee.

BIOL 5073. Selected Topics in Environmental Toxicology. (3-0) Credit 3 semester hours. In-depth treatments of several important areas in the field of environmental toxicology, including studies of microbiology of toxic substances, toxic substances in food, poisonous plants and venomous animals, occupational health and safety and chemical ecology.

BIOL 5074. Genetics. (2-4) Credit 4 semester hours. Laws and principles governing heredity in plants and animals; plant and animal improvement through eugenics. Lab fee.

BIOL 5094. General Microbiology. (2-4) Credit 4 semester hours. Morphology, physiology, classification, cultivation of micro-organisms and their relation to agriculture, pre-medicine, and industry. Lab fee.

BIOL 5141. Seminar in Biological Problems. (1-0) Credit 1 semester hour. Student participation in general and specific research topics in Biology.

BIOL 5183. Experimental Genetics. (3-0) Credit 3 semester hours. Thorough experimentation to show how variations may be brought about; techniques of mating and breeding to support accepted principles. Lab fee.

BIOL 5991-5993. Independent Study. (0-0) Credit 1-3 semester hours. Reading, research and/or field work on selected topics in Biology. Prerequisite: consent of advisor.

CHEM 5013. Research. (0-0) Credit 3 semester hours. Problems for investigation may be selected from one of the following fields of Chemistry: 1. Analytical; 2. Biochemistry; 3. Inorganic; 4. Organic; and 5. Physical.

CHEM 5023. Research. See CHEM 5013.

CHEM 5026. Research. (0-0) Credit 6 semester hours. Problems for investigation may be selected from one of the following fields of chemistry: 1. Analytical; 2. Biochemistry; 3. Inorganic; 4. Organic; 5. Physical.

CHEM 5313. Advanced Analytical Chemistry. (0-3) Credit 3 semester hours. Fundamental principles and investigation of chemical reactions as they relate to application of classical and modern instrumental methods. Focuses on the processes occurring in sampling, separation and quantitative measurement emphasizing chemical concepts. Prerequisites: CHEM 3413, CHEM 3423, and CHEM 5783.

CHEM 5322. Instrumental Lab. (0-4) Credit 2 semester hours. An integrated laboratory that uses modern instrumentation to analyze complex chemical systems. Theories and principles encountered in CHEM 5313 and CHEM 5323 will provide the basis for bulk, surface, and interfacial analysis at the atomic and molecular levels. Prerequisites: CHEM 5313 and CHEM 5323.

CHEM 5323. Instrumental Analysis. (3-0) Credit 3 semester hours. Fundamental principles and theories underlying modern instrumental methods and techniques for analysis of complex systems. Atomic and molecular level characterization of surfaces, interfaces, and bulk systems will be emphasized. Prerequisite: CHEM 5783.

CHEM 5402. Advanced Organic Chemistry. (2-0) Credit 2 semester hours. A review of elementary Organic Chemistry with an extension of more advanced topics. Includes assigned subject materials.

CHEM 5414. Identification of Organic Compounds. (2-4) Credit 4 semester hours. The separation and identification of pure organic compounds and mixtures.

CHEM 5442. Polymer Chemistry Laboratory. (0-4) Credit 2 semester hours. A laboratory course in polymer chemistry focusing on characterization and synthesis of polymers and copolymer systems. (Concurrent enrollment in CHEM 5443 is required)

CHEM 5443. Polymer Chemistry (3-0) Credit 3 semester hours. Presentation of polymer concepts including polymerization and copolymerization processes, nomenclature, classifications, stereochemistry, structure-property relationships and morphology. Prerequisite: graduate standing or consent of instructor.

CHEM 5534. General Biochemistry. (2-4) Credit 4 semester hours. A basic and extension course designed for graduate students planning to major or minor in Biochemistry or related fields and who require more than an elementary knowledge of the subject. Prerequisite: CHEM 4033 or permission of instructor.

CHEM 5613. Advanced Inorganic Chemistry. (3-0) Credit 3 semester hours. Consideration of important aspects of modern inorganic chemistry. Application of thermodynamics and kinetics in inorganic chemistry; practical and potential applications of inorganic systems. Prerequisites: CHEM 4063 and CHEM 4023

CHEM 5783. Advanced Physical Chemistry. (3-0) Credit 3 semester hours. A lecture course dealing with advanced topics of special interest in modern physical chemistry in areas including experimental and theoretical thermodynamics, chemical kinetics, collision and transition state theories, atomic and molecular spectra, quantum mechanical systems, photochemistry, structure of crystals and liquids, surface chemistry, macro-molecules, and gas phase reactions. Prerequisites: CHEM 3413-3423 and Mathematics through Differential Equations (MATH 2043).

ENGL 5053. Studies in Teaching English. (3-0) Credit 3 semester hours. Special problems, critical study and evaluation of methods of teaching English at secondary level. Prerequisite: Twelve semester hours of English at 3000 level or above and one year of teaching experience.

ENGL 5113. Linguistics and Grammar. (3-0) Credit 3 semester hours. Nature of modern linguistic science and its approach to phonology, morphology, syntax, and semantics; structural, generative-transformational grammar in the linguistic context. Prerequisite: Acceptance to graduate study or to the teacher certification program.

ENGL 5123. Research. (3-0) Credit 3 semester hours. Principles of literary theory and research technique. Pre-thesis research practice. Prerequisite: 27 hours of graduate English courses.

ENGL 5133. Seminar in Thesis Writing. (3-0) Credit 3 semester hours. Application of research skills to thorough development of thesis on topic approved by advisor. Prerequisite: Candidacy for graduate degree.

ENGL 5143. English Workshop. (3-0) Credit 3 semester hours. Lectures and practice exercises for enrichment in language usage and methods of teaching for non-English majors. Advanced study and practice for English majors. Prerequisite: 12 hours of English at 3000 level or above and one year of teaching experience.

ENGL 5156. English Workshop. (6-0) Credit 6. Lectures and practice exercises for enrichment in language usage and methods of teaching for non-English majors. Advanced study and practice for English majors. Prerequisite: 12 hours of English at 3000 level or above and one year of teaching experience.

ENGL 5213. A Study of the Short Story. (3-0) Credit 3 semester hours. The history, art, and techniques of the short story with emphasis on the American short story. Prerequisite: Acceptance to graduate study or to the teacher certification program.

ENGL 5223. The Novel. (3-0) Credit 3 semester hours. The evolution of the English novel, with study of representative novels of the 19th and 20th centuries. Prerequisite: Acceptance to graduate study or to the teacher certification program.

ENGL 5233. Medieval Literature. (3-0) Credit 3 semester hours. Survey, in translation, of major genres, allegory and romance, of English and continental European literature from the beginning through the thirteenth century. Prerequisite: Acceptance to graduate study or to the teacher certification program.

ENGL 5243. Shakespeare. (3-0) Credit 3 semester hours. Shakespeare's art at its maturity, with emphasis on masterpieces of history, romance, and tragedy. Prerequisite: Acceptance to graduate study or to the teacher certification program.

ENGL 5253. Seventeenth Century Literature. (3-0) Credit 3 semester hours. Study of modern and contemporary English and American poets, dramatists, and fiction writers. Prerequisite: Acceptance to graduate study or to the teacher certification program.

ENGL 5263. Seminar in Masterpieces of Literature. (3-0) Credit 3 semester hours. Study and analysis of form, language, and style of English and American masterpieces of literature. Prerequisite: Acceptance to graduate study or to the teacher certification program.

ENGL 5273. Chaucer. (3-0) Credit 3 semester hours. Detailed study of Troilus and Criseyde and selected Canterbury Tales. Prerequisite: Acceptance to graduate study or to the teacher certification program.

ENGL 5313. Literary Criticism. (3-0) Credit 3 semester hours. Survey of critical theories of literature from Plato and Aristotle to the present. Prerequisite: 9 hours of graduate English courses.

ENGL 5993. Independent Study. (0-3) Credit 3 semester hours. Readings, research, and/or field work on selected topics. Prerequisite: Consent of department head.

HIST 5213. Afro-American History. (3-0) Credit 3 semester hours. This course emphasizes the importance of the black contribution to America's history. In examining that history, the course investigates the stereotyped views that have been handed down from one generation to the next, slanted accounts of black experience, apathy of many blacks and prejudices of many whites.

HIST 5313. American Revolution and the Constitution. (3-0) Credit 3 semester hours. An examination of scholarly research into the American Revolution that regards certain aspects of the Revolution as "clinical phenomena" in the development of revolutions in general; ideological background, actionists and vigilantes, the fall of Tory rule, the internal revolution, subsidence of the fever, and the Neuer Ordnung. Prerequisite: Graduate Status.

HIST 5323. Sectionalism and Civil War. (3-0) Credit 3 semester hours. Regional hypothesis; socioeconomic regionalism; government, politics, and the regional compromise in the middle period; important issues and men; Reconstruction and the new nation.

HIST 5353. Economic History. (3-0) Credit 3 semester hours. Historical review of the development of agriculture, commerce, industry, and business from colonial times to the present; social and economic forces in American society with attention to the present; social and economic forces in American society with attention to various mass movements; industrialization for the country and the necessity for governmental regulations; historical interpretation of trade unions, employers' associations, and cooperatives.

HIST 5363. Contemporary United States. (3-0) Credit 3 semester hours. Twentieth century American development: America comes of age; the quest for social justice; the Great Crusade (World War I); postwar normalcy and reaction; democracy in transition-the New Deal; and American leadership in the United Nations.

HIST 5383. American Foreign Relations. (3-0) Credit 3 semester hours. The United States and its relationships with Latin America and the rest of the world. Public opinion and the economy.

HIST 5923. Tools of Scientific History. (3-0) Credit 3 semester hours. History and its relationship to the social sciences; the subject, collection and classification of sources; the criticism of data; exposition or the presentation of historical evidence.

HIST 5993. Independent Study. (0-0) Credit 3 semester hours. Readings, research, and/or field work on selected topics. Prerequisite: Consent of advisor.

MATH 5003. The Real Number System. (3-0) Credit 3 semester hours. The development of the real number system, deductive systems, field properties, order properties, completeness properties, powers and roots, and decimal representation. Prerequisite: Consent of instructor.

MATH 5013. Introduction to Point-Set Theory. (3-0) Credit 3 semester hours. Basic set theory; cardinal and ordinal numbers, countable and well-ordered sets; and the study of the basic properties of metric spaces with an introduction to completeness, separability and compactness. Prerequisite: Consent of instructor.

MATH 5023. Complex Analysis I. (3-0) Credit 3 semester hours. Holomorphic functions, complex integration, residue theorem. Taylor series, Laurent series, conformal mapping, and harmonic functions. Prerequisite: MATH 4033.

MATH 5033. Complex Analysis II. (3-0) Credit 3 semester hours. Infinite products, Weierstrass factorization theorem, Mittag-Leffler's theorems, normal families, Picard's theorem, and Riemann mapping theorem. Prerequisite: MATH 5023.

MATH 5103. Special Problems. (3-0) Credit 3 semester hours. Reading and discussion of articles appearing in various mathematical journals; patterns and techniques of mathematical research; modern techniques and trends in the field of advanced mathematics. Trends in the field of elementary mathematics. Prerequisite: Consent of instructor.

MATH 5113. Elementary Functions. (3-0) Credit 3 semester hours. Real number system, algebraic functions, circular functions, exponential functions, logarithmic functions, hyperbolic functions, and their properties. Prerequisite: Graduate standing in mathematics.

MATH 5123. General Topology I. (3-0) Credit 3 semester hours. Topological spaces including continuous functions, compactness, separation properties, connectedness and metric spaces. Prerequisite: MATH 5013.

MATH 5173. Computer Programming. (3-0) Credit 3 semester hours. Basic computer concepts and terminology. Computer characteristics and storage fundamentals of output and input operations. Flow charts and block diagrams. Programming elementary algorithms using a scientific language. Prerequisite: Consent of instructor.

MATH 5203. Calculus for High School Teachers. (3-0) Credit 3 semester hours. Concise treatment of certain fundamental ideas in the mathematics of the calculus with the intention of extending, illuminating, and clarifying the teacher's past knowledge. Prerequisite: Consent of instructor.

MATH 5233. Selected Topics in Mathematics. (3-0) Credit 3 semester hours. Introduction to symbolic logic and set theory; applications to elementary algebra; linear and plain analytical geometry; and probability statistics. May be repeated for credit. Prerequisite: Consent of instructor.

MATH 5283. Structure of Arithmetic. (3-0) Credit 3 semester hours. Introduction to sets, the number concept, the evolution of numeration systems, modular systems, the number system, measurement, ratio, proportion, and percentage. Prerequisite: Graduate standing in mathematics.

MATH 5293. Logic and Geometry. (3-0) Credit 3 semester hours. Elementary logic, plausible reasoning, informal geometry, and coordinate geometry as a mathematical system. Prerequisite: Graduate standing in mathematics.

MATH 5303. Modern Techniques in Secondary Mathematics. (3-0) Credit 3 semester hours. Teaching strategies; instructional packages composed of modules of various areas and topics of mathematics; performance-based teaching methods; effective use of audiovisual equipment and materials; and small group methods. Prerequisite: Graduate standing in mathematics.

MATH 5343. Boundary Value Problems. (3-0) Credit 3 semester hours. Fourier Series and integrals, application of partial differential equations to problems, including heat flow, fluid flow, electric fields, mechanical vibration, and similar problems arising in chemistry, physics, radiotherapy and engineering. Prerequisite: One course in ordinary differential equations.

MATH 5413. Seminar. (3-0) Credit 3 semester hours. Seminar in mathematics lectures, demonstrations, and reports on current trends in the field of mathematics. Prerequisites: Consent of instructor.

MATH 5443. Statistics for High School Teachers. (3-0) Credit 3 semester hours. Processes of statistical methods, with reference to applications in various fields and with special application to analysis of school data. Prerequisite: One course statistics.

MATH 5473. Probability. (3-0) Credit 3 semester hours. Theory of permutations, combinations, distributions, repeated trials, and discussion of the probability integral. Prerequisite: One course in probability or statistics.

MATH 5543. Integrated Introduction to Geometry. (3-0) Credit 3 semester hours. The origin of geometry; the three classical problems of antiquity; the five Platonic solids; Euclid's elements and fallacies; a modern set of axioms for geometry; geometries in the Euclidean plane; transformation groups; hyperbolic geometry; and elliptic geometry. Prerequisite: Consent of instructor.

MATH 5613. Theory of Matrices. (3-0) Credit 3 semester hours. Definitions in matrix algebra; inverse of a matrix, transposition of a matrix, rank of a matrix, linear transformations; differentiation and integration of matrices; and application of matrices to systems of linear equations; quadratic forms, bilinear forms, and systems of differential equations. Prerequisite: MATH 3013 or 3073.

MATH 5723. Partial Differential Equations. (3-0) Credit 3 semester hours. Existence and uniqueness theorems, techniques for solving first and second order partial differential equations, approximate (numerical) solutions and applications. Prerequisite: MATH 5343.

MATH 5753. Intermediate Analysis. (3-0) Credit 3 semester hours. Continuous functions; sequences; limits of functions; integrable functions; the integral of continuous and bounded functions; series and step-functions. Prerequisite: Consent of instructor.

MATH 5763. Intermediate Differential Equations. (3-0) Credit 3 semester hours. Existence theorems, uniqueness theorems, and vector and matrix treatment of linear and non-linear systems of ordinary differential equations. Prerequisite: MATH 3073 or 4113.

MATH 5773. Advanced Analysis. (3-0) Credit 3 semester hours. Continuous functions of several numbers; properties of functions of several numbers; the double integral; and the Riemann-Stieltjes integral. Prerequisite: MATH 5753.

MATH 5823. Analytic Mechanics. (3-0) Credit 3 semester hours. Axiomatic foundations of mechanics; Newton's laws; harmonic oscillator; planetary motion; non-inertial coordinate systems; systems of particles; plane motion of rigid bodies; space motion of rigid bodies; Lagrange's equations; and Hamilton's principle. Prerequisite: Consent of instructor.

MATH 5893. Thesis Research, A-D. (0-0) Credit 3 semester hours. Research for thesis. Course may be repeated for credit.

MATH 5903. Modern Algebra. (3-0) Credit 3 semester hours. Fundamental concepts of algebra; integral domain, fields, and introduction to such concepts as groups, vector spaces, and lattices. Prerequisite: MATH 3013.

MUSC 5513-5563. Applied Music Courses

PIANO—Applied music studies in piano with attention to appropriate graduate level literature. Private lessons.

VOICE—Applied music studies in voice with attention to appropriate graduate level literature. Private lessons.

WOODWINDS—Applied music students in the woodwind instruments with attention to appropriate graduate level literature. Private lessons. Flute, oboe, clarinet, bassoon and saxophone.

	<i>Piano</i>	<i>Voice</i>	<i>Woodwind</i>
MUSC	5513	5613	5813
MUSC	5523	5623	
MUSC	5533	5633	
MUSC	5543	5643	
MUSC	5553		
MUSC	5563		

MUSC 5993. Independent Study. (0-0) Credit 3 semester hours. Readings, research, and/or field work on selected topics. Prerequisite: consent of advisor.

SOCG 5021. Professional Seminar in Sociology. (3-0) Credit 1 semester hour. Introduction to the discipline of sociology. This course provides students with trends and issues affecting sociology as a Profession. Information about available resources, career preparation including curriculum vita development, professional organizations and meetings as well as other relevant information is provided and evaluated. Must be taken in the first semester.

SOCG 5123. Social Statistics. (3-0) Credit 3 semester hours. This course is designed to enhance students' statistical knowledge of measurement of central tendency, z-test, t-tests, and analysis of variance, correlation techniques and regression analysis.

SOCG 5213. Classical Sociological Theory. (3-0) Credit 3 semester hours. Major sociological contributions of the classical theorists including but not limited to Thomas Hobbes, Auguste Comte, Alexis de Tocqueville, Karl Marx, Emile Durkheim, Max Weber, Harriet Martineau, W.E.B. DuBois, and Jane Addams, providing the foundation for contemporary theory.

SOCG 5223. Research Methods. (3-0) Credit 3 semester hours. Advanced instruction in sociological research requiring a detailed treatment of qualitative and quantitative techniques of data collection and analysis. Written paper based on original research required.

SOCG 5243. Urban Sociology. (3-0) Credit 3 semester hours. Examines the social structure of cities and the adjustment people make to urban conditions. Urban neighborhoods, population groupings, social processes, trends and problems are treated in the light of historical, ecological and social factors. A review of selected problems including urban tensions and the persistence of local ties such as family and ethnicity are explored.

SOCG 5263. Sociology of Education. (3-0) Credit 3 semester hours. Exploration of knowledge in society and its relationship to the social structure and individual consciousness; how the social attributes of groups as well as individuals affect the production, ordering, and presentation of information as well as the form knowledge takes in a particular society.

SOCG 5333. Criminology. (3-0) Credit 3 semester hours. A survey of the historical and contemporary explanations of phenomena of crime and criminal behavior from the perspective of contemporary theories and the analysis of evidence supportive of various theoretical positions. Crime measurement and crime statistics are also discussed, as are the techniques for crime analysis.

SOCG 5353. Seminar in Race Relations. (3-0) Credit 3 semester hours. Wide range exploration of the dynamics of inter-group relations including historical and sociological factors in race and ethnic relations. An examination of politico-economic and societal development processes that serve to maintain social positions in contemporary society.

SOCG 5413. Contemporary Sociological Theory. (3-0) Credit 3 semester hours. Basic ideas of contemporary sociological theory: structuralism, functionalism, conflict, symbolic interaction, exchange; includes but not limited to the works of Parsons, Merton, Mead, Cooley, Goffman, Coser, Dahrendorf, Marcuse and Habermas and their application to current research. Prerequisite: SOCG 5213.

SOCG 5423. Social Stratification. (3-0) Credit 3 semester hours. Analysis of the nature of social stratification and its relation to other aspects of society: distribution of influence and wealth occupational structural, family relations, religious and educational institutions, minority problems, and cultural patterns. Comparison between open class, caste and other arrangements. Sources of mobility and change in stratification systems. Also addresses the impact of different forms of ranking and the consequent inequalities that arise.

SOCG 5433. Theory of Criminal Justice System. (3-0) Credit 3 semester hours. Theoretical analysis of crime and criminal justice systems including the police, courts and prisons that deal with people who are accused of having committed crimes. Theories of crime commission include: Differential Association

Theory, Control Theory, Labeling Theory, Strain Theory, and Illegitimate Opportunity Theory among others.

SOCG 5443. Social Movements. (3-0) Credit 3 semester hours. Examination of theories and research on social movement and social change; historical and contemporary social movements in the United States and elsewhere; collective violence and protest; terrorism and social and political revolutions.

SOCG 5453. Complex Organizations. (3-0) Credit 3 semester hours. Introduces students to the critical examination of modern organizations, the nature of bureaucracy and its effect on personality, social relations, group dynamics and social change. Examines bureaucratic arrangements and processes in a variety of organizational context such as corporations, universities, unions, professionals associations, government bureaus and religious institutions. The role of power in bureaucratic settings and exchanges is explored.

SOCG 5463. Special Topics. (3-0) Credit 3 semester hours. Seminar on specialized topics in sociology. Subject matter may vary by semester. May be repeated for credit when topics vary.

SOCG 5553. Sociology of Gender and Sex Roles. (3-0) Credit 3 semester hours. Analyzes the social significance of gender. Explores the theoretical assumptions that undergird the nature of women's oppression sex-class-race cleavage, plus inequalities between women and men. A cross-cultural analysis of the development of gender roles and an examination of contemporary gender inequality in terms of gender work patterns, labor force participation, and occupational mobility as well as alternatives to conventional division of labor by sex in society.

SOCG 5613. Thesis. (0-0) Credit 3 semester hours. A candidate for the Master of Sociology is required to prepare a thesis under the direction of a faculty thesis committee. The thesis must be orally defended and approved by all members of the faculty thesis committee before the degree is conferred. The student must register for thesis each semester until satisfactorily completed

SOCG 5623. Thesis. (0-0) Credit 3 semester hours. A candidate for the Master of Sociology is required to prepare a thesis under the direction of a faculty thesis committee. The thesis must be orally defended and approved by all members of the faculty thesis committee before the degree is conferred. The student must register for thesis each semester until satisfactorily completed. Prerequisite: SOCG 5613.

College of Business

ACCT 5003. Concepts of Accounting. (3-0) Credit 3 semester hours. Builds a solid foundation of basic accounting concepts and principles. The course includes an emphasis on the accounting cycle, financial reporting of Balance Sheet, Income Statement, and Statement of Cash Flows. The course also includes contemporary manufacturing accounting tools. These topics include cost-volume-profit analysis, inventory management, and comparative cost allocation systems.

ACCT 5103. Managerial Accounting. (3-0) Credit 3 semester hours. The interpretation and use of accounting data for management purposes. Topics covered include: cost accounting; budgets; standards; production costing; distribution costing; and special analyses for managerial purposes. Prerequisite: ACCT 5003 or equivalent.

ACCT 5113. Advanced Auditing. (3-0) Credit 3 semester hours. An advanced study of the practices and principles that guide the auditing environment. Specialty topics will be introduced, as well as current readings in auditing literature.

ACCT 5123. Accounting Information Systems & Controls. (3-0) Credit 3 semester hours. A study of the analysis, design, installation, and operations of an accounting information system. Emphasis will be placed on system design and acquisition.

ACCT 5133. Accounting for Managerial Decision-Making. (3-0) Credit 3 semester hours. A study of the preparation of internal reports for decision-making, planning and control. Additional areas of study include cost determination, budgeting, and quantitative techniques.

ACCT 5143. Accounting Theory. (3-0) Credit 3 semester hours. Development of the theory of accounting with particular emphasis on concepts, income measurement, valuation of assets, valuation and measurement of equities, and the application of accounting theory to contemporary problems.

ACCT 5153. Seminar in Tax Consulting, Planning, & Research. (3-0) Credit 3 semester hours. A study of the current practice of tax consulting. Particular emphasis will be placed on the specialty area of tax planning and the research component.

ACCT 5163. Law & Ethics for Accountants. (3-0) Credit 3 semester hours. A study of the legal, regulatory, and ethical issues of business. Special emphasis will be placed on issues pertaining to accounting.

ADSY 5203. Managerial Communication. (3-0) Credit 3 semester hours. Applications of communications theory, human relations concepts, research methods, and information technology to the internal communication of the manager's work environment. Survey of the organizational communication climate; applications: Oral and written reports.

ADSY 5513. Management Information Systems. (3-0) Credit 3 semester hours. Analysis and synthesis of the principal interactions among the components of a company and its environment; establishing system requirements and developing control procedures to increase effectiveness. Examines methods to evaluate the effectiveness and efficiency of systems. Includes hands-on introduction to computer application software used by contemporary managers.

ECON 5003. Concepts of Economic Analysis. (3-0) Credit 3 semester hours. Analysis of supply and demand, production and cost functions, price and output determination under different market conditions, and resource pricing. Means of national income and output determination, and issues related to unemployment, inflation, business cycles, monetary and fiscal policies, income distribution, economic development issues, and the global linkage of national economies.

ECON 5103. Managerial Economics. (3-0) Credit 3 semester hours. Economic theory and tools needed to make sound managerial decisions for optimal outcomes; theoretical and empirical demand functions; theoretical and empirical production and cost functions; profit maximization under different market conditions, over time and under uncertainty; game theory; economics of information; government in the market place. Prerequisite: ECON 5003 or equivalent.

FINA 5003. Concepts of Finance. (3-0) Credit 3 semester hours. An overview of financial securities and markets, financial statement analysis, cash budgeting, working capital management, time value of money, valuation of securities, and capital budgeting.

FINA 5013. Legal Environment of Business. (3-0) Credit 3 semester hours. Introduces the student to the legal and social environments in which business decisions are made, Examines the business relationship within the regulatory environment, judicial process, and constitution. Covers the law and its effect on consumers, investors, and the environment as well as regulation of competition, labor, and employment.

FINA 5103. Theory of Financial Management. (3-0) Credit 3 semester hours. Risk-return analysis, cost of capital, cash-flow analysis in capital budgeting, capital structure policy, dividend policy, corporate restructuring, and international financial management. Prerequisite: FINA 5003 or equivalent.

FINA 5313. Investment Analysis and Management. (3-0) Credit 3 semester hours. Fundamentals of investment, investment securities and markets, analysis of risk and return, fixed income securities and valuation, common stock and valuation, mutual funds, options and futures, portfolio theory and management. Prerequisite: FINA 5003 or consent of advisor.

FINA 5333. International Finance. (3-0) Credit 3 semester hours. International financial markets and the flow of funds, interrelation of foreign exchange rates, interest and inflation rates, financial risk management for multinationals, short and long-term financing for multinationals, multinational capital budgeting, direct foreign investment, country risk analysis, and international banking. Prerequisite: FINA 5003 or equivalent.

MGMT 5103. Organizational Behavior. (3-0) Credit 3 semester hours. A study of social science concepts relevant to understanding and predicting human behavior in organizations. Topics include perception, learning, group processes, motivation and leadership, and organizational structure and change. Prerequisite: MGMT 5003 or equivalent.

MGMT 5113. Business Statistics. (3-0) Credit 3 semester hours. Review of statistical measures, tests of hypotheses, analyses of variance, and specialized correlation techniques as applied to business data.

MGMT 5123. Quantitative Analysis. (3-0) Credit 3 semester hours. Application of quantitative methods to solution of business problems, including linear programming, integer programming, dynamic programming, goal programming, network models, transportation methods, inventory models, and decision-making under uncertainty. Prerequisite: MGMT 5113.

MGMT 5323. Strategy and Policy. (3-0) Credit 3 semester hours. Examines top management strategy, formulation, implementation, and evaluation. This course is the MBA capstone which synthesizes and integrates material from the various functions of business as it presents itself to organizational strategic managers. Prerequisite: 12 hours of graduate management courses, and ACCT 5103; ECON 5103; FINA 5103, MRKT 5303.

MGMT 5343. Human Resource Management. (3-0) Credit 3 semester hours. An analysis of the methods and issues pertaining to the recruitment, selection, testing, promotion, and remuneration of members of organizations. Covers job design and labor relations concepts.

MGMT 5433. Production and Operations Management. (3-0) Credit 3 semester hours. Organization for production and analysis of production methods. Techniques addressed include forecasting models; capacity, location and layout analysis; inventory management; material requirements planning; scheduling; project management; network analysis; quality control. Prerequisite: MGMT 5123.

MGMT 5613. Special Topics. (3-0) Credit 3 semester hours. Explores and examines contemporary subjects and trends in business. Topics deal with issues of current importance. Prerequisite: Consent of advisor.

MRKT 5003. Concepts of Marketing. (3-0) Credit 3 semester hours. Surveys the different aspects of the marketing function including the institutions involved in the creation, distribution, and sale of products and services. Addresses the issues of product, price, promotion, and distribution.

MRKT 5303. Marketing Management. (3-0) Credit 3 semester hours. Application course dealing with formulation of marketing strategies, evaluation of alternatives, and implementing a marketing program. Examines segmentation, positioning, and marketing mix issues as part of strategic marketing planning. Includes discussion of specific problems involving consumer and industrial products and services in profit and not for profit organizations. Prerequisite: MRKT 5003 or equivalent.

MRKT 5313. International Marketing. (3-0) Credit 3 semester hours. Analysis of the economic, political, social and cultural environments of international business and the development of product, price, channels of distribution, and promotion strategies for international markets. Prerequisite: MRKT 5003 or equivalent.

College of Education

ADMN 5003. Fundamentals of School Administration. (3-0) Credit 3 semester hours. A study of educational administration, basic concepts of administrative theory and practice, and the relationship of administrative practice to school organization and control.

ADMN 5013. Educational Administration: Theory, Practice and Research. (3-0) Credit 3 semester hours. The analysis and study of theory, practice, and research as they relate and interrelate to effective educational management. This course includes an in-depth study of contemporary research and practice in educational administration.

ADMN 5023. Public School Law. (3-0) Credit 3 semester hours. An examination and study of legal principles as they apply to public education.

ADMN 5033. School Business Management. (3-0) Credit 3 semester hours. Management techniques for the school administrator in the areas of preparing and managing the school budget, in-school accounts, and the financial auditing process.

ADMN 5043. The School Principalship. (3-0) Credit 3 semester hours. Problems in elementary and secondary school administration with emphasis on the organization, administration, and supervision of curricular and extra-curricular programs, and the management of school personnel and students.

ADMN 5053. Administration of Special Programs. (3-0) Credit 3 semester hours. Administrative and management techniques for implementing special school programs in the areas of special education, reading, career education, vocational-technical education and pupil services.

ADMN 5063. Problems in Education Administration. (3-0) Credit 3 semester hours. Study and analysis of contemporary issues related to the administrative function in an educational setting.

ADMN 5073. Public School Curriculum Leadership. (3-0) Credit 3 semester hours. An examination of educational leadership as it relates to curriculum development and improvement. Consideration is given to the administrator's role in identifying and implementing innovations in curriculum construction at all levels; furnishing leadership in coordinating educational offerings in elementary and secondary schools; diagnosing and prescribing learning activities for all students' needs; planning and evaluating curriculum content and changes; and designating personalized programs in specific skill areas such as reading, math, etc.

ADMN 5083. Special Topics in Educational Administration. The purpose of this course is to provide students an opportunity to research selected topics in an identified area of educational administration.

ADMN 5093. Educational Statistics. (3-0) Credit 3 semester hours. Basic educational statistics course for master's degree candidates in administration. Includes concepts and operations as applied to frequency distributions, graphing techniques, measurement of central tendency and variability, normal distribution curves, sampling theory and tests of significant differences between related and independent samples. Computer application packages and their utilization in classrooms and social agencies are also introduced.

ADMN 5103. School Personnel Administration. (3-0) Credit 3 semester hours. The administration of school personnel services, including standards and procedures of the personnel office and the supervision and evaluation of personnel records and policies.

ADMN 5113. Planning and Managing Educational Facilities. (3-0) Credit 3 semester hours. Educational facilities planning with emphasis on design, financing, and management.

ADMN 5123. School Finance. (3-0) Credit 3 semester hours. Fiscal planning for educational excellence. Includes systems of needs assessment, budget preparation, and management. Federal, state, and local resources for financing education.

ADMN 5133. School-Community Relations. (3-0) Credit 3 semester hours. A study of the relationships between the school and other elements of the community. Insight into the development of a comprehensive school-community relations program.

ADMN 5163. Research. (3-0) Credit 3 semester hours. General orientation research course for master's degree candidates in administration. The course considers the nature of research problems and techniques used by investigators in solving those problems. Study is made of types and methods of educational research, the collecting of data, analyzing and sharing of data with public. The student is expected to complete a research project or field study utilizing appropriate methods of educational research.

ADMN 5173. Computer Applications for Administrators. (3-0) Credit 3 semester hours. Application of computers and selected software to information management, scheduling, and other functions of administrators.

ADMN 5503. Mid-Management Internship. (0-3) Credit 3 semester hours. Field-based and seminar experiences designed to provide on-site school-related activities, and the analysis of actual administrative situations and problems. Prerequisites: 18 semester hours of ADMN course work.

ADMN 5513. Superintendency Internship. (0-3) Credit 3 semester hours. Field-based and seminar experiences designed to provide on-site school-system related activities, and the analysis of actual administrative situations and problems.

ADMN 5991-5992-5993. Independent Study. (0-0) Credit 1, 2, or 3. Readings, research, and/or field work on selected topics. Prerequisite: consent of advisor.

CNSL 5003. Organization and Administration of Guidance and Human Service Programs. (3-0) Credit 3 semester hours. Introduction to guidance and counseling programs in schools and community agencies. Emphasis on the history, philosophy, and development of programs; programmatic activities and delivery; organizational and administrative patterns; and the interrelationships of educational and human services agencies.

CNSL 5013. Counseling Techniques. (3-0) Credit 3 semester hours. Study and practice of basic interview communication skills and counseling techniques. Emphasis on self-development, attending, feedback and influencing skills and core elements of counseling.

CNSL 5023. Theory and Practice of Counseling. (3-0) Credit 3 semester hours. A study of major counseling theories and issues related to therapeutic practice with emphasis on practical application.

CNSL 5033. Counseling Process. (3-0) Credit 3 semester hours. Pre-practicum experience with emphasis on the counselor-client relationship and on using appropriate therapeutic strategies and techniques in working with children, adolescents, and adults. Special consideration given to the counseling needs of minorities.

CNSL 5043. Consultation. (3-0) Credit 3 semester hours. Theoretical rationale for consultation; content and process of consultation services. Basic principles of and skill development in several approaches to consultation.

CNSL 5053. Professional Orientation and Development. (3-0) Credit 3 semester hours. Obligations and problems in professional practice of guidance, counseling, human development services and research. Professional ethics, legal considerations, and relations with other professionals and with the public. Current trends and issues emphasized.

CNSL 5063. Counseling Practicum I. (3-0) Credit 3 semester hours. Laboratory and supervised practical experiences in individual/group counseling and related functions in a public school, a university, or a community agency setting. A minimum of 150 clock hours required. Prerequisites: CNSL 5013, 5023, 5113, and 5123 and/or consent of advisor.

CNSL 5073. Counseling Practicum II. (3-0) Credit 3 semester hours. A continuation of supervised practical experiences in individual/group counseling and related functions in a public school, a university, or a community agency setting. A minimum of 150 clock hours required. Prerequisites: CNSL 5013, 5023, 5063, 5113, and 5123 and/or consent of advisor.

CNSL 5083. Psychology of Abnormal Behavior. (3-0) Credit 3 semester hours. An examination of dysfunction in human behavior, with emphasis on description, causation, and treatment.

CNSL 5093. Educational Statistics. (3-0) Credit 3 semester hours. Basic educational statistics course for master's degree candidates in counseling. Includes concepts and operations as applied to frequency distributions, graphing techniques, measurement of central tendency and variability, normal distribution curves, sampling theory and tests of significant differences between related and independent samples. Computer application packages and their utilization in classrooms and social agencies are also introduced.

CNSL 5113. Career Development Counseling. (3-0) Credit 3 semester hours. A study of major vocational development and career choice theories. Sources and use of educational and career information; community resources; and use of interest and aptitude instruments in career/vocational decision-making. Individual and group career counseling practice emphasized.

CNSL 5123. Appraisal Techniques. (3-0) Credit 3 semester hours. An examination of several instruments used to measure achievement, aptitude, interest and personality, and to collect non-test data. Emphasis on selection and use of these instruments for individual and group assessment, and on techniques of interpretation. Ethical and legal issues of testing addressed.

CNSL 5133. Group Dynamics. (3-0) Credit 3 semester hours. Theory and practice in group work. Examination of types of groups; group processes and theories; techniques and methods of practice in group counseling. Ethical and professional issues addressed. Group participation and facilitation required.

CNSL 5143. Human Growth and Development. (3-0) Credit 3 semester hours. A study of the growth and development of the individual. Emphasis on stages of human intellectual, physical, social, and emotional development throughout the lifespan.

CNSL 5153. Cross-Cultural Issues. (3-0). Credit 3 semester hours. A study of the sociological and cultural factors impacting individuals within a multi-cultural setting. Emphasis on understanding, serving, and managing in multi-racial, multi-ethnic, and multi-cultural settings.

CNSL 5163. Research. (3-0) Credit 3 semester hours. General orientation research course for master's degree candidates in counseling. The course considers the nature of research problems and techniques used by investigators in solving those problems. Study is made of types and methods of educational research, the collecting of data, analyzing and sharing of data with public. The student is expected to complete a research project or field study utilizing appropriate methods of educational research.

CNSL 5993. Independent Study. (3-0) Credit 3 semester hours. Readings, research, and/or field work on selected topics. Prerequisite: consent of advisor.

CUIN 5003. Foundations of Secondary Schools of the State and Nation. (3-0) Credit 3 semester hours. A university based course designed with a field component for graduate students seeking initial certification in secondary education. The course focuses on the internal and external factors which contribute to school culture. The student studies how teacher-teacher relationships, teacher-pupil relationships, and school-home relationships impact student learning. The student also investigates the requirements, expectations, and constraints associated with teaching in Texas and understands his or her role in operating effectively as a teacher in Texas.

CUIN 5013. Developmental Characteristics of Secondary School Youth. (3-0) Credit 3 semester hours. A university based course designed with a field component for graduate students seeking initial certification in secondary education. The course focuses on the developmental characteristics of secondary school youth which can have an impact on the accomplishment of learner outcomes. Contemporary models of human growth and development are investigated with emphasis being placed on individual differences in physical, emotional, social and intellectual growth. An analysis of the needs of students with differences in culture, learning styles, self-concept, values, and family/peer/school relationships is accomplished.

CUIN 5023. Strategies for Planning and Assessing Instruction. (3.0) Credit 3 semester hours. A proficiency-driven course designed with a field component for graduate students seeking initial certification in secondary education. The course focuses on strategies documented as effective in planning learner centered instruction for students representing various learning levels/styles. Informal and formal assessment strategies which are designed to determine the degree to which learners are accomplishing in predetermined objectives are also analyzed. During the field experiences the student demonstrates that he/she can utilize the strategies in constructing learner centered lesson plans and assessment tools. Prerequisites CUIN 5003 and CUIN 5013.

CUIN 5033. Research-Based Methods for Classroom Instruction and Management. (3.0) Credit 3 semester hours. A proficiency-driven course designed with a field component for graduate students seeking initial certification in secondary education. The course focuses on effective teaching practices which have been documented as effective in creating a positive learner centered environment, managing individuals and groups through the learning process, and utilizing instructional strategies which maximize student participation in the learning process. During field experiences, the student demonstrates having the ability to utilize pre-planned strategies with students representing varying learning levels/styles. Prerequisites CUIN 5003 and CUIN 5013.

CUIN 5043. Post-Baccalaureate Internship: Phase I. (3.0) Credit 3 semester hours. A one semester internship for graduate students who are seeking initial certification in secondary education. The Phase I internship must be completed during the fall semester when the student works as a "teacher of record" under the guidance of an assigned mentor. Performances of the intern are evaluated by the assigned mentor, the building principal and an assigned university supervisor. A grade of "Incomplete" will be awarded at the end of the Phase I Internship with a final grade being awarded at the end of Phase II Internship.

CUIN 5053. Post-Baccalaureate Internship: Phase II (3.0) Credit 3 semester hours. A one semester internship for graduate students who are seeking initial certification in secondary education. The Phase II Internship must follow the completion of the Phase I Internship and must be completed during the spring semester when the student is employed as a "teacher of record" under the guidance of an assigned mentor. The performances of the student during the Phase II Internship is evaluated by the mentor, building principal, and university supervisor. Grades for the two semesters of internship (Phase I and Phase II) will be awarded at the end of Phase II.

CURR 5003. Theory and Dynamics of Curriculum and Instruction. (3-0) Credit 3 semester hours. A curriculum of theoretical and logical structures that exceeds the essential elements and promotes higher thinking skills, explores consideration of implications for bilingual, migrant and exceptional education. Expands integration of technology in influencing implementation, planning and evaluation of curriculum at all levels of teaching.

CURR 5133. Principles of Instructional Design. (3-0) Credit 3 semester hours. Development of competencies related to translating general and theoretical knowledge about learning and instruction into specifications for materials, devices, or settings.

CURR 5143. Managing Classroom Interaction. (3-0) Credit 3 semester hours. Identification of a practice with the skills and dynamics of instructional behavior. Examination of the predictability of student response behavior when strategies are selected according to pre-determined criteria.

CURR 5503. Curriculum Evaluation. (3-0) Credit 3 semester hours. An examination of the several procedures used to evaluate curricular materials and development activities. Formative and summative evaluation methodologies are compared and contrasted and the consequences of model evaluative systems demonstrated.

CURR 5993. Independent Study. (3-0) Credit 3 semester hours. Readings, research, and/or field work on selected topics. Prerequisite: consent of advisor.

ECED 5303. Development of the Young Child. (3-0) Credit 3 semester hours. A study of the sequential stages of growth and maturation of the young child to include physical, social, emotional and cognitive development.

ECED 5313. Foundations of Early Childhood Education. (3-0) Credit 3 semester hours. An overview of the historical, philosophical, and theoretical development of early childhood and its relationship to child development.

ECED 5323. Methods and Materials for Teaching Young Children. (3-0) Credit 3 semester hours. A study of the teaching strategies, techniques and materials designed to enhance learning experiences for young children.

ECED 5333. Assessment Techniques in Early Childhood Education. (3-0) Credit 3 semester hours. A study of evaluative instruments appropriate for the assessment of young children's intellectual, social and motor development. Practical experiences are provided in test administration, scoring, interpretation and utilization of results.

ECED 5343. Organization and Administration of Programs for Young Children. (3-0) Credit 3 semester hours. An examination of the organization and administration of early childhood programs with emphasis on early childhood. A study of the impact of legislation and professional organizations on program operations.

ECED 5353. Seminar in Early Childhood Education. (3-0) Credit 3 semester hours. An analysis of current research literature trends and issues in Early Childhood Education.

ECED 5363. Early Childhood Practicum. (3-0) Credit 3 semester hours. Planned observation and interaction experiences with young children in a classroom setting. Organized feedback sessions are provided in structured seminars.

EDFN 5103. Foundations of Educational Research. (3-0) Credit 3 semester hours. Basic concepts of research design, strategies of experimental, historical and descriptive research, and basic statistical procedures are introduced.

EDFN 5113. Psychology of Learning and Development. (3-0) Credit 3 semester hours. An analysis of mental processes involved in learning the developmental relationship of these processes. In-depth study of major theories which relate learning, development, and physiology.

EDFN 5123. Socio-Cultural Issues in Education. (3-0) Credit 3 semester hours. An analysis of historical, philosophical, and multi-cultural issues in American education and their implications for the setting of standards that govern educational policy and practice.

EDFN 5143. Advanced Educational Statistics. (3-0) Credit 3 semester hours. Computer applications and Statistical used in educational measurement and research design, analysis of variance, and introduction to non-parametric statistics. Prerequisite: EDFN 5103.

EDFN 5903. Thesis Research. (3-0) Credit 3 semester hours. Selection, preparation, and presentation of a research proposal for purposes of completing thesis requirement. Prerequisite: admission to candidacy and approval of thesis advisor.

EDFN 5923. Master's Seminar. (3-0) Credit 3 semester hours. Investigation and analysis of research in the field of curriculum and instruction. Major paper a requirement for this course. Prerequisite: EDFN 5103.

EDTC 5403. Audiovisual Materials in Instruction. (3-0) Credit 3 semester hours. Theoretical and practical experience in the use of instructional media, materials selection, evaluation, and equipment operation for classroom instruction.

EDTC 5423. Reference and Bibliography. (3-0) Credit 3 semester hours. The theory and principles underlying reference selection, information collection, and reference services. Theory and purpose of bibliography as form of access to information collection, introduction to communication, question-negotiation, and search strategy.

EDTC 5433. Acquisition and Cataloging of Materials and Information. (3-0) Credit 3 semester hours. Principles of acquisition, descriptive cataloging, classification, and subject analysis of print and non-print materials. Application of the Dewey Decimal and Library of Congress classification systems.

EDTC 5443. Local Production of Instructional Materials. (3-0) Credit 3 semester hours. The development of competencies related to translating specifications for instructional materials into prototype, final version, and/or mass-produced products.

EDTC 5453. Children and Young Adult Literature. (3-0) Credit 3 semester hours. Advanced study for librarians and teachers of books and other materials for children and young people. Wide reading of books and magazines and the examination of non-print materials.

EDTC 5463. School Media Centers. (3-0) Credit 3 semester hours. Study of the theoretical foundations and objectives of school libraries and media centers; factors to be considered in planning and developing a media center. Consideration of interpretation of media centers; administrative programs in technical services; problems in technical services; and professional literature.

EDTC 5473. Practicum. (3-0) Credit 3 semester hours. Identifying current trends of managing media centers and interfacing experience with theoretical and scientific concepts in public school setting.

ELED 5113. Teaching/Learning Styles In Elementary Classrooms. (3-0) Credit 3 semester hours. Study of effective instructional performances and effective student learning in elementary classrooms. Analysis of research findings and experiments related to teaching/learning situations.

ELED 5123. Studies In Elementary Education. (3-0) Credit 3 semester hours. Investigation of instructional problems, trends, and research related to the development of educational programs for elementary school children.

ELED 5133. Seminar In Elementary Education. (3-0) Credit 3 semester hours. Analysis of contemporary issues in elementary education; problems and challenges associated with teaching/learning and the education profession.

ELED 5143. Individualizing Instruction in Elementary Classrooms. (3-0) Credit 3 semester hours. Evaluation and creative ideas for educational software programs in computer instruction; self-paced evaluation techniques, logical reasoning activities and materials for diagnostic and prescriptive teaching in elementary classrooms.

ELED 5153. Classroom Communication. (3-0) Credit 3 semester hours. Study of the role of communication in the teaching/learning process in elementary classrooms. Analysis of the relationship between verbal and nonverbal messages, classroom management skills, instructional communication and student performances.

HLTH 5043. Alcohol and Drugs. (3-0) Credit 3 semester hours. Development and evaluation of educational approaches for primary and secondary prevention of alcohol and other drug abuse and misuse within populations in elementary and secondary schools, businesses, health agencies, higher education and general communities.

HLTH 5063. Human Behavior and Health Education. (3-0) Credit 3 semester hours. Analysis of social, psychological and cultural determinants of health related behaviors. Critical review of each factor for interpretation and application in a variety of settings, including classrooms, worksites, health care agencies, and higher education centers.

HLTH 5073. Epidemiology and Diseases. (3-0) Credit 3 semester hours. Epidemiologic methods for administrators, policy analysts, and education planners. Identification of and analysis factors influencing infections and chronic diseases in groups of people with a variety of community settings, including schools, businesses, industry, and the health care market.

HLTH 5133. Seminar- Selected Topics. (3-0) Credit 3 semester hours. Etiology, epidemiology and impact of health-related behaviors on illness and wellness within specific populations which may impact school, occupational and community health.

HLTH 5143. Medical Foundations for Health Professions. (3-0) Credit 3 semester hours. Medical and psychosocial approaches to disease detection, prevention and rehabilitation. Emphasis on current trends for the advancement of primary health in school groups, public communities, and special populations.

HLTH 5173. Nutrition and the Environment. (3-0) Credit 3 semester hours. Understanding natural principles underlying health issues related to human ecology, nutrition, and non-infectious disease control and population problems.

HLTH 5183. Contemporary Health (3-0) Credit 3 semester hours. Review of factors relating to selected high morbidity and mortality in urban and rural environments. Study of related psycho-social health problems faced by practicing health educators in a dynamic health care market involving school-based and community-based populations.

HLTH 5193. Community Health (3-0) Credit 3 semester hours. Examination of the mission, goals, and policies of community and public health. Current principles, practice models, functions, roles, issues, and policies are critically analyzed.

HLTH 5991-5992-5993. Independent Study. (0-0) Credit 1, 2, or 3 semester hours. Readings, research, and/or field work on selected topics. Prerequisite: consent of advisor.

PHED 5103. Psychology of Motor Learning. (3-0) Credit 3 semester hours. Learning process in motor skills as the foundation of teaching methods in physical education activities. Practical experience in testing theories.

PHED 5113. Supervision in Physical Education. (3-0) Credit 3 semester hours. Study of principles and practices of educational supervision and their application to physical education.

PHED 5123. Scientific Foundations of Physical Education. (3-0) Credit 3 semester hours. Study of the scientific foundations of physical activity as they relate to biological, psychological, sociological, and biomechanical factors in the teaching of physical education.

PHED 5133. Physical Education Curriculum. (3-0) Credit 3 semester hours. Study of activities, aims, objectives, and outcomes as they relate to courses and their construction. Development of a course of study based on individual student needs.

PHED 5203. Physiology of Muscular Exercises. (3-0) Credit 3 semester hours. Physiological effects of exercise upon the body. Basic physiological concepts and their relation to the total physical education program.

PHED 5303. Tests and Measurements. (3-0) Credit 3 semester hours. Design and methodologies for health education and physical education. Data collection, statistical applications, analyses, interpretation for evaluation and reporting. Prerequisites: Consent of advisor.

PHED 5343. Professional Preparation in Health, Physical Education, Recreation, and Dance. (3-0) Credit 3 semester hours. Focus on professional preparation for those students who are teachers and/or administrators of health, physical education, recreation, or dance.

PHED 5353. Mainstreaming in Health, Physical Education, Recreation, and Dance. (3-0) Credit 3 semester hours. Principles and methods of providing educational services for handicapped students in the least restrictive environment.

PHED 5503. Teaching Physical Education. (3-0) Credit 3 semester hours. A study of traditional and innovative teaching techniques in physical education, including the practical application of teaching styles.

PHED 5703. Kinesiology. (3-0) Credit 3 semester hours. Muscular and bone structure of the body in relation to the science of movement; joint mechanism and muscle action with special application to sports participation and training.

RDNG 5613. Teaching Reading in the Elementary Grades. (3-0) Credit 3 semester hours. Detailed consideration of problems involved in selection of content, grade placement, methods, and materials, and the evaluation of achievement.

RDNG 5623. Psychology of Reading and Reading Difficulties. (3-0) Credit 3 semester hours. An examination of social and psychological factors related to success and failure in learning to read.

RDNG 5633. Teaching Reading in Secondary Schools. (3-0) Credit 3 semester hours. Instructional approaches to reading in the secondary school. Planning, organizing, implementing, and evaluating instructional procedures and outcomes.

RDNG 5643. Diagnosis and Correction of Reading Difficulties. (3-0) Credit 3 semester hours. Diagnostic devices and techniques for identifying strengths and weaknesses in reading. Prescriptive techniques for overcoming difficulties in reading.

RDNG 5663. Clinical Experiences in Reading. (3-0) Credit 3 semester hours. Case study analysis, seminars, and field experiences in school classrooms. Prerequisite: Consent of instructor.

RDNG 5673. Issues, Problems and Trends in Reading. (3-0) Credit 3 semester hours. Study of historical, current and future issues, problems and trends in reading at the elementary and secondary school levels.

SCED 5503. Principles of Secondary Education. (3-0) Credit 3 semester hours. Origins, development and organization of the secondary school. Contemporary problems and trends in secondary education are identified and studies.

SPED 5513. Secondary School Curriculum. (3-0) Credit 3 semester hours. Characteristics and organization of curriculum and teaching in secondary schools. Relationships to socio-cultural influences in society and within the schools.

SPED 5203. Special Education Seminar. (3-0) Credit 3 semester hours. A seminar designed to investigate contemporary issues in the area of special education as well as to increase the students' familiarity with current literature and knowledge in the field.

SPED 5213. Introduction to Exceptional Children. (3-0) Credit 3 semester hours. An in-depth study of the various types of exceptional learners and their educational needs.

SPED 5223. Psychology of Retarded Children. (3-0) Credit 3 semester hours. Designed to provide the learner with an overview of various tests, learning characteristics and etiology of the exceptional individual.

SPED 5233. Language and Communication Problems. (3-0) Credit 3 semester hours. An overview of particular communication problems as they relate to the oral language skills of the exceptional learner. Prerequisites: SPED 5213; 5243, and consent of program coordinator.

SPED 5243. Methods for the Exceptional Learner. (3-0) Credit 3 semester hours. Deals with problems of instruction, methods of teaching retarded children and learning disabled, organization of special classes and curriculum development for the exceptional learner.

SPED 5263. Diagnostic and Prescriptive Techniques for the Exceptional Learner. (3-0) Credit 3 semester hours. Designed to provide the opportunity for students to experience and develop a descriptive orientation of the learning disabled student. Prerequisites: SPED 5213, 5243 5223, 5243, 5283 and consent of program coordinator.

SPED 5273. Learning Theory. (3-0) Credit 3 semester hours. An in-depth study of the various learning theories and an analysis of systematic approaches to learning. Prerequisites: SPED 5213, 5223, 5243, 5283 and consent of program coordinator.

SPED 5283. Curriculum Adjustment and the Exceptional Child. (3-0) Credit 3 semester hours. The experience of altering traditional curricula to mesh with the individual learning needs of the exceptional learner. Prerequisites: SPED 5213, 5243; and consent of program coordinator.

SPED 5343. Practicum. (3-0) Credit 3 semester hours. Direct experience with children referred to the special education laboratory for testing and evaluation. These referrals are related directly to public school problems.

SPED 5353. Individual Testing of the Exceptional Child. (3-0) Credit 3 semester hours. Familiarizes the learner with the administration and interpretation of individualized testing designed for the exceptional learner.

SUPV 5113. Principles of Supervision. (3-0) Credit 3 semester hours. Principles, practices and problems of the supervisory program; includes analysis of current research in the field.

SUPV 5213. The School Supervisor. (3-0) Credit 3 semester hours. A rationale for supervision, and techniques for the supervision of instructional personnel and programs with special emphasis on the clinical supervision cycle.

SUPV 5713. Problems in Supervision. (3-0) Credit 3 semester hours. The study and analysis of contemporary issues related to the supervisory function in an educational setting.

VOED 5103. Placement and Follow-Up. (3-0) Credit 3 semester hours. A study of various instruments, methods, and techniques used in determining occupational aptitudes and interests of students. Planning, organizing, and coordinating a program of job and vocational education placement. Development and coordination of student follow-up services.

VOED 5403. Occupational and Vocational Education. (3-0) Credit 3 semester hours. Methods of collecting, evaluating, cataloging and disseminating occupational and vocational education information.

VOED 5603. Organization and Administration. (3-0) Credit 3 semester hours. Analysis of skills and techniques of administering and supervising vocational programs in public schools. Rules and regulations for organizing and operating vocational education programs, including the financing of vocational programs using local, state, and federal funds.

VOED 5903. Planning and Organizing. (3-0) Credit 3 semester hours. Purposes and functions of a guidance program. Group guidance procedures, components of a vocational guidance program, and techniques of providing vocational guidance services for elementary and secondary students and adults.

VOED 5933. Problems. (3-0) Credit 3 semester hours. An in-depth study of the duties of the teacher coordinator of vocational programs. The identification of types of problems encountered, and the application of action-oriented problem-solving techniques. Problems encountered in both the school and the community are addressed.

VOED 5983. History and Principles. (3-0) Credit 3 semester hours. The historical development of vocational education. Course involves an analysis and discussion of the objectives of vocational education, types of vocational programs, services and activities.

College of Engineering

CHEG 5013. Advanced Reaction Engineering. (3-0) Credit 3 semester hours. Rates and mechanisms of chemical reactions. Thermo and catalytic reactions both homogeneous and heterogeneous with applications. Applications to design of new materials. Prerequisite: CHEG 3063 or equivalent.

CHEG 5023. Microelectronics Materials. (3-0) Credit 3 semester hours. Heterogeneous chemical reactions. Chemical engineering aspects of materials fabrication and processing. CVD thin film deposition techniques. Preparation of superconducting powders. Composites. Modeling and practical applications.

CHEG 5033. Environmental Processes. (3-0) Credit 3 semester hours. Fundamentals of environmental engineering, chemistry, physical-chemistry and transport properties. Energy and mass balances. Reactions and reactors. Biological processes. Bioremediation.

CHEG 5043. Remediation Technologies. (3-0) Credit 3 semester hours. Fundamentals of environmental remediation. Physical-chemical processes. Bioremediation. Stabilization and solidification. Thermal methods. Site characterization. Risk assessment. Containment. Remedial Alternatives Applications to real contaminated sites.

CINS 5003. Graduate Seminar and Project Research. (3-0) Credit 3 semester hours. Series of lectures given by faculty and by visiting computer and information scientists and information technologists. Prerequisite: Graduate standing and consent of the instructor.

CINS 5013. Information Resources Management. (3-0) Credit 3 semester hours. Topics include information systems analysis, design, application, operation, management, and methods for integrating information resources into a decision support framework. Prerequisite: Graduate standing and consent of the instructor.

CINS 5033. Database Management Systems. (3-0) Credit 3 semester hours. Fundamentals of database management systems, techniques for the design of databases, and principles of database administration. The course emphasizes theories of data modeling, database design, database application development, and database management. Topics include conceptual models, query languages, and centralized, distributed, and client/server architectures. Special importance is assigned to the design of databases and the development of client/server and web-based applications using modern software tools. Other topics include database integrity, security, error recovery, and concurrency control. Prerequisite: Graduate standing and consent of the instructor.

CINS 5043. Data Communications and Computer Networks. (3-0) Credit 3 semester hours. Abroad introduction to network technologies, architectures, services, and management necessary to meet business needs, including network and internet designs, applications, and an overview of the telecommunications industry. Prerequisite: Graduate standing and consent of the instructor.

CINS 5063. Data Structures and Algorithms. (3-0) Credit 3 semester hours. Advanced course in data structures with an emphasis on common applications such as pattern matching, data compression, and spell checking. The goals are to provide an insight into data structures, to show how to evaluate data structures, and to provide a basis for making wise choices of data structures in the development of software application systems. The course relates the principles of data structures to the implementation of commercial applications and widely used utilities such as diff (for finding the string edit distance), grep (for pattern matching), and compress (for data compression). Prerequisite: Graduate standing and consent of the instructor.

CINS 5073. Information Technology. (3-0) Credit 3 semester hours. Introductory graduate-level course for CIS majors. This course explores the "information technology (IT) infrastructure," that is, the complex system of computers, networks, software, and delivery goals which collectively form the platform for assimilating and delivering information products and services to an organization and its customers, clients, and suppliers. Prerequisite: Graduate standing and consent of the instructor.

CINS 5103. Decision Support Systems. (3-0) Credit 3 semester hours. Use of decision support systems in business-related decision-making, an overview of the business environment, use models, user interfaces for decision support systems, and decision support systems examples. Prerequisite: Graduate standing and consent of the instructor.

CINS 5143. Advanced Database Management Systems. (3-0) Credit 3 semester hours. Topics related to database design and data management in a database environment, including data normalization, functional dependencies, database design, query language design, implementation constraints, data integrity and security, and distributed data processing. The emphasis is on the concepts and structures necessary to design and implement a database management system. Selected advanced topics such as distributed databases, object-oriented databases, real-time databases, and multimedia databases will be discussed. Because of the many advances in information technology and the database development techniques, new business needs and opportunities are constantly emerging and, with them, the need to manage new technologies and applications effectively. This course explores these new application areas and the management approaches needed to make them successful. Prerequisite: Graduate standing, Prerequisite: Graduate standing, COMP 4953 or CINS 5033, and consent of the instructor.

CINS 5173. Information Storage and Retrieval. (3-0) Credit 3 semester hours. Comprehensive coverage of components, applications, and issues of global information technology management for worldwide organizations. Prerequisite: Graduate standing and consent of the instructor.

CINS 5183. Software Engineering. (3-0) Credit 3 semester hours. Specifying software requirements and an overview of analysis and design techniques that can be used to structure applications. Topics in software requirements include interacting with end-users to determine needs and expectations, identifying functional requirements, and identifying performance requirements. Analysis techniques include prototyping, modeling, and simulation. Design topics include the system lifecycle, hardware and software trade-offs, subsystem definition and design, abstraction, information hiding, modularity, and reuse. Prerequisite: Graduate standing and consent of the instructor.

CINS 5213. Advanced Data Communications and Computer Networks. (3-0) Credit 3 semester hours. Topics related to the development of client-server based applications, including two-tier and multi-tier client-server concepts and programming, concurrency issues in the design of client and server programs, trade-offs of different architectures, the use of remote procedure calls, and broadcasting and multicasting. Prerequisite: Graduate standing, COMP 4123 or CINS 5043, and consent of the instructor.

CINS 5233. Distributed Computing and Parallel Processing. (3-0) Credit 3 semester hours. Comprehensive introduction to the field of parallel and distributed computing systems, including algorithms, architectures, networks, systems, theory, and applications. Distributed parallel computation models, and the design and analysis of parallel algorithms will be emphasized. Prerequisite: Graduate standing, COMP 5133, and consent of the instructor.

CINS 5273. Applied Artificial Intelligence and Expert Systems. (3-0) Credit 3 semester hours. Fundamentals of knowledge-based systems that use artificial intelligence technologies. Businesses are becoming increasingly knowledge-intensive; in particular, with the explosion of data available, there is an increasing need for systems that help people filter, summarize, and interpret large amounts of disparate kinds of data. At the same time, the enabling technologies such as database systems, networks, desktops, and artificial intelligence techniques have reached industrial-strength maturity, providing unprecedented opportunities for building powerful decision support systems. This course will provide broad understanding of these technologies, the value the new technologies provide, how to recognize when they are useful, and a methodology for evaluating the pros and cons of each technology in the context of real-world problems, and exposure to business cases where this methodology has been applied. Prerequisite: Graduate standing and consent of the instructor.

CINS 5303. E-Commerce. (3-0) Credit 3 semester hours. The evolution of electronic commerce, where business is conducted between organizations and individuals relying primarily on digital media and transmission. Participants will investigate the opportunities and challenges of exchanging goods and services over communications networks as well as the manner in which business relationships are being reshaped. Course activities are designed to provide both managerial and entrepreneurial assessments of anticipated advances in information technology with respect to business systems and electronic markets. Prerequisite: Graduate standing and consent of the instructor.

CINS 5323. Multimedia Applications. (3-0) Credit 3 semester hours. The background needed for the design and development of computer-based business systems that combine text, still images, sound, animation, and full-motion video. The course will examine hardware characteristics necessary for the development and execution of such systems, design methodologies used in planning these systems, and authoring languages used to create such systems. Students will be required to design, create, and present at least one multimedia system for evaluation by the class. Prerequisite: Graduate standing and consent of the instructor.

CINS 5333. Reverse Logistics. (3-0) Credit 3 semester hours. Concepts and methods associated with designing, planning, contracting, and overseeing information technology infrastructure and applications. Systems integration encompasses activities where hardware, software, networks, management, services, and training resources are obtained from a team of outside sources. This course is designed to assist students in developing the knowledge and skills needed to work with systems integration vendors and processes. The course familiarizes students with the legal issues related to preparing, distributing, and evaluating requests for proposal (RFPs) and subsequent integration contracting matters. Students will prepare and evaluate systems integration proposals. Prerequisite: Graduate standing and consent of the instructor.

CINS 5453. Object-Oriented Analysis and Design. (3-0) Credit 3 semester hours. An introduction to object-oriented software development using an object-oriented programming language such as C++. Emphasis is placed on both object-oriented design and efficient implementation of the design. Topics include principles of software engineering, management issues, prototyping, development, testing, debugging, and maintenance of software systems. The central theme is to build quality software through reuse. Prerequisite: Graduate standing and consent of the instructor.

CINS 5906. Master's Thesis. (6-0) Credit 6 semester hours. Offered on the letter-grade basis only. The equivalent of six lecture hours per week. Prerequisite: Graduate standing and consent of the thesis advisory committee and the graduate advisor.

CINS 5913. Master's Project. (3-0) Credit 3 semester hours. Offered on the letter-grade basis only. The equivalent of three lecture hours per week. Prerequisite: Graduate standing and consent of the project advisory committee and the graduate advisor.

CINS 5983. Special Topics in Computer Information Systems. (3-0) Credit 3 semester hours. Special topics in computer information systems or a special interest subject that is offered infrequently. Several different topics may be taught in one semester, such as Information Security or Data Warehousing. Prerequisite: Graduate standing and consent of the instructor and the graduate advisor.

CINS 5993. Independent Study. (3-0) Credit 3 semester hours. Individual studies in advanced computer science and technology. Prerequisite: Graduate standing and consent of the instructor and the graduate advisor.

COMP 5003. Graduate Seminar and Project Research. (3-0) Credit 3 semester hours. Series of lectures given by faculty and by visiting computer and information scientists and information technologists. Prerequisite: Graduate standing and consent of the instructor.

COMP 5113. Fundamentals and Concepts of Programming Languages. (3-0) Credit 3 semester hours. Study of the principles that form the basis of programming language design. Research topics in high-level languages including data abstraction, parameterization, scoping, generics, exception handling, parallelism, and concurrency. Additional topics include alternative language designs (imperative, functional, descriptive, object-oriented, and data flow designs) and an overview of interfacing with support environments. Prerequisite: Graduate standing, COMP 4113, and consent of the instructor.

COMP 5123. Advanced Computer Architecture. (3-0) Credit 3 semester hours. New technological developments, including details of multiprocessor systems and specialized machines. The main focus is on the quantitative analysis and cost-performance tradeoffs in instruction set, pipeline, and memory design. Descriptions of real systems and their performance data are also given. Topics covered include quantitative performance measures, instruction set design, pipelining, vector processing, memory organization, input/output methods, and an introduction to parallel processing. Prerequisite: Graduate standing, COMP 3043, and consent of the instructor.

COMP 5133. Advanced Operating Systems. (3-0) Credit 3 semester hours. Theoretical and practical aspects of operating systems, including an overview of system software, time-sharing and multiprogramming operating systems, network operating systems and the Internet, virtual memory management, inter-process communication and synchronization, file organization, and case studies. Other advanced topics and examples, and simulation techniques used in performance evaluation. Prerequisite: Graduate standing, COMP 3063, and consent of the instructor.

COMP 5143. Advanced Database Management Systems. (3-0) Credit 3 semester hours. Topics related to database design and data management in a database environment, including data normalization, functional dependencies, database design, query language design, implementation constraints, data integrity and security, and distributed data processing. The emphasis is on the concepts and structures necessary to design and implement a database management system. Selected advanced topics such as distributed databases, object-oriented databases, real-time databases, and multimedia databases will be discussed. Because of the many advances in information technology and the database development techniques, new business needs and opportunities are constantly emerging and, with them, the need to manage new technologies and applications effectively. This course explores these new application areas and the management approaches needed to make them successful. Prerequisite: Graduate standing, COMP 4953 or CINS 5033, and consent of the instructor.

COMP 5153. Design and Analysis of Algorithms. (3-0) Credit 3 semester hours. Introduction to algorithm design and analysis, computational complexity, and NP-completeness theory. The course will emphasize how to design and choose appropriate algorithms and data structures to solve a given problem efficiently. Design methods covered will include divide-and-conquer techniques, greedy methods, and dynamic programming. Problem domains covered will include string matching, polynomials and matrices, graph theory, optimal trees, and NP-hard problems. Prerequisite: Graduate standing, COMP3053, and consent of the instructor.

COMP 5183. Software Engineering. (3-0) Credit 3 semester hours. Specifying software requirements and an overview of analysis and design techniques that can be used to structure applications. Topics in software requirements include interacting with end-users to determine needs and expectations, identifying functional requirements, and identifying performance requirements. Analysis techniques include prototyping, modeling, and simulation. Design topics include the system lifecycle, hardware and software trade-offs, subsystem definition and design, abstraction, information hiding, modularity, and reuse. Prerequisite: Graduate standing and consent of the instructor.

COMP 5213. Advanced Data Communications and Computer Networks. (3-0) Credit 3 semester hours. Topics related to the development of client-server based applications, including two-tier and multi-tier client-server concepts and programming, concurrency issues in the design of client and server programs, trade-offs of different architectures, the use of remote procedure calls, and broadcasting and multicasting. Prerequisite: Graduate standing, COMP 4123 or CINS 5043, and consent of the instructor.

COMP 5223. Artificial Intelligence and Expert Systems. (3-0) Credit 3 semester hours. Topics in knowledge-based systems and machine learning, including an in-depth engineering approach to artificial neural networks. Topics include different types of network architectures and applications, and their properties and behavior, with a particular emphasis on general concepts of network topologies. Prerequisite: Graduate standing and consent of the instructor and the graduate advisor.

COMP 5233. Distributed Computing and Parallel Processing. (3-0) Credit 3 semester hours. Comprehensive introduction to the field of parallel and distributed computing systems, including algorithms, architectures, networks, systems, theory, and applications. Distributed parallel computation models, and the design and analysis of parallel algorithms will be emphasized. Prerequisite: Graduate standing, COMP 5133, and consent of the instructor.

COMP 5243. Numerical Analysis. (3-0) Credit 3 semester hours. Analysis of algorithms and solutions utilizing numeric methods, including linear and nonlinear systems, matrix inversion and eigenvalues, polynomial approximations, quadratic interpolation, least squares, and finite differences. Emphasis is placed on robust mathematical software and its interaction with computer hardware and languages. Prerequisite: Graduate standing, COMP 5153, and consent of the instructor.

COMP 5253. Theory of Computation. (3-0) Credit 3 semester hours. Models of computation, complexity theory, intractable problems, complete problems, recursive function theory, incompleteness, formal theory of program semantics and correctness, and logics of programs. Prerequisite: Graduate standing, COMP 3053 or 5153, and consent of the instructor.

COMP 5263. Computer Graphics. (3-0) Credit 3 semester hours. Topics in computer graphics and geometric modeling, including B-spline curves and surfaces, solid modeling, radiosity, morphing, animation, simulation, subdivision, fractals, wavelets, and other selected topics. Prerequisite: Graduate standing and consent of the instructor.

COMP 5413. Object-Oriented Analysis and Design Methodology. (3-0) Credit 3 semester hours. Design and analysis methods for developing high-quality object-oriented systems. Topics include object-oriented classes, attributes, methods, and relations to other classes, objects, classifications and inheritance, encapsulation, polymorphism, and object-oriented analysis, design, and programming. Prerequisite: Graduate standing and consent of the instructor.

COMP 5423. Software Engineering Processes. (3-0) Credit 3 semester hours. Engineering of complex systems that have a strong software component. Topics include deriving and allocating requirements, system and software architectures, systems analysis and design, integration, interface management, configuration management, quality, verification and validation, reliability, and risk. Prerequisite: Graduate standing, COMP 5183, and consent of the instructor.

COMP 5433. Software Project Planning and Management. (3-0) Credit 3 semester hours. Methods for successful management of a software development project. This includes planning, scheduling, tracking, cost and size estimating, risk management, quality engineering, and process improvement. The course is centered on the concept of a software engineering process and includes discussion of life-cycle models for software development. Prerequisite: Graduate standing, COMP 5183, and consent of the instructor.

COMP 5443. Advanced Software Quality Assurance. (3-0) Credit 3 semester hours. The relationship of software testing to quality is examined with an emphasis on testing techniques and the role of testing in the validation of system requirements. Topics include module and unit testing, integration, code inspection, peer reviews, verification and validation, statistical testing methods, preventing and detecting errors, selecting and implementing project metrics, and defining test plans and strategies that assure conformance to system requirements. Testing principles, formal models of testing, and performance monitoring and measurement are also examined. Prerequisite: Graduate standing, COMP 5183, and consent of the instructor.

COMP 5463. Human Computer Interaction and Interface Design. (3-0) Credit 3 semester hours. A research-oriented course featuring in-depth analyses of selected current topics with an emphasis on problems related to computer systems, artificial intelligence, and human-computer interaction and interface design. Prerequisite: Graduate standing, COMP 5213, and consent of the instructor.

COMP 5906. Master's Thesis. (6-0) Credit 6 semester hours. Offered on the letter-grade basis only. The equivalent of six lecture hours per week. Prerequisite: Graduate standing and consent of the thesis advisory committee and the graduate advisor.

COMP 5913. Master's Project. (3-0) Credit 3 semester hours. Offered on the letter-grade basis only. The equivalent of three lecture hours per week. Prerequisite: Graduate standing and consent of the project advisory committee and the graduate advisor.

COMP 5983. Special Topics in Computer Science. (3-0) Credit 3 semester hours. Exposure to new and emerging concepts and technologies. Prerequisite: Graduate standing and consent of the instructor and the graduate advisor.

COMP 5993. Independent Study. (3-0) Credit 3 semester hours. Individual studies in advanced computer science and technology. Prerequisite: Graduate standing and consent of the instructor and the graduate advisor.

CVEG 5123. Structural Dynamics. (3-0) Credit 3 semester hours. Single and multi-degree systems, linear nonlinear systems, damped or forced random vibrations, self-introduced vibrations, numerical and phase plane solutions, modal analysis, formulation by flexibility and stiffness matrices, response spectra, and computer applications.

CVEG 5143. Hazardous Waste Management. (3-0) Credit 3 semester hours. Environmental legislation, regulations concerning the identification, storage, transport, and disposal of hazardous wastes. Treatment processes; control mechanisms; landfill technology and disposal practices.

CVEG 5153. Biological Wastewater Treatment. (3-0) Credit 3 semester hours. Course on the fundamentals and on selected design aspects of biological wastewater treatment. The need and objectives of wastewater treatment are introduced starting with an overview of the federal water pollution control acts and of the major physical chemical-biological characteristics of waste streams.

CVEG 5163. Air Pollution Engineering. (3-0). The nature of the air pollution problem and its effects on the public at large. Present legal and engineering controls to combat pollution. Techniques of air sampling and testing.

CVEG 5173. Finite Element Analysis. (3-0) Credit 3 semester hours. Using numerical integration, Galerkin-weighted residual and variation approaches to formulate and solve one-and-two dimensional problems in solid mechanics, fluid flow, heat transfer, and electro-magnetics.

ELEG 5913. Engineering Project. (3-0) Credit 3 semester hours. An engineering design and analysis investigation at the master's level. Topic to be decided between student and advisor and should be relevant to students specialty area. A written project report is required to be presented, defended orally and submitted to the faculty advisory committee for approval.

ELEG 5966. Research. (6-0) Credit 6 semester hours. Engineering research under the supervision of graduate advisor.

ELEG 5993. Independent Study. (3-0) Credit 3 semester hours. Reading, research, and/or field work on selected topics. Prerequisite: consent of advisor.

ELEG 5996. Thesis. (6-0) Credit 6 semester hours. A candidate for the Master of Science in Electrical Engineering is required to perform a study, a design of investigation, under the direction of a faculty advisory committee. A written thesis is required to be presented, defended orally and submitted to the faculty advisory committee for approval.

ELEG 6011 Graduate Seminar I (1-0) Credit 1 semester hour. Seminar on emerging areas of electrical engineering. Research presentations by faculty, students and invited guests.

ELEG 6021 Graduate Seminar II (1-0) Credit 1 semester hour. Continuation of ELEG 6011.

ELEG 6103 Advanced Computer Systems Design (3-0) Credit 3 semester hours. Digital Design Methodologies, System Design CAD tools, Hardware Description Language, Simulation, Verification and Synthesis. Prerequisite: ELEG 4303

ELEG 6113 Computer Architecture & Advanced Logic Design (3-0) Credit 3 semester hours. Overview of switching theory, logic design, combinatorial and sequential circuits, and FSMs. Computer architecture: organization and design with CPU, Memory, cache, I/O, OS, DMA, MMU, operations of interrupt and. DMA, and performance analysis. Special architectures: Parallel architectures, microprogramming, RISC, and ASIC design overview. Prerequisite: ELEG 4303

ELEG 6123 The Internet: Design and Implementation (3-0) Credit 3 semester hours. Overview of ISO Reference Model. Homogeneous, heterogeneous and ad-hoc network architectures. Reference Model of end-to-end networking: access networks, enterprise networks and core networks, internetworking issues and protocol architecture. Internet network elements and protocols including routers, switches, diffServe, MPLS, and VPN. Internet applications and Quality of Service issues. Pre-requisites: ELEG 4003 and ELEG 4303

ELEG 6133 Fault Tolerant Computing (3-0) Credit 3 semester hours. Key concepts in fault-tolerant computing. Understanding and use of modern fault-tolerant hardware and software design practices. Case studies. Prerequisite: ELEG 4393

ELEG 6143 Modeling and Performance of Computer Architectures (3-0) Credit 3 semester hours. Computer architecture overview, modeling and interconnecting hardware components. Qualitative and quantitative performance analysis and cost effectiveness for different computer design trade-offs. Advanced Processor designs including superscalar and out-of-order execution, advanced memory systems such as non-blocking caches and multi-porting/banking and alternative virtual memory implementations. Analysis of I/O systems, interconnects, introduction to multiprocessor architectures, performance and cost metrics, and benchmarking. Prerequisite: ELEG 6113

ELEG 6153 Information Networks (3-0) Credit 3 semester hours. OSI Reference model overview, concept of peer-to-peer operation, and layer functions. Circuit switched networks, packet switched networks, ATM and FR networks. Access networks: LANs, DSL, T1/E1, and wireless. Enterprise and core networks: Protocol architectures such as TCP, UDP, IP, ATM, VPN, and MPLS. Interconnecting the networks for end-to-end operation for connectionless and connection oriented protocols. Modeling and performance analysis of network protocols. Signaling and network management overview. Pre-requisites: ELEG 4003 and ELEG 4303

ELEG 6203 Wireless Networks (3-0) Credit 3 semester hours. Overview of mobile and cellular networks, I, II, III and IV generation systems. Mobile computing systems, and architecture and design of digital cellular wireless networks. Design of IEEE 802 Wireless LANs and standards. Performance considerations for user and node mobility management. Power and propagation, dynamic routing and re-configurable networks. Mobile transport protocols including IP, ATM, and TCP. Middleware considerations. Mobile applications, management and service provisioning. Prerequisites: ELEG 4003

ELEG 6213 Digital Communications (3-0) Credit 3 semester hours. Overview of Digital Communications fundamentals of AM, FM and PM. Concept of Nyquist criteria, SNR, Wave shaping, Shannon's theory. Digital waveform coding methods. Channel impairments: random noise, cross talk, inter-modulation, information recovery process. Design of modems and SNR improvements by noise shaping and canceling techniques. Integrated Services Digital Networks: Channelization, clock recovery, framing and recovery of information, end-to-end connectivity methods, signaling and management operations. Prerequisites: ELEG 4003 and ELEG 6313

ELEG 6223 Network Management (3-0) Credit 3 semester hours. Overview of network architecture: user plane, control plane and management plane, Network management overview: Concept of Management Information Base (MIB), Reference models for management. SNMP protocol: design, MIB and performance analysis. CMIP protocol: design, MIB and performance analysis. ASN.1 specification. Design examples for LANs, Enterprise and Core networks. Service Management considerations. Pre-requisite: ELEG 6153

ELEG 6233 Coding Theory (3-0) Credit 3 semester hours. Linear codes: parity and generator matrices, syndrome error correction and detection capability, minimum distance. Performance bounds of linear codes, Hamming and Golay codes, Galois fields, shift-register implementation. Cyclic codes. BCH codes: the BCH decoding algorithm, burst-correction codes. Prerequisites: ELEG 4003 and ELEG 6313

ELEG 6243 Advanced Broadband Communications Systems (3-0) Credit 3 semester hours. Overview: Definition of Broadband, broadband architectures: DSL, DSLAM and variations, Digital wireless, and introduction to packet and circuit switching technologies. Standards of DSL. Design of HDSL, ADSL, XDSL systems and methods to improve bandwidth enhancements on TTP. Design of high-speed operation: Impact on existing TTP (Cat3, 5), digital wireless, CATV and satellite network architectures. Modeling and Performance analysis of different broadband systems for data and multi-service environment. Transmission impairments and information recovery process: noise shaping, signal shaping, and Impact of cross-talk, inter-modulation in the physical medium. Prerequisite: ELEG 4313

ELEG 6253 Telecommunications Network Security (3-0) Credit 3 semester hours. Overview of cryptography. Public and private key encryption. Privacy, authentication, authorization and digital signatures, and Hash algorithms. Design of network security using private key encryption (DES) and public key encryption (RSA). Concept of electronic codebook and knowledge proof systems. Intrusion detection and active prevention and firewalls. Scrambling techniques for non-data signals such as voice and video. Security management design for networks. Prerequisite: ELEG 6313

ELEG 6303 Signal Detection and Estimation (3-0) Credit 3 semester hours. Statistical detection theory; signal and parameter estimation theory; likelihood-ratio decision rules; Bayes, maximum-likelihood, maximum-a-posterior, Neyman-Pearson, and minimum-error criteria; Cramer-Rao Bound; unbiased estimators; Kalman and Wiener filters, estimators; simple and composite hypothesis testing, optimum linear filtering, smoothing and prediction, nonlinear estimation. Prerequisite: ELEG 6313

ELEG 6313 Stochastic Processes (3-0) Credit 3 semester hours. Probability overview, distribution and density functions, moments, time averaging and sampled averaging. Stochastic processes: Gaussian, Markov process, Poisson, Rice, Wiener-Levy processes, bi-model and tri-model processes. Modeling of systems using stochastic processes and system analysis. Karhunen-Loeve transform, bounds and their use in systems. Decision Rules: Maximum likelihood, Minimum Error, Kalman and Wiener filters, Linear and non-linear estimation and Optimization techniques. Prerequisite: MATH 3023

ELEG6323 DSP Systems Design (3-0) Credit 3 semester hours. Overview of Digital filter structures and digital filter design. Digital Processing Architectures: Microprocessors, Programmable arrays, ASICs; design considerations and algorithmic implementations. Interface considerations and interoperability issues for hardware system. Embedded systems designs for DSP applications. Design and implementation of DSP algorithms and Performance considerations. Prerequisite: ELEG 4053

ELEG 6333 Wavelets and Their Applications (3-0) Credit 3 semester hours. Time-frequency analysis. Continuous, discrete, and discrete-time wavelet transform. Multi-rate filter banks. Multi-band wavelets, two-dimensional wavelets. Wavelet packets and matching pursuit. Wavelets in noise filtering, compression, modeling of fractals, communications, detection, adaptive systems, neural networks, and fast computation. Prerequisites: ELEG 4003 and ELEG 4053

ELEG 6343 Advanced Signals and Systems (3-0) Credit 3 semester hours. Concepts of continuous and discrete signals, Fourier series and transforms and multi-dimensional transforms for continuous and discrete systems, and Laplace transforms. Concept of state variable and transfer function matrices. Systems of differential and difference equations, controllability, observability and stability. Continuous and discrete time analysis. Z- transforms, 2-Dimensional z-transforms. Linear prediction, adaptive filtering and applications of transforms. Prerequisites: ELEG 3023, ELEG 6313

ELEG 6353 Advanced Digital Signal Processing (3-0) Credit 3 semester hours. Overview: digital signal processing – DFT, FFT, Z-transforms, filter theory, analysis and design. Optimal signal processing: Spectral estimation, linear prediction, short-term Fourier analysis, adaptive filtering, filtering for bandwidth limits for both correlated and uncorrelated symbol streams. Array processing and homomorphic signal processing. Prerequisites: ELEG 4053 and ELEG 6353

ELEG 6403 Solid State Devices (3-0) Credit 3 semester hours. Development and analysis of solid state physics needed for quantitative modeling of electronic materials and solid state electronic devices and their characteristics; relationship of basic principles to measurable electrical characteristics, structure and material properties of electronic devices. Prerequisite: ELEG 3033

ELEG 6413 Integrated Circuit Fabrication (3-0) Credit 3 semester hours. Basic Integrated Circuit fabrication processes: crystal growth (thin film and bulk), thermal oxidation, dopant diffusion/implantation, thin film deposition/etching and lithography. Introduction to process and device simulators such as SUPREM and PISCES. Fabrication and characterization of resistors, MOS capacitors, junction diodes and MOSFET devices. Prerequisite: ELEG 3033 and ELEG 4043

ELEG 6423 VLSI and ULSI Design (3-0) Credit 3 semester hours. MOS transistor and characteristics, CMOS inverter and transmission gates. Design of complex CMOS gates; combinational and sequential design techniques in VLSI and ULSI; issues in static transmission gate and dynamic logic design; CMOS technology and layout design rules. Use of CAD tools to layout, check and simulate circuits. Design, layout and simulation of a small project. Prerequisite: ELEG 3033, ELEG 4303 and ELEG4043

ELEG 6433 Semiconductor Devices (3-0) Credit 3 semester hours. Operation and modeling of basic bipolar and unipolar semiconductor devices including p-n junctions, Schotky diodes, BJT, MOSFET and HEMTs; properties of semiconductor interfaces, particularly of MOS and MIS structures. Prerequisite: ELEG 6403 or permission of the instructor.

ELEG 6503 Advanced Photonics Materials and Devices (3-0) Credit 3 semester hours. Optical properties and processes in elemental and compound semiconductors; junction theory of homo- and hetero-junctions; theory and operation of various opto-electronic devices including light emitting diodes, laser diodes, photo detectors and solar cells; Opto-electronic modulation and switching; light transmission and integrated applications. Prerequisites: ELEG 6403 and ELEG 6433

ELEG 6513 Advanced Quantum Devices (3-0) Credit 3 semester hours. Selected topics in advanced concepts in quantum theory of semiconductors including transport theory; qualitative description of superconductivity and related devices, description and analysis of quantum and nano-scale devices such as RTDs, nano-tube transistors, SETs and molecular electronics, description of device fabrication techniques such as epitaxial growth, characterization of heterostructures, quantum wells and superlattices including strained layers. Prerequisites: ELEG 6403 and ELEG 6433

ELEG 6523 Advanced Characterization of Materials and Devices (3-0) Credit 3 semester hours. The theory and application of state-of-the-art characterization techniques on advanced materials and devices; experimental techniques that describe the electronic, structural and thermal properties of materials. Emphasis will be placed on materials and devices that are current areas of research and development. ELEG 6403 and ELEG 6433

ELEG 6533 Advanced VLSI Design (3-0) Credit 3 semester hours. Advanced topics in VLSI Design. Topics include: use of high level design, synthesis and simulation tools, design for testability, clock distribution and routing problems, synchronous circuits, low power design techniques, study of various VLSI-based computations. Discussion on current research topics in VLSI design. Prerequisite: ELEG 6423

ELEG 6543 Advanced Solid State (3-0) Credit 3 semester hours. This course will be a survey of selected topics in areas of solid state devices that are in the research and development stage. Topics will include new material systems, new methods for fabrication and processing microelectronics, new device structures and architectures for integrated circuits, new methods for large-scale integration of the next generation devices. Prerequisites: ELEG 6403 and ELEG 6433

ELEG 6553 Advanced Mixed Signal Design (3-0) Credit 3 semester hours. Advanced study of Analog signal processing families, discrete time switched capacitor circuits, A/D and D/A converters, samples, modulators, oscillators, and system level circuit design. In-depth theoretical treatment of mixed signal system design and testing systems for achievable mixed signal system performance. Exploration of current techniques for Mixed Signal system testing. Prerequisite: ELEG 4043 and ELEG 4273

ELEG 7103 Advanced Topics in Computer Engineering (3-0) Credit 3 semester hours. Current research issues in computer architecture, digital design, networked-computing, embedded and real-time systems. May be repeated for credit when the topics vary.

ELEG 7123 Advanced Topics in Telecommunications and Signal Processing (3-0) Credit 3 semester hours. Current research issues in telecommunications and digital signal processing. May be repeated for credit when the topics vary.

ELEG 7133 Advanced Topics in Microelectronics (3-0) Credit 3 semester hours. Current research issues in the design, fabrication, characterization and reliability of integrated circuits. May be repeated for credit when the topics vary.

ELEG 7016 Doctoral Research I (6-0) Credit 6 semester hours. Research for thesis of dissertation. Limited to doctoral students. May be repeated for credit.

ELEG 7026 Doctoral Research II (6-0) Credit 6 semester hours. Continuation of ELEG 7016. Limited to doctoral students. May be repeated for credit.

ELEG 7916 Doctoral Dissertation I (6-0) Credit 6 semester hours. The continuation of ELEG 7016 and ELEG 7026 for writing thesis. Limited to students who have been admitted to candidacy for the doctoral degree. May be repeated for credit.

ELEG 7926 Doctoral Dissertation II (6-0) Credit 6 semester hours. Continuation of ELEG 7916. Limited to students who have been admitted to candidacy for the doctoral degree. May be repeated for credit.

GNEG 5010. Research Seminar. (1-0) Credit 0 semester hours. Current research/project in a wide range of fields presented by guest lecturers, faculty or students. Discussion period at the end of each presentation will permit the students to learn more about research methods and presentation techniques.

GNEG 5033. Engineering Probability and Statistics. (3-0) Credit 3 semester hours. Theory of permutations, combinations; statistical principles of analysis of random data probability as a basis of engineering design.

GNEG 5053. Engineering Instrumentation and Information Systems. (3-0) Credit 3 semester hours. Transducer theory and operations; operational amplifiers and feedback control in analog systems; A-D converters for digital systems information processing retrieval, and management.

GNEG 5063. Engineering Analysis I. (3-0) Credit 3 semester hours. Boundary value problems in various engineering disciplines using Maxwell's equations and nonlinear partial differential equations.

GNEG 5073. Engineering Analysis II. (3-0) Credit 3 semester hours. Complex variable theory in engineering applications using techniques, including conformal mapping, control systems, and signal processing.

GNEG 5086. Thesis. (0-0) Credit 3 semester hours. A candidate for the Master Science in Engineering is required to perform a study, design or investigation, under the direction of a faculty advisory committee. A written thesis is required to be presented, defended orally and submitted to the faculty advisory committee for approval.

GNEG 5133. Engineering Numerical Methods. (3-0) Credit 3 semester hours. Numerical methods in engineering include fundamental numerical techniques involving recursion relationships, numerical quadratures, etc., applied to engineering problems. Emphasis will be placed on the solution of advanced engineering problems involving ordinary and partial differential equations. Proven and efficient finite methods will be covered with emphasis on engineering conceptualization and formulation. An introduction to finite elements analysis will also be given.

GNEG 5193. Special Topics. (3-0) Credit 3 semester hours. Special topics in engineering relating to materials, renewable and non-renewable resources, environmental and energy fields are selected and discussed in detail. Considers all aspects of planning, design fabrication, development and implementation.

GNEG 5203. Graduate Internship. (0-0) Credit 3 semester hours. A realistic experience in engineering to enhance the student's professional abilities. Students work on significant projects with industry firms or governmental agencies involving decision-making responsibility. Course requires oral and written report.

MCEG 5023. Advanced Thermodynamics. (3-0) Credit 3 semester hours. Theories of thermodynamics and their application to the more involved problems in engineering practice or design. Topics include advanced power cycles, superconductivity, thermodynamic relations, chemical thermodynamics and phase equilibrium.

MCEG 5163. Advanced Engineering Fluid Dynamics. (3-0) Credit 3 semester hours. A Comprehensive study of fluid mechanics and dynamics is considered. This includes Potential flow, Stokes flow, Oseen flow, other inviscid flow, Echkman Row, and other viscous flows such as Boundary Layer Analysis. An introduction to perturbation to theory will also be given.

MCEG 5183. Computer Integrated Manufacturing. (3-0) Credit 3 semester hours. A total integration of manufacturing, management, strategic planning, finance, and the effective use of computer technology in the control of the production process.

MCEG 5223. Advanced Heat Transfer. (3-0) Credit 3 semester hours. An advanced study of heat and mass diffusion, convection, conjugate heat transfer, heat exchangers two-phase heat transfer, micro-scale heat and mass transfer, and thermal radiation. Lumped, integral, differential, and numerical analysis will be included and a term project will be required.

MCEG 5253. Advanced Engineering Materials. (3-0) Credit 3 semester hours. Qualitative and quantitative relationships between microstructure and mechanical properties. Studies of dislocation theory, elasticity, plasticity, brittle and ductile fracture, fatigue and creep, design criteria and statistical aspects of failure.

MCEG 5333. Computational Fluid Dynamics. (3-0) Credit 3 semester hours. Potential flow theory. Application of numerical methods and the digital computer to inviscid flow analysis. Application of vortex lattice, panel element, and boundary element methods to incompressible and compressible three dimensional aerodynamic flow problems. Wings and Wing-body analysis and incorporation of boundary integration for complete modeling.

College of Juvenile Justice and Psychology

JJUS 5113. Foundations of Criminal Justice. (3-0) Credit 3 semester hours. An in-depth examination of the history and origin of the American criminal justice system as it relates to contemporary issues in the United States.

JJUS 5123. Foundations of Juvenile Justice. (3-0) Credit 3 semester hours. An examination of the juvenile justice system: History, structure, and interrelationships among law enforcement, juvenile and adult courts, and juvenile corrections. Includes an exploration of federal, state, county, and local laws and programs; emphasizes case and statutory law, constitutional procedures, and the philosophy of *parens patriae*. Required of all MSJJ students.

JJUS 5223. Substance Abuse. (3-0) Credit 3 semester hours. Provides a critical examination of various policy responses to the "drug problem" in the United States based upon a review of selected empirical and theoretical studies. Includes an overview of drug usage by youth and adults and the relationship between drug usage and juvenile crime.

JJUS 5233. Community Structure and Problems. (3-0) Credit 3 semester hours. Explores political and management structures and their relationships to a variety of community factors, including: Community size and makeup; social stratification or levels of visibility between those of lower, middle, and higher socioeconomic status; and relative availability of goods and services, including those of helping agencies. Additionally, the relationships among race, ethnic, gender diversity and delinquency will be examined. Finally, political, social policy, and organizational behavior, as they affect community structures, poverty, unemployment, crime, racism, ethnocentrism, and sexism will be examined.

JJUS 5243. Community Building and Organizing. (3-0) Credit 3 semester hours. Includes an understanding of theories, methods of analysis, and techniques of intervention employed in pursuing community change. By studying juvenile justice agencies, child helping programs and organizations in the community, a special emphasis is placed on juvenile crime prevention. Techniques for the empowerment of people, problem solving, community building, discovering resources within the community and issues of volunteering are addressed.

JJUS 5253. Domestic and Family Violence. (3-0) Credit 3 semester hours. Addresses types of family violence by examining the extent of the problem, factors contributing to violence, and the consequences of family violence upon the individual, family, community, and society. Emphasis is placed on prevention techniques, non-violent conflict resolution strategies, and programs and services for training and interventions.

JJUS 5413. Economic Life and Juvenile Crime. (3-0) Credit 3 semester hours. Provides a foundation of economic analysis as it applies to juvenile crime and delinquency; elements of supply/demand, elasticity and economic choice theory, production, cost and output determination under different market conditions, resource pricing, labor market and job search are examined. Additionally, issues of national income, output determination, unemployment, inflation and elements of monetary and fiscal policies, income distribution and poverty are addressed.

JJUS 5423. Conflict Mediation/Resolution. (3-0) Credit 3 semester hours. Examines the nature and uses of mediation as a conflict resolution method while taking into consideration the adversarial legal system. The course expands upon the variety of dispute resolution methods applicable to settings in families, neighborhoods, classrooms and juvenile justice agencies.

JJUS 5433. Counseling. (3-0) Credit 3 semester hours. An in-depth evaluation of counseling as it is applied in the juvenile justice and juvenile correction settings. Emphasizes a psycho-social approach to the study of behavior with priority given to immediacy. Explores various treatment models, interviewing, interpersonal communication, and crisis intervention.

JJUS 5523. Management of Juvenile Justice Organizations. (3-0) Credit 3 semester hours. An examination of management and leadership principles as they apply to juvenile justice organizations and agencies. A special focus is placed on the study of government and nonprofit agencies.

JJUS 5763. Theories of Delinquency. (3-0) Credit 3 semester hours. An in-depth analysis of selected theories of crime causation. Readings will include theories chosen from the sociological, economic, psychological, and biological literature. Required of all MSJJ students.

JJUS 5773. Juvenile Law and Practice. (3-0) Credit 3 semester hours. An examination of juvenile law. The course is designed to give the student a better understanding of the law as it relates to the juvenile justice system and its process. Special attention is placed on Texas and U.S. Supreme Court cases.

JJUS 5783. Ethics. (3-0) Credit 3 semester hours. The analytical and normative inquiry into the philosophical foundations of decisions. Emphasis is placed on understanding dilemmas faced by juvenile justice professionals.

JJUS 5943. Research Methods. (3-0) Credit 3 semester hours. Includes defining and specifying research problems; developing and testing hypotheses; the logic of causal interference; learning to use the variety of research designs; sampling procedures; the collection, processing; and storing of research data; and the ethics of research. Prerequisites: JJUS 5123 and 5763. Required of all MSJJ students.

JJUS 5953. Special Topics in Juvenile Justice. (3-0) Credit 3 semester hours. A seminar designed to allow exploration into a wide array of juvenile justice topics as determined by the instructor.

JJUS 5963. Applied Statistical Methods and Computing. (3-0) Credit 3 semester hours. A study of descriptive and inferential statistics, measures of central tendency and variability, estimation, hypothesis testing, analysis of variance, simple and multiple regression and nonparametric methods. Students learn the use and value of each statistic while using SPSS as a problem-solving tool. Prerequisites: JJUS 5123, 5763 and 5943. Required of all MSJJ students.

JJUS 5973. Policy Analysis. (3-0) Credit 3 semester hours. The development of policy and an understanding of the framework for thinking through policy issues which relate to problems in juvenile justice. The class also examines resource allocation methods, cost benefit analysis, issues related to management and policy implementation.

JJUS 5986. Thesis. (6-0) Credit 6 semester hours. Independent and original research leading to an acceptable master's thesis.

JJUS 7113. Juvenile Justice Issues and Practice. (3-0) Credit 3 semester hours. Includes the history of juvenile justice, an overview of juvenile justice agencies and process, and an introduction to issues and trends in the field of juvenile justice. Introduces major questions and problems within the field of juvenile justice and juvenile crime prevention. Prerequisites: Admission to doctoral program.

JJUS 7623. Seminar in Grant Writing. (3-0) Credit 3 semester hours. Develops skills needed to become successful grant writers. Delves into methods of discovering funding sources. Explains problem definition and formulation, identifying target populations and risk factors, provision of background literature, goals and objectives, development of study design, budgeting, staffing and developing job descriptions and evaluative strategies. Prerequisites: Admission to doctoral program.

JJUS 7643. Management and Administration. (3-0) Credit 3 semester hours. Examination of management and administrative thought and practice as these relate to public agencies and private organizations of juvenile justice and youth and child service. Prerequisites: Admission to doctoral program.

JJUS 7653. Seminar on Juvenile Corrections. (3-0) Credit 3 semester hours. Examination of juvenile corrections in Texas and the nation, including the Texas Youth Commission, the Texas Juvenile Probation Commission, county probation departments, juvenile parole, and private agencies. Discusses historical and national juvenile correctional trends. Prerequisites: Admission to doctoral program.

JJUS 7661. Juvenile Justice Statistics Lab. (0-0) Credit 1 semester hour. A one hour course which must be taken in conjunction with JJUS 7963 Advanced Statistical Techniques in Juvenile Justice I. Prerequisites: Admission to doctoral program, concurrent enrollment in JJUS 7963.

JJUS 7673. The Juvenile Offender and Youth Gangs. (3-0) Credit 3 semester hours. Explores the nature and extent of juvenile crime. Also considers the socialization of children, the creation of childhood and crime as social constructs, and the etiology of juvenile offending. Prerequisites: Admission to doctoral program.

JJUS 7683. Philosophy of Punishment. (3-0) Credit 3 semester hours. Concentrates on questions of personal blame and individual, moral, and legal accountability. Compares classical views of punishment with the restorative justice perspective. Aspects of punishment considered are definitions of punishment, philosophical justifications for punishment, and punishment as a component of culture. Reviews the implications for criminal and civil liability of key concepts such as free will, voluntary action, omission, negligence, recklessness, compulsion, insanity, and excuse. Seeks guidance from penal and civil codes, judicial decisions, legal doctrines, and philosophical perspectives. Prerequisites: Admission to doctoral program.

JJUS 7693. Qualitative Methods in Social Science. (3-0) Credit 3 semester hours. Familiarizes students with the nature and utility of qualitative field work in various areas of criminological research, emphasizing areas of juvenile justice. Prerequisites: Admission to doctoral program.

JJUS 7753. Demographics and Juvenile Justice. (3-0) Credit 3 semester hours. Delves into value systems of major minority groups and disenfranchised persons in the United States. Considers over-representation of these groups as victims of juvenile crime and in Juvenile Justice System processing, and their under-representation in the ranks of professionals and practitioners in the juvenile justice system. Also deals with strategies of change promotion and discusses the ecology of juvenile crime. Prerequisites: Admission to doctoral program.

JJUS 7763. Seminar on Juvenile Processing by Police and Courts. (3-0) Credit 3 semester hours. Considers the processing of juvenile offenders by the juvenile justice system, with a special emphasis upon the juvenile offender's contacts with police officials and with the criminal courts. Compares and contrasts the processing of accused juveniles with the processing of accused adults. Prerequisites: Admission to doctoral program.

JJUS 7773. Theories of Crime and Delinquency. (3-0) Credit 3 semester hours. Examines the historical development of theories of crime and delinquency. Deals with explanations of the etiology of crime which derive from the paradigms of the varied social, psychological, and biological disciplines. Prerequisites: Admission to doctoral program and JJUS 5763 or equivalent.

JJUS 7783. Legal Aspects of Juvenile Justice. (3-0) Credit 3 semester hours. Includes a study of the legal issues which commonly face administrators, managers, and employees of the juvenile justice system. Delves into public employment law, civil rights laws, and juvenile laws relating to the efficient functioning of agencies, and protections from lawsuits. Considers federal law and U. S. Supreme Court decisions relating to the legal rights of children as well as to the functioning of the juvenile justice system. Covers substantive and procedural issues relating to juvenile crime and delinquency. Compares and contrasts legal factors relating to juveniles with those relating to adults. Prerequisites: Admission to doctoral program.

JJUS 7853. Prevention and Treatment of Crime and Delinquency. (3-0) Credit 3 semester hours. Exploration and explanation of the theoretical development of juvenile crime prevention and treatment. The historical growth of juvenile crime prevention and models of juvenile crime control, community action programs, mentoring programs, and technology systems are examples of topics treated. Prerequisites: Admission to doctoral program.

JJUS 7863. Policy Analysis and Program Evaluation. (3-0) Credit 3 semester hours. Explores theories and methods of organizational change with suggested applications to agencies and organizations related to the juvenile justice and criminal justice systems. Identifies methods of developing a continuous capacity for change in juvenile justice and criminal justice agencies. Discusses evaluation methodologies. Prerequisites: Admission to doctoral program.

JJUS 7873. Advanced Seminar in Crime and Delinquency Theory. (3-0) Credit 3 semester hours. Emphasizes analytical, critical evaluation of theory, particularly contemporary versions. Assumes that the student is knowledgeable of each of the major arguments for the causes and correlates of crime. Theory development, theory integration and techniques of theory construction will be examined. Prerequisites: Admission to doctoral program and JJUS 7773.

JJUS 7943. Advanced Research Methods I. (3-0) Credit 3 semester hours. Examines research designs most useful to juvenile justice problems. The primary focus is on quasi-experimental and survey methodologies, with discussion of data collection methods and construction of questionnaires, as well as validity and reliability. Prerequisite: Admission to doctoral program and JJUS 5943 or equivalent.

JJUS 7953. Advanced Research Methods II. (3-0) Credit 3 semester hours. Examines research design problems in juvenile justice at an advanced level; use of sophisticated classical research designs and data-gathering techniques; analysis of problems related to sampling theory and procedures; application of mathematical models to problems in research design and analysis; use of techniques permitting causal inferences. Prerequisites: Admission to doctoral program and JJUS 7943.

JJUS 7963. Advanced Statistical Techniques I. (3-0) Credit 3 semester hours. Discusses nonparametric and parametric statistical techniques including various ordinal tests, multiple regression, logistic regression, discriminate analysis, multivariate analysis of variance, canonical correlation, factor analysis, cluster analysis, and multidimensional scaling. Prerequisite: Admission to doctoral program and JJUS 5963 or equivalent.

JJUS 7973. Advanced Statistical Techniques II. (3-0) Credit 3 semester hours. Includes a survey of reliability analysis, loglinear, and logit loglinear analysis, nonlinear, weighted and two stage least-squares regression, probit analysis, time-series and survival analysis, and Cox regression. Prerequisite: Admission to doctoral program and JJUS 7963.

JJUS 8913. Dissertation I. (3-0) Credit 3 semester hours. Independent and original research leading to an acceptable doctoral dissertation. May be repeated. Prerequisite or co-requisite: Advancement to doctoral candidacy.

JJUS 8923. Dissertation II. (3-0) Credit 3 semester hours. Independent and original research leading to an acceptable doctoral dissertation. May be repeated. Prerequisite or co-requisite: Advancement to doctoral candidacy and JJUS 8913.

JJUS 8933. Dissertation III. (3-0) Credit 3 semester hours. Independent and original research leading to an acceptable doctoral dissertation. May be repeated. Prerequisite or co-requisite: Advancement to doctoral candidacy and JJUS 8923.

JJUS 8943. Dissertation IV. (3-0) Credit 3 semester hours. Independent and original research leading to an acceptable doctoral dissertation. May be repeated. Prerequisite or co-requisite: Advancement to doctoral candidacy and JJUS 8933.

JPSY 5113. Psychology and the Juvenile Law. (3-0) Credit 3 semester hours. Reviews the various areas, and ways, in which psychology interacts with the law and, in particular, the juvenile justice system. Explores topics such as psychological and psychiatric testimony; civil commitment; the rights of mental patients; competency to stand trial; the insanity defense; the antisocial personality; child custody disputes and determinations; the psychology of the courtroom; and legal rules and regulations governing the practice of psychology. Considers the utility and the limitations of psychological expertise in relation to the legal system. Required of all MSJFP students.

JPSY 5123. Psychology of Crime and Delinquency. (3-0) Credit 3 semester hours. Focuses on the major psychological theories of criminal and aggressive behavior as they apply to juvenile delinquency. Viewpoints from cognitive, psychodynamic, psychoanalytic, behavioral, social learning, descriptive, and development psychologies are discussed and compared with current psychodiagnostic classification systems. Case examples are used to illustrate the various theories. Required of all MSJFP students.

JPSY 5223. Substance Abuse. (3-0) Credit 3 semester hours. Provides a critical examination of various policy responses to the "drug program" in the United States based upon a review of selected empirical and theoretical studies. Includes an overview of drug usage by youth and adults and interrelationships between drug usage and juvenile crime.

JPSY 5233. Violence and Aggression. (3-0) Credit 3 semester hours. Critical evaluation and examination of violence and aggression, their origins and determinants, and their impact on the individual and society. Application to the field of forensic psychology will be emphasized through the liberal use of clinical and research material.

JPSY 5253. Domestic and Family Violence. (3-0) Credit 3 semester hours. Addresses types of family violence by examining the extent of the problem, factors contributing to violence, and the consequences of family violence upon the individual, family, community, and society. Emphasis is placed on prevention techniques, non-violent conflict resolution strategies, and programs and services for training and intervention.

JPSY 5263. Psychology and Treatment of the Juvenile Offender. (3-0) Credit 3 semester hours. Addresses the psychological factors leading to the causes, assessment, classification, and treatment of juvenile delinquency. Examines both psychodynamic and developmental approaches, emphasizing neurotic, constitutional and psychopathological factors contributing to delinquency. Reviews the major psychological treatment approaches, with relevant case studies presented for illustrative detail. Analyzes legal and institutional responses to juvenile crime from the perspective of learning theory and developmental psychology. Discusses the role of the psychologist in the juvenile justice system.

JPSY 5413. Behavior Modification and Learning Theory. (3-0) Credit 3 semester hours. Examines various psychological learning theories. Addresses principles of behavior modification, operationalizing and assessing behavior, specific behavior therapy techniques, the design and empirical evaluation of behavior change programs, and the application of behavior therapy to treat clinical disorders in youth.

JPSY 5423. Conflict Mediation/Resolution. (3.0) Credit 3 semester hours. Examines the nature and uses of mediation as a conflict resolution method while taking into consideration the adversarial legal system. The course expands upon the variety of dispute resolution methods applicable to settings in families, neighborhoods, classrooms and juvenile justice agencies.

JPSY 5433. Counseling. (3.0) Credit 3 semester hours. An-in-depth evaluation of counseling as it is applied in the juvenile justice and juvenile correction settings. Emphasizes a psycho-social approach to the study of behavior with priority given to immediacy. Explores various treatment models, interviewing, interpersonal communication, and crisis intervention.

JPSY 5443. Group Dynamics and Group Treatment. (3-0) Credit 3 semester hours. Facilitates the understanding of the dynamics of small groups and larger organizations, emphasizing groups formed for the purpose of psychotherapy and rehabilitation of offenders, as well as the group dynamics of institutions designed to work with delinquent populations. Topics include leadership, role specialization, group formation and development, composition and goals, group violence, group resistance to change, and those factors that facilitate positive growth within groups.

JPSY 5453. Childhood Psychopathology. (3-0) Credit 3 semester hours. A focus on the psychological treatment and prevention of select examples of childhood psychopathology. Emphasis will be placed on those disorders that result in contact with the criminal justice system. Child disorders will be selected from among the following diagnostic categories; conduct disorders, attention deficit disorders, borderline, and schizophrenic disorders. Emphasis will be placed on children who grow up under unusually stressful conditions or experience forms of serious psychological trauma early in life.

JPSY 5523. Introduction to Neuropsychology. (3-0) Credit 3 semester hours. Surveys the field of neuropsychology, including its relevant underpinnings, its place within traditional and forensic settings, and practical applications in the areas of assessment and rehabilitation of brain injury. This introduction examines brain-behavior correlates, psychological tests employed in the evaluation of nervous system trauma, and the common syndromes affiliated with such injury.

JPSY 5533. Social Psychology and the Legal System. (3-0) Credit 3 semester hours. Applies social psychological knowledge to the juvenile justice system. Places special focus on topics such as social psychology of justice institutions, environmental psychology, socialization into roles and identity, collective behavior, research on juries, attitude formation and change, and criminal identification.

JPSY 5763. Developmental Psychology. (3-0) Credit 3 semester hours. Critical analyses of psychological development throughout the life span. Both cognitive and personality development will be considered from various theoretical perspectives as well as from empirical findings. Particular attention will be paid to the development of aggression in various states. Required of all MSJFP students.

JPSY 5773. Psychology Seminar. (3-0) Credit 3 semester hours. Provides an opportunity for exploration of areas of forensic psychology not covered in other courses. The instructor, who may use projects and/or research articles, chooses topics.

JPSY 5843. Personality Assessment I. (3-0) Credit 3 semester hours. Intelligence and Cognition. Provides practical experience in the evaluation of cognitive and intellectual functioning in children, adolescents, and adults. Focuses on the administration, scoring and interpretation of instruments such as the WAIS-R, the WISC-R, the WPPSI, and the Stanford Binet. Discusses general issues such as the nature of human intelligence and its measurement with explicit linkage to issues in forensic psychology. Required of externship option.

JPSY 5853. Personality Assessment II. (3-0) Credit 3 semester hours. Objective Personality Assessment. Provides advanced experience in the administration and interpretation of objective personality tests such as the MMPI, MCMI, and CPI. Surveys the literature regarding the development and validity of objective measures of personality. Forensic applications of objective personality measures are discussed. Prerequisite: JPSY 5843. Required of externship option.

JPSY 5863. Clinical Interviewing. (3-0) Credit 3 semester hours. Centers on the clinical interview as a means of gathering relevant life data, defining problems, and resolving conflicts. Surveys the theory and use of the interview, particularly as related to various counseling theories.

JPSY 5943. Research Methods. (3-0) Credit 3 semester hours. Includes defining and specifying research problems; developing and testing hypotheses; the logic of causal inference; learning to use the variety of research designs; sampling procedures; the collection, processing, and storing of research data, and the ethics of research. Required of thesis option for MSJFP students.

JPSY 5963. Applied Statistical Methods and Computing. (3-0) Credit 3 semester hours. A study of descriptive and inferential statistics, measures of central tendency and variability, estimation, hypothesis testing, analysis of variance, simple and multiple regressions and nonparametric methods. Students learn the use and value of each statistic while using SPSS as a problem solving tool. Prerequisite: JPSY 5943. Required of thesis option for MSJFP students.

JPSY 5773. Psychology Seminar in Selected Topics. (3-0) Credit 3 semester hours. This course is designed to provide students instruction in developing areas of forensic psychology.

JPSY 5973. Field Work in Psychology. (3-0) Credit 3 semester hours. Provides supervised experience assisting psychologists in the assessment, management, and treatment of patients. Students work in an applied institutional setting, such as a juvenile facility, special treatment clinic, hospital, or rehabilitation setting. Training includes interviewing and taking case histories, observations, staff and case conferences. This field work course provides supervision and experience with emotionally disturbed pre-delinquent and delinquent children in institutional, school, and community settings. Develops skills in evaluation and treatment of such youths. Field work training is supplemented by conferences with a faculty advisor. Prerequisites: completion of a minimum of 12 graduate credits in the degree including JPSY 5843, 5853. Required of externship option.

JPSY 5983. Thesis. (3-0) Credit 3 semester hours. Independent and original research leading to an acceptable master's thesis. Required of thesis option.

College of Nursing

NURS 5003. Transcultural Family Health Care in Rural and Urban Settings. (3-0) Credit 3 semester hours. Explores the cultural dimension of health care delivery in urban and rural settings. Emphasis is placed on examining concepts including health promotion, epidemiology and vulnerable populations. Opportunities are provided to apply theories from family studies, public health, community health nursing and primary health care to empower families and communities to promote healthy lifestyles. (Core Course) Prerequisite: Admission to the program.

NURS 5013. Theoretical Foundations of Nursing. (3-0) Credit 3 semester hours. Presents theoretical foundations for nursing. Explores relationships between theories and advanced practice nursing. Examines various theories in nursing practice and other health care disciplines. (Core Course) Prerequisite: Admission to the program.

NURS 5022. Transcultural Family Health Care in Rural and Urban Settings. (2-0) Credit 2 semester hours. Explores the cultural dimension of health care delivery in urban and rural settings. Family theories, assessment instruments and therapeutic intervention strategies will be explored. Emphasis is placed on examining concepts including wellness, health promotion, epidemiology, case management, economics, and health care financing for vulnerable/minority populations. Core Course.

NURS 5023. Advanced Pharmacology. (3-0) Credit 3 semester hours. Provides a comprehensive understanding of the therapeutic use of major drug classifications for clients of all ages. Emphasis is on the application of drug therapy to the promotion of health and the treatment of disease. Advanced pharmacodynamic and pharmacokinetic principles will be analyzed. (Advanced Practice Core Course) Prerequisite: Admission to the program

NURS 5033. Advanced Pathophysiology. (3-0) Credit 3 semester hours. Advanced study of physiological and pathological processes at biochemical, cellular, organ and system levels. Course content includes biologic variations and susceptibility to pathology across different ethnic groups and specific populations. (Advanced Practice Core Course) Prerequisite: Admission to the program.

NURS 5042. Role Theory and Ethics in Advanced Practice Nursing (2-0) Credit 2 semester hours. Role theory is utilized for analyzing the dimensions of the role of the APN. Competencies of the APN are examined. Ethical decision-making models are explored to promote role transition and integration. The legal bases of the role are also presented. (Advanced Practice Core Courses) Prerequisite: Consent of instructor.

NURS 5133. Clinical Research. (3-0) Credit 3 semester hours. The course focuses on the use of research methodologies to analyze nursing practice problems for a population of diverse ethnic and socio-economic backgrounds. The interrelationship between theory, practice and evidenced-based research, and the use of nursing knowledge for the improvement of clinical outcomes is emphasized. Review of major research designs, methods, and ethical requirements of scientific inquiry are addressed. (Core Course) Prerequisite or Co-requisite: NURS 5013

NURS 5214. Advanced Health Assessment with Practicum. (2-8) Credit 4 semester hours. Builds upon basic physical assessment and history taking skills by increasing the depth and breadth of student knowledge related to the principles and techniques of interviewing, screening, and physical assessment across the lifespan. Includes interpretation of data and differential diagnosis. A structured laboratory and/or 8 hour practicum per week in an urban and rural setting is a course requirement. (Advanced Practice Course) Prerequisite: NURS 5003, NURS 5033, NURS 5133, Satisfactory performance on a health assessment exam.

NURS 5215. Primary Health Care for the Childbearing/Childrearing Family with Practicum. (2-12) Credit 5 semester hours. This combined theory and practicum courses focuses on the role of the family nurse practitioner in caring for childbearing and childrearing families from diverse populations. Emphasis is placed on health promotion/maintenance, health risk assessment and acute symptoms management. Growth and development and psychosocial stages and tasks are presented. In clued practicum experiences in urban and rural communities. (Nurse Practitioner Specialty Course) Prerequisite: Admission to candidacy for graduate degree and NURS 5215.

NURS 5245. Primary Health Care for the Adult and Elderly with Practicum. (2-12) Credit 5 semester hours. This combined theory and practicum course focuses on the role of the family nurse practitioner in the management of the adult and elderly client in urban or rural communities. The emphasis is placed on health risk assessment, health maintenance/restoration and management of acute and chronic problems. Include practicum experiences in a variety of settings. (Nurse Practitioner Specialty Course) Prerequisite: Admission to candidacy for graduate degree and NURS 5215.

NURS 5253. Urban/Rural Primary Health Care. (3-0) Credit 3 semester hours. This is a theoretical course that focuses on the interdisciplinary approach to applying principles and concepts of primary health care to meet the needs of urban and/or rural populations. Opportunities are provided to theories of public health, community health nursing and primary health care. Emphasis is placed on community assessment, problem identification and mobilization of communities to promote wellness within an interdisciplinary framework. (Nurse Practitioner Specialty Course) Prerequisite: Admission to the Program.

NURS 5257. Management of Complex Health Problems. (2-20) Credit 7 semester hours. In this course, the student uses theoretical, scientific, and current clinical knowledge for the assessment and management of clients with complex health problems in selected vulnerable populations. Topics will include management of complex diseases, role implementation, research utilization, decision-making, consultation and referral for APN practice. (Nurse Practitioner Specialty Course) Prerequisite: NURS 5245.

NURS 5713. Health Policy. (3-0) Credit 3 semester hours. This course focuses on the development of health care policy. Current, local, state, and national issues influencing health policies are reviewed. Health care delivery models are explored as well as the concepts of power, political action, activism and networking. Major health policy issues facing advanced practice nursing in the 21st century are considered. (Core Course) Prerequisite: Admission to the program.

NURS 5743. Writing for Publication. (3-0) Credit 3 semester hours. Designed to help students understand the publication process and to improve scholarly writing abilities. Each student will prepare a manuscript and submit it to a selected nursing journal for publication consideration. Students are encouraged to have a topic and target journal identified before class begins. Prerequisite: NURS 5133.

NURS 5753. HIV/AIDS Issues and Challenges. (3-0) Credit 3 semester hours. Emphasis on the social, economic, psychological, ethical, and legal issues associated with living with HIV and caring for persons with HIV.

NURS 5763. Financial Management in Advanced Nursing Practice. (3-0) Credit 3 semester hours. This course focuses on health care financing at the local, state and national levels as well as the concepts of reimbursement, contract, negotiation, and partnerships in practice. Cost effective analysis is explored as a tool to examine cost and outcomes for the care diverse populations. (Advanced Practice Core Course) Prerequisite: NURS 5215.

NURS 5803. Thesis. Proposal Writing. (3-0) Credit 3 semester hours. Concepts of research techniques and designs are explored. A research proposal is developed.

NURS 5903. Thesis. (3-0) Credit 3 semester hours. Application of research skills to thoroughly develop thesis on topic approved by advisor. Prerequisite: Nursing 5803. May be repeated for 3 credit hours.

NURS 5983. Special Topics. (3-0) Credit 3 semester hours. Exploration of a single topic not covered in the graduate curriculum (i.e. curriculum development, curriculum evaluation, and skills practicum) but related to Health Care and/or Nursing. The course may be repeated for credit with a different topic, to a maximum of 6 credits. Prerequisite: Consent of instructor.

NURS 5991-5993. Independent Study. (0-0) Credit 1-3 semester hours. Provides an opportunity for the student to engage in independent study in an area of interest.

PRAIRIE VIEW A&M UNIVERSITY
Officers of Instruction for 2003-2004
College of Agriculture and Human Sciences

BRIGGS, RONALD S.

B.S., Prairie View A&M University, 1969
 M.S., Atlanta University, 1975
 D.S.W., Howard University, 1984

DANIELS, TROY L.

B.S., Freed-Hardeman College, 1979
 M.S., Mississippi State, 1981
 Ph.D., Oklahoma State University, 1989

DIXON, BARBARA G.

B.S., Prairie View A&M University, 1967
 M.S., Hunter College, CUNY, 1974

GRIFFIN, RICHARD W.

B.S., North Carolina State, 1984
 M.S., North Carolina State, 1986
 Ph.D., Texas A&M University, 1991

KEYS, NATHANIEL

B.S., Jackson State University, 1973
 M.S., University of Wisconsin-Madison, 1975
 Ph.D., Mississippi State University, 1986

McWHINNEY, DALTON

B.S., Prairie View A&M University, 1982
 M.S., Prairie View A&M University, 1984
 Ph.D., Texas A&M University, 1992

McWHINNEY, SHARON L.

B.S., Bluffton College, 1981
 M.S., Prairie View A&M University, 1985
 Ph.D., Texas A&M University, 1991

McWHORTER, RICHARD

B.A., Sam Houston State University, 1973
 M.S., Sam Houston State University, 1989

MIXON, BOBBY

B.B.A., Southern Arkansas University, 1976
 M.S., University of Arkansas, 1979
 Ph.D., University of Oklahoma, 1996

NOEL, ELIZABETH L. (1975)

B.S., Prairie View A&M University, 1971
 M.Ed., Prairie View A&M University, 1974
 Ph.D., Kansas State University, 1983

PARKS, ALFRED

B.S., Arkansas AM&N University, 1967
 M.S., University of Illinois, 1969
 Ph.D., University of Illinois, 1973

POINDEXTER, ALFRED

B.S., Kansas State Teachers College, 1941
 D.V.M., Kansas State University, 1945

REYES, JUANITO C.

B.S., University of Philippines, 1957
 M.S.A., Araniita University, 1963
 Ph.D., Kansas State University, 1971

RICHARDS, FREDDIE L.

B.S., Alabama A&M University, 1966
 M.Ed., Tuskegee Institute, 1969
 Ph.D., Pennsylvania State University, 1972

SHELTON, NATHANIEL, JR.

B.S., Tuskegee Institute
 D.V.M., Tuskegee Institute, 1985

STANLEY, VICTOR G.

B.S., Tuskegee Institute, 1965
 M.S., Iowa State University, 1968
 Ph.D., Texas A&M University, 1984

STRICKLAND, CECIL L.

B.S., Prairie View A&M University, 1960
 M.S., University of Illinois, 1963
 Ed.D., North Carolina State University of Raleigh, 1974

WEATHERSPOON,

B.S., Savannah State College, 1948
 M.S., Kansas State College, 1953

School of Architecture

ABRAHAMS, CARYL

B.A., University of Florida, 1962
 M.S., University of Texas, 1970
 Ph.D., University of Texas, 1978

BALDWIN, RICK

B.S., University of Houston, 1975
 M.B.A., Amber University, 1993
 D.B.A., Nova Southeastern University, 2001

BRADFORD, NICOLE

B.S., Grambling State University, 1995
 M.S., Grambling Stat University, 1996
 Ed.D., Texas Southern University, 2001

GRIFFIN, JAMES B.

B.A., Emoray University, 1956
 M.A., Duke University, 1962
 Ph.D., University of North Carolina, 1964
 M. Arch., North Carolina Stat University, 1975

NORWOOD, BARRY H.

B. Arch., University of Houston, 1982
 M. Arch., University of Houston, 1984

SABOUNI, IKHLAS

B. Arch, Damascus University, 1979
 M. Arch., Rice University, 1981
 Ph.D., Rice University, 1987

WOOD, PETER J.

B.A., Yale College, 1965
 M. Arch., Yale School of Architecture, 1971

College of Arts & Sciences

BROWN, GEORGE E.,

B.S., Prairie View A&M University, 1960
 M.S., University of Florida, 1972
 Ph.D., University of Florida, 1976

BUTUK, NELSON K.

B.S., University of Nairobi, 1979
 M.S., University of Minnesota, 1983
 Ph.D., University of Oklahoma, 1996

CARTY, ANTOINE F.,

B.A., Fisk University, 1978
 M.A., Fisk University, 1978
 M.S., Howard University, 1986
 Ph.D., Howard University, 1989

CHATHA, Diljit K.

B.A., Panjab University, 1960
 M.A., Jodhpur University, 1963
 M.A., Texas Christian University, 1975
 Ph.D., Texas Woman's University, 1984

CLARK, ROBERT, LTC

B.A., University of South Carolina, 1982
 .B.A., University of South Carolina, 1999

COTTON, ALLISON

B.A., University of Colorado, 1991
 M.A., Howard University, 1995
 Ph.D., University of Colorado, 2002

DAVIES, AROUNA R.

B.S., Durham University, England, 1979
 M.B.A., London University, England, 1975
 Ph.D., New Mexico State University, 1986

DOCTOR, VASANT M.,

B.S., Royal Institute of Science, 1946
 M.S., University of Wisconsin, 1951
 Ph.D., Texas A&M University, 1953

DOUGLAS, KAREN,

B.B.A., University of Texas at Austin, 1986
 M.A., University of Texas at Austin, 1993
 Ph.D., University of Texas at Austin, 1999

HAGHIGHI, ALIAKBAR M.

B.A., San Francisco State University, 1966
 M.A., San Francisco State University, 1971
 Ph.D., Case Western Reserve University, 1976

HAWKINS, FRANK T.

B.S., Prairie View A&M University, 1958
 M.S., Prairie View A&M University, 1965
 M.A.T., University of Illinois, 1969
 Ed.D., University of Houston, 1975

HENDERSON, LEE E.,

B.S., Prairie View A&M University, 1963
 M.S., Prairie View A&M University, 1972
 M. Ed., Prairie View A&M University, 1976
 Ed. D., University of Houston, 1980

HENSON, DEXTER Q., LTC

B.A. University of Arkansas at Pine Bluff, 1985
 M.S., Troy State University, 1998

HOWARD-LEE, HARRIETTE E.,

B.S., Fisk University, 1975
 M.S., Atlanta University, 1978
 Ph.D., Atlanta University, 1981

HRITONENKO, BORODINA N.

M.S., Byelorussian University, 1981
 Ph.D., Byelorussian University, 1990

JONES, ROBERT P.,

B.A., University of Kansas, 1964
M.S.W., University of Kansas, 1968
Ph.D., University of Missouri, 1977

KEATON, APHONSO K.

B.A., Fisk University, 1998
M.A., Fisk University, 1990
Ph.D. Meharry Medical College, 1995

KING, VERA C.

B.S., Prairie View A&M University, 1960
M.S., Prairie View A&M University, 1965
A.M., University of Illinois, 1971
Ed.D., University of Houston, 1976

LARRY, JAMES, CPT

B.S., Prairie View A&M University, 1998
M.B.A., Prairie View A&M University,
2000

LIAN, JIAN-AO

B.S., Xian Jiaotong University, 1984
M.S., Xian Jiaotong University, 1987
Ph.D., Texas A&M University, 1993

MARTIN, EDWARD W.

B.A., Fisk University, 1950
M.A., Indiana University, 1952
Ph.D., University of Iowa, 1962

McWHINNEY, HYLTON G.,

B.S., Prairie View A&M University, 1984
M.S., Prairie View A&M University, 1985
Ph.D., Texas A&M University, 1991

MICHEV, DIMITAR P.

B.S., Sophia University, 1984
M.S., Sophia University, 1987,
Ph.D., Sophia University, 1993

MUONEKE, n'EKWUNIFE

B.Sc., University of Nigeria, 1975
M.S., University of Michigan, Ann Arbor,
1978
Ph.D., University of Houston, University
Park, 1985

REGISFORD, E. GLORIA C.

B.S., University of Rhode Island, 1985
M.S., The Pennsylvania State University,
1988
Ph.D., Rutgers, The State University of New
Jersey, 1994

ROBERTS, ANITA, MAJ

B.A., University of South Alabama 1995

ROBERTS, GEORGE A.

B.S., Wiley College, 1964
M.A., University of Arizona, 1966
Ph.D., Texas A&M University, 1979

SMITH, SEAB A.,

B.S., Southern University, 1961
M.S., Northwestern State University of
Louisiana, 1970
Ed.D., University of Houston, 1981

THORNTON, EVELYN E.

B.S., Texas Southern University, 1955
M.S., Texas Southern University, 1957
Ph.D., University of Houston, 1973

WATKINS, HALCYON O.

B.S., Texas Southern University, 1961
DVM., Tuskegee University, 1968

WETIBA, JOHNSON, K.

B.A.M., Bluffton College, 1984
M.S., Prairie View A&M University, 1987
Ph.D., Tulane University, 1996
B.S., Texas Southern University, 1969
Ph.D., Massachusetts Institute Technology,
1976

WILLIAMS, SARAH B.,

B.A., University of Texas at Austin, 1970
M.S.W., University of Houston, 1972
Ph.D., University of Texas at Austin, 1978

WRIGHT, GEORGE C.

B.A., University of Kentucky, 1972
M.A., University of Kentucky, 1974
Ph.D., Duke University, 1977

College of Business

BAILEY, WILLIAM T.

B.A., University of Texas - Austin, 1965
M.P.A., University of Texas - Austin, 1968
Ph.D., University of Texas - Austin, 1978

DEBNATH, SUKUMAR

B.Com., University of Chittagong, 1975
M. Com., University of Dacca, 1976
MBA, University of Southern Mississippi,
1983
DBA, Mississippi State University, 1998

DESSELLE, BETTYE

B.S., Louisiana State University, 1971
M.B.A., University of Wisconsin, Madison,
1975

GREENWADE, GEORGE

B.B.A., General Business, Texas Tech
University, 1979
M.S. Economics, Oklahoma State
University, 1979
Ph.D. Economics, Texas Tech University,
1988

GUPTA, OMPRAKASH K.

B. Sc. Gujarat University, 1973
M.S., Purdue University, 1975
Ph.D., Purdue University, 1980

HILL, JEANNE C.

B.A., Northeast Louisiana
University, 1968

M.S., Northeast Louisiana University, 1970
Ph.D., University of Alabama, 1976

KHAN, MOHIUDDIN M.,

B.A., Dhaka University, 1975
M.A., Dhaka University, 1976
M.A., University of Manitoba, 1979
Ph.D., Simon Fraser University, 1986

NELSON, GEORGE

B.S., University of Tennessee, 1960
MBA, George Washington University, 1968
Ph.D., North Texas State University, 1988

OPARA, EMMANUEL U.

B.S., University of South Alabama, 1980
M.B.A., University of Houston, 1985
D.B.A., Golden State University, 1995

PENCE, DIANA KAY

B.S. B.A. University of Nebraska at Omaha,
1982
M.P.A., University of Nebraska at Omaha,
1984
Ph.D., University of North Texas, 1996

QUAZI, RAHIM

B.A., Illinois Wesleyan University, 1992
Ph.D., University of Illinois, Urbana-
Champaign, 1999

QUDDUS, MUNIR

B.S., Economics, Dhaka University, 1978
M.A., Economics, Vanderbilt University,
1983
Ph.D., Economics, Vanderbilt University,
1985

REED, RANDY

B.Sc., University of North Texas, 1972
M.B.A., Texas A&M University, Texarkana,
1989
D.B.A., Louisiana Tech University, 1998

SUTANTO, PETER

B.S., Universitas Katolik Parahyangan, 1980
M.A., Rice University, 1983
Ph.D., University of Houston, 1996

TANDON, SUDHIR

B.S., Indian Institute of Technology, 1979
M.S., Southern Illinois University, 1987
Ph.D., Texas Tech University, 1995

VETTER, WILLIAM

B.S., University of Oregon, 1966
J.D., University of Oregon, 1968
LL.M., George Washington University,
1986

YANG, JIAN

B.S. Nankai University, 1990.
M.S., Texas A&M University, 1998
Ph.D., Texas A&M University, 1999

College of Education

AROWOSAFE, OLUMUYIWA,

B.S., Lincoln University, 1982
M.B.A., Lincoln University, 1985
Ph.D., Texas A&M University, 1998

BAILEY, MARTHA L.,

B.S., Southern University, 1972
M.A., Southern University, 1973
Ed.D., University of Houston, 1977

BOOKER, CLARISSA G.,

B.S., Prairie View A&M University, 1968
M.A., University of Northern Colorado, 1969
Ed.D., University of Houston, 1977

- BUTLER, DOUGLAS M.,**
B.A., Manhattan College, 1977
M.S., City College-New York, 1979
M.Ed., University of Texas at Austin, 1984
Ph.D., University of Texas at Austin, 1993
- CAESAR, BILL G.**
B.S., Sam Houston State University, 1952
M.Ed., Sam Houston State University, 1954
- COLEMAN, LEE R.,**
B.S., Prairie View A&M University, 1967
M.Ed., Prairie View A&M University, 1973
- DUKE, IRENE L.,**
B.S. Northeast Louisiana University, 1982
Ed.D., Grambling State University, 1987
- GARNER, LINDA L.,**
B.S., Baylor University, 1963
M.S., Sam Houston State University, 1969
Ed.D., Texas Southern University, 1985
- GLENN, CLEMENT E.,**
B.B.A., Prairie View A&M University, 1986
M.B.A., Prairie View A&M University, 1988
Ph.D., Texas A&M University, 1998
- GREGORY, J.D.,**
B.S., Lamar University, 1965
M.A., University of Missouri-Kansas City, 1970
Ed.D., Texas Southern University, 1985
- HANSEN, JUDITH,**
B.S., Eastern Michigan University, 1969
M.A., Eastern Michigan University, 1992
Ed.D., University of Houston, 2001
- HAWKINS, MARY S.,**
B.S., Prairie View A&M University, 1963
M.S., Prairie View A&M University, 1969
Ed.D., University of Houston, 1979
- HENRY, MARION,**
B.S., Southern University, 1952
M.S., Bradley University, 1953
Ph.D., Syracuse University, 1972
- HERRINGTON, DAVID E.,**
B.S., Abilene Christian College, 1973
M.Ed., Sul Ross University, 1977
Ph.D., Texas A&M University, 1993

- HOWARD, RONALD**
B.S., Florida A&M University, 1969
M.Ed., Florida A&M University, 1973
Ph.D., Florida State University, 1981
- JOHNSON, DEBRA J.,**
B.A., Huston-Tillotson College, 1974
M.Ed., Texas Southern University, 1990
Ph.D., University of Texas at Austin, 2003
- JOHNSON, WANDA.,**
B.M.Ed., University of Central Oklahoma, 1970
M.Ed., University of Central Oklahoma, 1975
Ph.D., Oklahoma State University, 1989
- MARTIN, QUEEN E.,**
B.S., University of Houston, 1978
M.P.A., Texas Southern University, 1994
D.P.H., University of Texas Health Center, 2001
- MCFRAZIER, MICHAEL,**
B.M.E., Baylor University, 1991
M.M., Baylor University, 1993
M.S., Baylor University, 1995
Ed.D., University of Arkansas, 1998
- MASON, EDWARD,**
B.S., University of Sierra Leone, 1977
M.S., Texas Southern University, 1980
Ph.D., University of Houston, 1997
- MEHTA, M. PAUL,**
B.A., Punjab University, 1956
B.T., Punjab University, 1958
M.A., Punjab University, 1960
M.A., Punjab University, 1963
M.A.T., University of Montana, 1968
D.Ed., University of Montana, 1970
- NDUBUIKE, DARLINGTON, I.**
B.A., University of Houston, 1985
M.A., University of Houston, 1987
Ed.D., University of Houston, 1994
- ORMAN, BILLE E.,**
B.A., Samuel Huston College, 1948
M.Ed., Prairie View A&M University, 1956
Ed.D., University of Texas - Austin, 1979
- OSTERHOLM, KAREN C.,**
B.A., Sam Houston State University, 1971
M.S., Texas A&M University, 1984
Ph.D., Texas A&M University, 2001

- PARKER, WILLIAM H.,**
B.S., Alcorn State University, 1962
M.S., Indiana University, 1966
Ed.D., University of Miami, 1974
- PERSON, CONSTANCE Y.,**
B.S., Howard University, 1967
M.S., Howard University, 1971
M.S., University of Santa Clara, 1979
Ed.D., University of San Francisco, 1985
- PERSON, OSWELL,**
B.S., District of Columbia Teachers College, 1969
Ph.D., Michigan State University, 1976
- ROSS, WILLIAM,**
B.A., Luther College, 1978
M.A., Northern Arizona University, 1991
Ed.D., Texas Southern University, 1999
- SIMMS, KEVIN B.**
B.S., Stillman College, 1982
M.S., Ed., Jackson State University, 1983
Ph.D., Kansas State University, 1990
- TROTTOY, WILLIE F.,**
B.S., Stephen F. Austin State University, 1970
M.S., Stephen F. Austin State University, 1972
Ph.D., Purdue University, 1977
- WASHINGTON, BOBBIE**
B.S., Grambling State University, 1962
M.A., Louisiana Tech University, 1970
Ed.S., Louisiana Tech University, 1985
Ed.D., East Texas State University, 1991
- WEBSTER, WAYMON T.,**
B.A., Prairie View A&M University, 1952
M.A., Prairie View A&M University, 1954
Ph.D., Texas A&M University, 1972
- WHITE, FRANCIS A.,**
B.S., Alcorn State University, 1963
M.S., Indiana University, 1971
Ed.D., Virginia Tech University, 1978
- WHITE, MARY L.,**
B.S., Alcorn State University, 1955
M.S., Prairie View A&M University, 1963
Ed.D., East Texas State University, 1973

- WRIGHT, RUEBEN L.,**
B.S., University of Houston, 1977
M.S., Prairie View A&M University, 1985
M.M.A.S., Command and General Staff College, 1992
Ph.D., Old Dominion University, 1998

College of Engineering

- AKUJUOBI, CAJETAN,**
B.S.E.E., Southern University, Baton Rouge, LA, 1980
M.S.E.E., Tuskegee University, 1983
M.B.A., Hampton University, 1987
Ph.D., George Mason University, 1995
- ATTIA, JOHN O.,**
B.S.E.E., University of Science and Technology, 1974
M.S., University of Toronto, 1978
Ph.D., University of Houston, 1984
- BINEY, PAUL O.,**
B.S., University of Science & Technology, 1976
M.S., Oklahoma State University, 1980
Ph.D., University of Houston, 1987
- BOYD, RONALD D.,**
B.S., Tuskegee University, 1968
M.S., University of New Mexico, Los Alamos, 1970
Ph.D., University of Michigan, Ann Arbor, 1976
- BRYANT, MILTON R.**
B.S., Florida Southern College, 1965
M.Eng., Texas A&M University, 1968
Ph.D., Texas A&M University, 1973
- CHANG, ING,**
B.S., National Taiwan University, 1961
M.S., Rice University, 1965
Ph.D., Rice University, 1969
- FOTOUH, KAMEL H.,**
B.S., Cairo University, Egypt, 1965
Ph.D., University of Oklahoma, 1977

FULLER, JOHN H.,
B.S.E.E., Prairie View A&M University, 1969
M.S.E.E., University of Missouri, 1974
Ph.D., University of Missouri, Columbia, 1977

GABITTO, JORGE F.,
B.S., Buenos Aires University, Argentina,
1979
Ph.D., Buenos Aires University, Argentina,
1983

GYAMERAH MICHAEL,
B.S., University of Science and Technology,
Ghana, 1978
Ph.D., Loughborough University, UK, 1984

HUQUE, ZIAUL,
B.S., Bangladesh University of Engineering
and Technology, 1980
M.S., Clemson University, 1982
Ph.D., Oregon State University, 1991

KIRBY, KELVIN K.,
B.S.E.E., Prairie View A&M University, 1978
M.S.E.E., Texas A&M University, 1987
D.Eng., Texas A&M University, 1998

KOAY, SIEW T.,
B.S., Taiwan University, 1962
M.S., University of Toledo, 1964
Ph.D., University of California, Berkeley,
1971

KOMMALAPATI, RAGHAVA R.,
B. Tech., Nagarjuna University, India 1988
M. Tech., Kakatiya University, India 1990
M.S., Louisiana State University, 1994
Ph.D., Louisiana State University, 1995

KUMAR, ABBURI,
B.S., Osmania University, Hyderabad, 1971
M.S., India Institute of Technology, Delhi
1973
Ph.D., India Institute of Science, Bangalore,
1978

LACOVARA, ROBERT,
B.E., Stevens Institute of Technology, 1974
M.S.E.E., Stevens Institute of Technology,
1976
Ph.D., Stevens Institute of Technology, 1988

LIN, SHIELD B.,
B.S., National Chung-Hsing University,
Taiwan, 1975
M.S., Texas A&M University, Kingsville,
1981
Ph.D., Texas A&M University, 1986

MARTIN, KENT J.,
B.T.E., Georgia Institute of Technology, 1970
M.S., University of Tennessee, 1977
M.S., University of California - Irvine, 1993
Ph.D., University of California - Irvine, 1998

MASUDI, HOUSHANG,
B.S., University of Texas at Austin, 1969
M.S., University of Texas at Austin, 1974
Ph.D., Texas A&M University, 1984

MORGAN, JAMES O.,
B.S., Prairie View A&M University, 1969
M.S., Texas A&M University, 1974
D.Eng., Texas A&M University, 1984

OSBORNE-LEE, IRVIN W.,
B.S., The University of Texas at Austin, 1979
M.S., The University of Texas at Austin, 1983
Ph.D., The University of Texas at Austin,
1985

PAICK, KWANG H.,
B.S., Sogang Jesuit University, 1977
M.S., University of Nebraska-Lincoln, 1981
Ph.D., University of Texas at Austin, 1986

QIAN, LIJUN,
B.Eng., Tsinghua University, Beijing, China,
1993
M.S.E.E., The Technion-Israel Institute of
Technology, Haifa, Israel, 1996
Ph.D., Rutgers University, 2000

RADHAKRISHNAN, RAMALINGAM,
B.E., University of Madras, 1963
M.S., University of Madras, 1968
M.S., Brigham Young University, 1971
Ph.D., Brigham Young University, 1974

RAHMAN, KHANDAKER M.A.,
B.S.C.E., Bangladesh University of
Engineering Technology, 1960
M.S.C.E., Texas A&M University, 1963
Ph.D., Texas A&M University, 1974

RAMBALLY, GERARD,
B.S., University of Saskatchewan, 1973
B.Ed., University of Saskatchewan, 1975
M.Math, University of Waterloo, 1979
Ph.D., University of Oregon, 1982

SADIKU, MATTHEW,
B.En., Ahmadu Bello University, 1978
M.S.E.E., Tennessee Tech University, 1982
M.S., Florida Atlantic University, 1988
Ph.D., Tennessee Tech. University, 1984

TOLLIVER, CHARLES,
B.S., Southern University, 1963
M.S., Purdue University, 1971
Ph.D., Iowa State University, 1976

VAMAN, DHADESUGOOR R.,
B.E., Regional Engineering College, 1970
M.S.E.E., The City College of New York,
1975
Ph.D., The City College of New York, 1980

WILKINS, RICHARD T.,
B.S., University of Pittsburgh, 1984
Ph.D., Michigan State University, 1991

YAN, SHUGUANG,
B.S., Shanghai Jiao Tong University, 1994
M.S., East China Institute of Computer
Technology, 1997
Ph.D., University of Nebraska-Lincoln, 2002

YANG, FENG-JEN,
B.E., Feng Chia University, Taichung,
Taiwan, 1989
M.S., California State University, Chico, 1995
M.S., Florida International University, 1998
Ph.D., Illinois Institute of Technology, 2001

YANG, YONGGAO,
B.T.E., Southwest Jiaotong University, 1984
M.S., Southwest Jiaotong University, 1987
Ph.D., Southwest Jiaotong University, 1998
Ph.D., George Mason University, 2002

YEH, HSIANG Y.,
B.S., Cheng Kung University, 1962
M.S., University of New Mexico, 1967
Ph.D., University of New Mexico, 1969

ZHANG, YUKONG,
B.E., Wuhan University, China, 1983
M.S., Clemson University, South Carolina,
1996
M.S., Louisiana Tech University, 1998
Ph.D., Louisiana Tech University, 1999

ZHOU, JIANREN,
B.S., China Textile University, 1982
M.S., China Textile University, 1984
Ph.D., Iowa State University, 1991

College of Juvenile Justice

CARONA, ANTHONY
Associate Professor, Psychology
B.S. Sam Houston State University, 1972
M.A. Sam Houston State University, 1974
Ph.D. Texas A&M University, 1980

CINTRÓN, MYRNA
Associate Professor, Juvenile Justice
B.A. University of Puerto Rico, 1978
M.A. School of Law Inter-American
University, 1980
Ph.D. Florida State University, 1991

FRENCH, LAURENCE
Professor, Psychology
B.A. University of New Hampshire, 1968
M.A. University of New Hampshire, 1970
M.A. Western New Mexico University,
1994
Ph.D. University of New Hampshire, 1975
Post-Doctorate, State University of New
York, 1978
Ph.D. University of Nebraska, 1981

GIBSON, CAMILLE
Assistant Professor, Criminal Justice
B.A. University of South Florida, 1991
M.A. University of South Florida, 1994
M.Ph. City University of New York, 1999
Ph.D. City University of New York, 2001

LOVETT, M. DENISE
Assistant Professor, Psychology
B.S. Florida A&M University, 1987
M.S. Florida A&M University, 1990
Ph.D. University of Cincinnati, 1998

MUPIER, ROBERT M.

Associate Professor, Juvenile Justice
B.S. University of Kinshasa, 1975
M.A. Western Illinois University, 1986
D.A. Illinois State University, 1994

PENN, EVERETTE

Assistant Professor, Juvenile Justice
B.A. Rutgers University, 1991
M.A. University of Central Texas, 1994
Ph.D. Indiana University of Pennsylvania,
2000

PRICE, DELBERT

Assistant Professor, Psychology
Adjunct
B.A. Houston Baptist University, 1972
M.A. University of Houston, 1974
Ph.D. Texas A&M University, 1984

SNELL, CLETUS

Assistant Professor, Juvenile Justice
B.S. Montana State University, 1990
M.S. University of South Carolina, 1994
Ph.D. Sam Houston State University, 1999

SORENSEN, JONATHAN

Professor, Juvenile Justice
B.S. Pan American University, 1986
M.A. Sam Houston State University, 1987
Ph.D. Sam Houston State University 1990

H. RICHARD TACHIA

Associate Professor, Juvenile Justice
B.S. University of Nigeria, 1978
M.S. Iowa State University, 1983
Ph.D. Oklahoma State University, 1993

College of Nursing**ALLEN, PATRICIA**

B.S.N. Old Dominion University, 1976
M.S.N. Catholic University of America,
1980
Ed.D., Florida International University,
1994

BERNARD, LILLIAN F.

B.S.N. Prairie View A&M University, 1969
M.S.N., Texas Woman's University, 1974
Ed.D., Texas Southern University, 1989

BLAKE, JOANN P.

B.S.N. University of Illinois, 1967
M.S.N., University of Colorado, 1974
Ph.D., Texas Woman's University, 1987

CAGGINS, RUTH H.

B.S., Dillard University, 1967
M.A., New York University, 1973
Ph.D., Texas Woman's University-Houston,
1992

FRANKLIN-COOK, JOYCE M.

B.S., Prairie View A&M University, 1996
M.S., Prairie View A&M University, 2000

GAINES, CHLOE G.

B.S., Valdosta State College, 1974
M.S., University of Texas at Austin, 1981
Ph.D., Texas Woman's University, 1993

GOODMAN, JENNIFER B.

B.S.N. Tuskegee University, 1972
M.S.N., University of Alabama, 1975
Ph.D., Texas Woman's University, 1988

HAMMOCK, CELESTE

B.S., Corpus Christi State University, 1977
M.S., Texas Woman's University, 1979
Dr.P.H., Tulane University, 1995

IGBO, IMMACULATA N.

B.Sc., University of Ibadan, 1977
M.Sc., University of Nigeria, 1983
Ph.D., University of Nigeria, 1990

ROSE, GLORIA

B.S., University of Texas Medical Branch,
1993
M.S., Texas Woman's University, 1997

SHERER, JEFFREY T.

B.S., Ohio State University, 1994
Pharm.D., Medical University of South
Carolina, 1996

TANSEY, ELSA M.

B.S., St. Olaf College, 1962
M.S., University of Minnesota, 1966
Dr.P.H., University of Texas Health Science
Center, 1991

WILSON, ANNIE

B.S., Prairie View A&M University, 1964
M.S., Indiana University, 1970
Dr.P.H., University of Texas, 1982

Emeritus Faculty and Staff

Alvin I. Thomas,

Ph.D. President Emeritus

Edward W. Martin, Ph.D. Professor and Dean
Emeritus, College of Arts and Sciences

Benny L. Lockett Associate Administrator
Emeritus, Cooperative Extension Program

Thomas N. Fogarty, Ph.D. Distinguished
Professor and Director Emeritus,
Center of Applied Radiation Research

Charles A. Hines,

Ph.D. President Emeritus

Absences, Excessive, 43
 Absences, Excused, 43
 Absences, Religious Holy Days, 44
 Academic Advising, Registration, and Degree Plans, 39
 Academic Calendars, 1
 Academic Deans, 7
 Academic Dishonesty, Procedures, 46
 Academic Honesty, University Policy On, 44
 Academic Information and Regulations, 37
 Academic Programs, 51
 Academic Progress Standards, 42
 Academic Progress Standards, Doctoral Program, 43
 Academic Scholarships, 12; Eligibility, 13
 Accounting, Master of Science In, 78; Admission Requirements, 78; Program Requirements, 79
 Accreditation, Ii
 Accreditation, Ii
 Administrative officers, 7
 Administrative Organization, 9
 Administrative Withdrawal, 42
 Admission From Non-Accredited Or Non-Equivalent Institutions, 36
 Admission to Candidacy, 48
 Admissions Information and Requirements, 32
 Agricultural Economics Program Requirements, 54
 Agricultural Vocational Education Certificate, Requirements For, 89
 Agriculture and Human Sciences Courses, 140
 Agriculture and Human Sciences, College of, officers of Instruction, 190
 Animal Science Program Requirements, 55
 Application Deadlines, 35
 Application For Graduation, 48
 Applying For Financial Aid, 14
 Architecture Courses, 145
 Architecture, Master of, Degree Program, 57; Accreditation, 58; Program Requirements, 58; Suggested Degree Program Sequences, 58

Architecture, School of, Officers of Instruction, 190
 Army Reserve officers Training Corps, 72
 Army Reserve officers Training Corps, 72; Purpose and Goals, 72; Commissioning Program, 72; Advanced Course Admission Requirements, 73; Commissioning Program Requirements, 73; Suggested Commissioning Requirement Completion Sequence, 73
 Arts & Sciences, College of, officers of Instruction, 191
 Arts and Sciences Courses, 147
 Biology, Department of, 63; Purpose and Goals, 63; Admission Requirements, 63; Advancement to Candidacy, 63
 Biology, Master of Science In, 64
 Board of Regents, 6
 Business Administration, Master of (MBA) Degree Program Requirements, 76; Admission Requirements, 77; Program Requirements, 77
 Business Courses, 155
 Business, College of, 74; Purpose and Goals, 74; Instruction Organization, 74; Academic Performance Standards, 75; Transfer Credit, 75; Advancement to Candidacy, 76; Application For Graduation, 76; Six-Year Time Limit, 76
 Cancellation of Admission, 36
 Candidacy, Admission to, 48
 Chemistry, Department of, 65; Purpose and Goals, 65; Admission Requirements, 65; Advancement to Candidacy, 65
 Chemistry, Master of Science In, 65; Degree Program Requirements, 65
 Class Attendance Policy, 43
 Class Schedule, 39
 College of Agriculture and Human Sciences, 51
 College of Agriculture and Human Sciences, Admission Requirements, 52
 College of Agriculture and Human Sciences, Instruction Organization, 51

College of Agriculture and Human Sciences, Purpose and Goals, 51
 College of Arts and Sciences - Admission Requirements, 62
 College of Arts and Sciences, 62
 College of Business, 74
 College of Education, 81
 College of Engineering, 108
 College of Juvenile Justice and Psychology, 125
 College of Nursing, 136
 Commencement and Conferring of Degrees, 48
 Community Development, Master of, 60; Degree Requirements, 60; Degree Program Requirements, 61
 Computer Information Systems, Master of Science In, 113
 Computer Science, Department of, 113; Purpose and Goals, 113
 Computer Science, Master of Science In, 115
 Concurrent Study For Two Different Degrees, 39
 Correction of Change of Grade, 37
 Counseling, Master of Arts In, Requirements, 101
 Counseling, Master of Science In, Requirements, 101
 Counselor Certificate, Requirements For, 87
 Course Auditing, 39
 Course Changes and Withdrawals, 41
 Course Load, 38
 Courses and Credits, 37
 Courses, 140
 Curriculum and Instruction, Department of, 92; Purpose and Goals, 92; Admission to Program, 92; Transfer Credit, 93; Removal of Incompletes, 93; Academic Performance Standards, 93; Advancement to Candidacy, 94; Certification, 94
 Deadlines, Financial Aid, 15
 Department of Agriculture, Nutrition and Human Ecology - Admission to Program, 54
 Department of Agriculture, Nutrition and Human Ecology - Admission to Candidacy, 54
 Department of Agriculture, Nutrition and

Human Ecology - Instruction Organization, 54
 Department of Agriculture, Nutrition and Human Ecology - Purpose and Goals, 53
 Department of Agriculture, Nutrition and Human Ecology, 53
 Department of Biology, 63
 Department of Chemistry, 65
 Department of Computer Science, 113
 Department of Curriculum and Instruction, 92
 Department of Educational Leadership and Counseling, 96
 Department of Electrical Engineering, 117
 Department of Health and Human Performance, 104
 Department of Languages and Communications, 66
 Department of Mathematics, 68
 Dietetics, Post-Baccalaureate Program In, Requirements, 56
 Disability Services, 21
 Disciplinary Actions, and offences, 44
 Discrimination, Policy Against, 10
 Discrimination, Harassment, and Privacy, Rules and Procedures On, 10
 Dismissal, 45
 Dissertation and thesis Committees, 46
 Distance Education Programs, 139
 Division of Social Work, Behavioral and Political Science, 70
 Doctor of Philosophy in Educational Leadership, 50
 Doctor of Philosophy in Electrical Engineering, 50
 Doctor of Philosophy in Juvenile Justice, 50
 Doctoral Program, Academic Progress Standards, 43
 Education Administration, Master of Science in, 102
 Education Courses, 158
 Education, College of, 81; Purpose and Goals, 81; Instructional Organization, 81; Admission to the Programs, 82

- Education, College of, officers of Instruction, 193
- Education, Master of Science In, Requirements, 94
- Education, Master of, Requirements, 94
- Educational Administration Principal Standard, Requirements For, 85
- Educational Administration, Master of Education In, 101
- Educational Leadership and Counseling, 96; Purpose and Goals, 96; Admission to Program, 97; Transfer Credit, 99; Removal of Incompletes, 99; Academic Performance Standards, 99; Advancement to Candidacy, 100; Course Load, 100; Application For Graduation, 100
- Educational Leadership, Doctor of Philosophy In, 102
- Educational Superintendent Certificate, Requirements For, 86
- Electrical Engineering, Department of, 117; Purpose and Goals, 117
- Electrical Engineering, Doctor of Philosophy in, 119
- Electrical Engineering, Master of Science in, 117
- Elementary Certificate, Requirements For, 84
- Emeritus Faculty and Staff, officers of Instruction, 199
- Engineering Courses, 168
- Engineering, College of, 108; Purpose and Goals, 109; Instructional Organization, 109; Supporting Facilities, 109; Admission to Programs, 110
- Engineering, Master of Science In, 111
- English, Master of Arts In, 66
- Equal Opportunity Policy Statement, 10
- Excessive Absences, 43
- Excused Absences, 43
- Expulsion, 45
- Financial Aid Refund Schedule, 26
- Financial Counselors, 19
- Financial Services, Philosophy of, 13
- General Academic Information, 37
- General Requirements, Graduation, 47
- General University Information, 8
- Grade Point Average, 37
- Grade Reports, 37
- Grading System, 37
- Grading/Class Related Appeals, 40
- Graduate Degree Status, 34
- Graduate Work By Seniors, 35
- Graduation Requirements, 47
- Graduations, Application For, 48
- Health and Counseling Services, 21
- Health and Human Performance, Department of, 104; Purpose and Goals, 104
- Health Concentration, Master of Education in, 107
- Health Concentration, Master of Science in Education In, 106
- History, 8
- Incomplete "I" Grade, 37
- Independent Study Courses, 38
- Information Technology Services, 21
- International Student Information, 34
- Juvenile Forensic Psychology, Master of Science In, 126, 130
- Juvenile Justice and Psychology Courses, 180
- Juvenile Justice and Psychology, College of, 125; Purpose and Goals, 125; Admission Requirements, 128
- Juvenile Justice, College of, officers of Instruction, 197
- Juvenile Justice, Doctor of Philosophy In, 126, 132; Requirements, 134
- Juvenile Justice, Master of Science In, 125, 129
- Languages and Communications, Department of, 66; Purpose and Goals, 66; Admission Requirements, 66
- Learning Resources Specialist Certificate, Requirements For, 88

- Library and Instructional Services, 20
- Master of Architecture and Master of Community Development, 49
- Master of Architecture, Degree Program 57
- Master of Architecture, Program Requirements, 58
- Master of Arts and Master of Science, 49
- Master of Education and Master of Business Administration, 49
- Master of Science in Agriculture Degree Programs, 54
- Master of Science in Computer Science and Master of Science in Computer Information Systems, 49
- Master of Science in Engineering and Master of Science in Electrical Engineering, 49
- Master of Science in Human Sciences Degree Program Requirements, 56
- Master of Science in Juvenile Justice, 50
- Master of Science in Nursing, 50
- Mathematics, Department of, 68; Purpose and Goals, 68; Admission Requirements, 68
- Mathematics, Master of Science, 68; thesis Option, 68; Non-thesis Option, 69
- MBA-MSA Dual Degree, 80
- Military Duty, Active, Withdrawal Because of, 42
- Mission, 10
- MSA-MBA Dual Degree, 80
- Non-Degree (Transient) Status, 34
- Nursing Courses, 187
- Nursing, College of, 136; Program History, 136; Program Objectives, 136; Admission Requirements, 137; Retention and Progression, 137; Grievance Procedures, 138
- Nursing, Master of Science In, 138
- Offences and Disciplinary Actions, 44
- Officers of Instruction For 2003-2004, 190
- Oral Examination, 48
- Ordering Transcripts, 39
- Physical Education Concentration, Master of Education in, 105
- Physical Education Concentration, Master of Science in Education In, 105
- Policy Against Discrimination, 10
- Post-Baccalaureate Program in Dietetics Requirements, 56
- Probation, 44
- Procedure For Requesting "I" Or "IP" As a Final Grade, 38
- Procedures in Academic Dishonesty Cases, 46
- Provisional Certificate Endorsements, Requirements For, 91
- Provisional Graduate Status, 34
- Provisions of This Catalog, I
- Provisions of This Catalog, I
- Quality Assurance Program, 17
- Reading Specialist Certificate, Requirements For, 89
- Re-Admission, 35
- Registration Requirement, Graduation, 48
- Religious Holy Days, Absences, 44
- Right to Privacy, 11
- Rules and Procedures On Discrimination, Harassment, and Privacy, 10
- Safety and Security Services, 22
- Satisfactory Academic Progress Policy, 17
- Scheduling of Courses, 38
- Schedule of Tuition and Fees, 27
- Scholarship office, 20
- School of Architecture - Instructional Organization, 57
- School of Architecture — Purpose and Goals, 57
- School of Architecture, 57
- Schools and Colleges With Graduate Programs, 33
- Second Master's Degree, 35
- Secondary Certificate, Requirements For, 84
- Social Work, Behavioral and Political Science, Division of, 70; Purpose and Goals, 70; Admission Requirements, 70

- Sociology, Master of Arts In, 70; Degree Program Requirements, 71
- Soil Science Program Requirements, 55
- Special Education Educational Diagnostician Certificate, Requirements For, 87
- Special Student Status, 34
- Student Advisement and Supervision, 119
- Student Fees, 27
- Student Financial Services, 22
- Student Services Information, 12
- Suspension, 44
- System Administration, 6

- Teacher Education Certificate and Endorsement Programs, 83
- Tentative Degree Plans, 39
- The Graduate School, 32
- Thesis and Dissertation Committees, 46
- Thesis and Dissertation Project, Approval of Report, 48
- Title IX of the Education Amendment Act of 1972, 10

- Title V of the Rehabilitation Act of 1973, 11
- Transfer of Credit, 37
- Tuition and Fee Exemptions, 31
- Tuition and Fees, 25
- Tuition Waivers, 31
- Types of Admission, 34

- University Courses, 140
- University Policy On Academic Honesty, 44

- Vocational Home Economics Education Certificate, Requirements For, 90
- Voluntary Withdrawal From a Course, 41
- Voluntary Withdrawal From the University, 42

- Withdrawal of Students Ordered to Military Active Duty, 42
- Withdrawal Policy and Procedures, 16; Financial Assistance, 17