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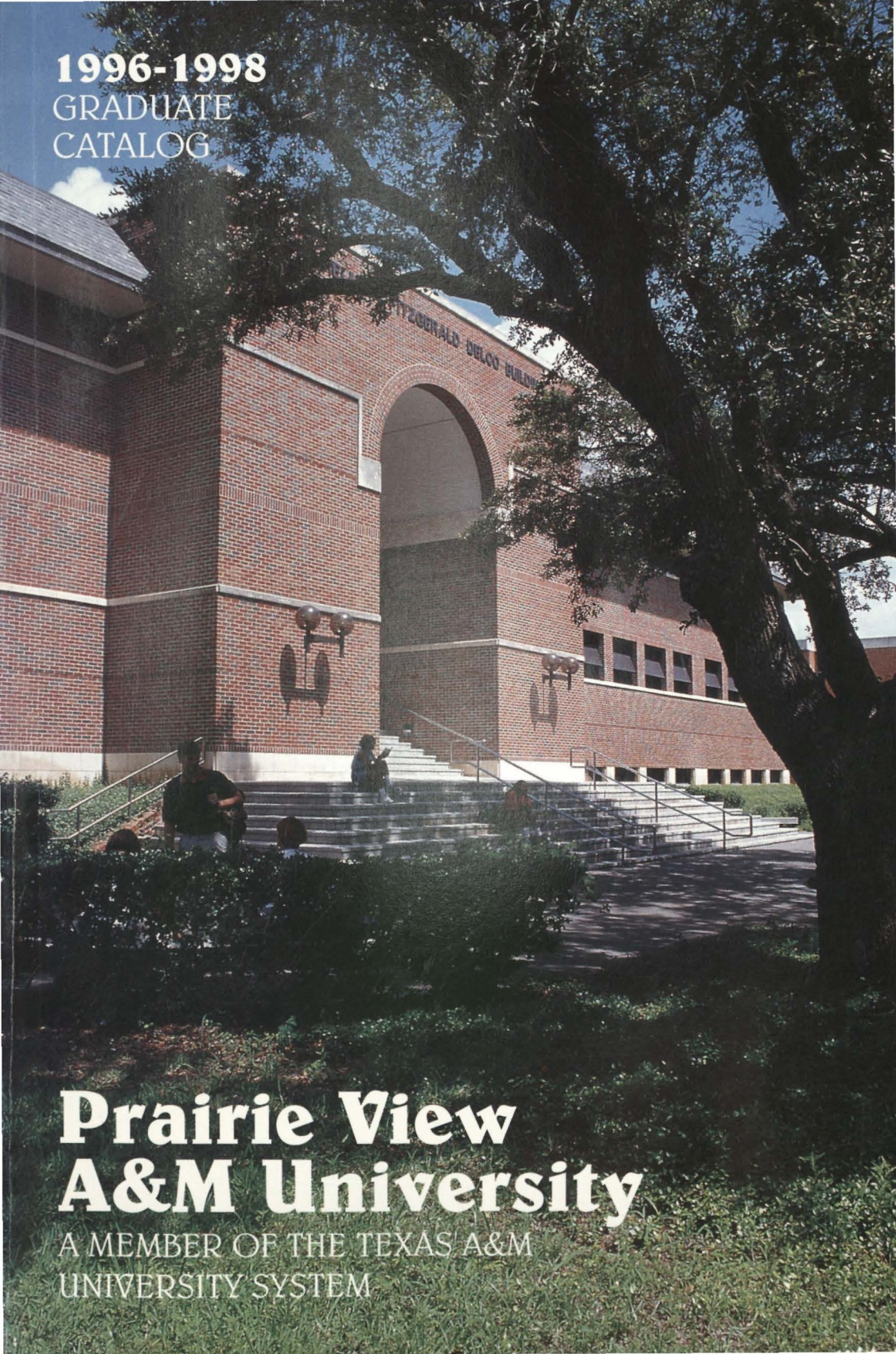
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1996-1998
GRADUATE
CATALOG

Prairie View
A&M University

A MEMBER OF THE TEXAS A&M
UNIVERSITY SYSTEM

University Accreditation

Southern Association of Colleges and Schools, Inc.

Academic Program Accreditations

Accreditation Board for Engineering and Technology
(Engineering and Engineering Technology Programs)

American Association of Family and Consumer Services

Computer Science Accreditation Commission

Council on Social Work Education

National Architectural Accrediting Board

National Council for the Accreditation of Teacher Education

National League for Nursing

Texas Education Agency

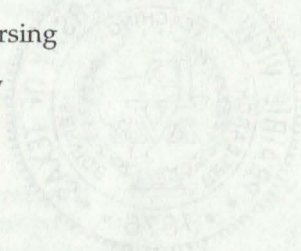


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Academic Year Calendars 1996-98*FALL SEMESTER 1996**

Dining Hall Opens	Saturday, August 17
Residence Halls Open for:	
New Students	Saturday, August 17
Returning Students	Wednesday, August 21
Orientation for New Students	Sunday-Wednesday, August 18-21
Houston Nursing Registration	Monday, August 19
Regular Registration	Thursday-Monday, August 22-26
Registration for Weekend and	
Off-Campus Classes	Saturday, August 24
Instruction Begins	Monday, August 26
Late Registration and Course	
Changes Begin	Tuesday, August 27
Late Registration and Course	
Changes End	Saturday, August 31
Labor Day Holiday	Monday, September 2
Administrative Course Changes	
End	Tuesday, September 10
Withdrawal from Courses without	
Record Ends Automatic Grade of	
"W" Begins/Twelfth Class Day ..	Wednesday, September 11
Application for Fall Graduation	
Ends	Friday, September 20
Withdrawal from Courses with an	
Automatic Grade of "W" Ends.	
After this date student will	
receive "WP" or "WF"	Friday, October 11
Midsemester Examination Period	Thursday-Saturday, October 17-19
Midsemester Grades Due in	
Registrar's Office	Tuesday, October 22
Thanksgiving Holiday	Thursday-Sunday, Nov. 28-Dec. 1
Instruction Resumes	Monday, December 2
Early Registration for Spring	
Semester	Monday-Saturday, December 2-7
Last Day to Withdraw from any	
Course(s)	Thursday, December 5
Final Examination Period	Monday-Saturday, December 9-14
Semester Ends	Saturday, December 14
Final Grade Reports Due in	
Registrar's Office	Monday, December 16
Christmas/New Year's Holiday	
for Continuing Students	Monday-Wednesday, Dec. 16-Jan. 8
University Closed	Monday-Wednesday, Dec. 23-Jan. 1

***ACADEMIC CALENDAR SUBJECT TO CHANGE**

SPRING SEMESTER 1997

Dining Hall Opens	Sunday, January 5
Residence Halls Open for:	
New Students	Sunday, January 5
Returning Students	Wednesday, January 8
Orientation for New Students	Monday-Wednesday, January 6-8
Houston Nursing Registration	Tuesday, January 7
Regular Registration	Thursday-Friday, January 9-10
Registration for Weekend and	
Off-Campus Classes	Saturday, January 11
Instruction Begins	Monday, January 13
Late Registration and Course	
Changes Begin	Wednesday, January 15
Late Registration and Course	
Changes End	Saturday, January 18
Martin Luther King, Jr. (Holiday)	Monday, January 20
Application for Spring Graduation	
Ends	Friday, January 24
Administrative Course Changes	
End	Tuesday, January 28
Withdrawal from Courses without	
Record Ends Automatic Grade of	
"W" Begins/Twelfth Class Day ..	Wednesday, January 29
Withdrawal from Courses with an	
Automatic Grade of "W" Ends.	
After this date student will	
receive "WP" or "WF"	Friday, February 28
Midsemester Examination Period	Thursday-Saturday, March 6-8
Midsemester Grades Due in	
Registrar's Office	Monday, March 10
Spring Recess	Monday-Saturday, March 10-15
Instruction Resumes	Monday, March 17
Honors Convocation	Wednesday, March 26
Easter Holiday	Friday, March 28
Instruction Resumes	Monday, March 31
Early Registration for Summer I & II	
Begins	Monday, April 14
<i>Early Registration for Summer I & II</i>	
<i> and for Fall Semester Graduate</i>	
<i> Students only</i>	<i>Saturday, April 19</i>
Early Registration for Summer I & II	
Ends	Saturday, April 19
Early Registration for the Fall Semester	
Begins	Monday, April 21
Graduation Candidates' Final Examination	
Period	Thursday-Saturday, April 24-26
Last Day to Withdraw from any	
Course(s)	Thursday, April 24
Early Registration for the Fall Semester	
Ends	Friday, April 25
Graduation Candidates' Grades Due	
in Registrar's Office	Monday, April 28
Final Examination Period	Saturday-Friday, May 3-9

ACADEMIC CALENDAR

Semester Ends	Saturday, May 10
Commencement	Saturday, May 10
Final Grade Reports Due in Registrar's Office	Tuesday, May 13

*ACADEMIC CALENDAR SUBJECT TO CHANGE

FIRST SUMMER TERM 1997

Residence Halls Open	Friday, May 23
Regular Registration	Friday-Saturday, May 23-24
Instruction Begins/Late Registration/ Course Changes Begin	Monday, May 26
Late Registration and Course Changes End	Wednesday, May 28
Administrative Course Changes End	Wednesday, May 28
Fourth Class Day	Thursday, May 29
Withdrawal from Courses without Record Ends Automatic Grade of "W" Begins	Thursday, May 29
Application for Summer Graduation Ends	Friday, June 13
Withdrawal from Courses with an Automatic Grade of "W" Ends. After this date student will receive "WP" or "WF"	Wednesday, June 18
Emancipation Day (University Closed)	Thursday, June 19
Orientation for New Students	Friday-Saturday, June 20-21
Last Day to Withdraw from any Course(s)	Tuesday, June 24
Final Examination Period	Thursday-Friday, June 26-27
First Summer Term Ends	Friday, June 27
Final Grade Reports Due in Registrar's Office	Monday, June 30
Independence Day (University Closed)	Friday, July 4
Orientation for New Students	Friday-Saturday, July 11-12

*ACADEMIC CALENDAR SUBJECT TO CHANGE

SECOND SUMMER TERM 1997

Regular Registration	Wednesday-Thursday, July 2-3
Independence Day (University Closed) ..	Friday, July 4
Instruction Begins/Late Registration/ Course Changes Begin	Monday, July 7
Orientation for New Students	Friday-Saturday, July 11-12
Late Registration and Course Changes End	Tuesday, July 8
Administrative Course Changes End	Wednesday, July 9

Withdrawal from Courses without Record Ends Automatic Grade of "W" Begins	Thursday, July 10
Fourth Class Day	Thursday, July 10
Withdrawal from Courses with an Automatic Grade of "W" Ends. After this date student will receive "WP" or "WF"	Wednesday, July 23
Graduation Candidates' Final Examination Period	Monday-Tuesday, August 4-5
Last Day to Withdraw from any Course(s)	Tuesday, August 5
Graduation Candidates' Grades Due in Registrar's Office	Wednesday, August 6
Final Examination Period	Thursday-Friday, August 7-8
Commencement	Saturday, August 9
Final Grade Reports Due in Registrar's Office	Monday, August 11

***ACADEMIC CALENDAR SUBJECT TO CHANGE**

EIGHT WEEK SUMMER TERM 1997

Residence Halls Open	Friday, June 13
Regular Registration	Friday, June 13
Instruction Begins/Late Registration/ Course Changes Begin	Monday, June 16
Application for Summer Graduation Ends	Monday, June 16
Late Registration and Course Changes End	Tuesday, June 17
Administrative Course Changes End	Wednesday, June 18
Withdrawal from Courses without Record Ends Automatic Grade of "W" Begins	Wednesday, June 18
Emancipation Day (University Closed) ..	Thursday, June 19
Fourth Class Day	Friday, June 20
Orientation for New Students	Friday-Saturday, June 20-21
Independence Day (University Closed) .	Friday, July 4
Withdrawal from Courses with an Automatic Grade of "W" Ends. After this date student will receive "WP" or "WF"	Friday, July 11
Orientation for New Students	Friday-Saturday, July 11-12
Last Day to Withdraw from any Course(s)	Tuesday, August 5
Graduation Candidates' Grade Reports Due in Registrar's Office	Wednesday, August 6

ACADEMIC CALENDAR

Final Examination Period	Thursday-Friday, August 7-8
Commencement	Saturday, August 9
Eight Week Final Grade Report Due in Registrar's Office	Monday, August 11
Eight Week Summer Term Ends	Monday, August 11

*ACADEMIC CALENDAR SUBJECT TO CHANGE

TEN WEEK SUMMER TERM 1997

Residence Halls Open	Friday, May 23
Regular Registration	Friday-Saturday, May 23-24
Instruction Begins/Late Registration/ Course Changes Begin	Monday, May 26
Late Registration and Course Changes End	Wednesday, May 28
Administrative Course Changes End	Wednesday, May 28
Fourth Class Day	Thursday, May 29
Withdrawal from Courses without Record Ends Automatic Grade of "W" Begins	Thursday, May 29
Application for Summer Graduation Ends	Friday, June 13
Emancipation Day (University Closed)	Thursday, June 19
Orientation for New Students	Friday-Saturday, June 20-21
Independence Day (University Closed)	Friday, July 4
Orientation for New Students	Friday-Saturday, July 11-12
Withdrawal from Courses with an Automatic Grade of "W" Ends. After this date student will receive "WP" or "WF"	Wednesday, July 16
Graduation Candidates' Final Examination Period	Monday-Tuesday, August 4-5
Last Day to Withdraw from any Course(s)	Tuesday, August 5
Graduation Candidates' Grade Reports Due in Registrar's Office	Wednesday, August 6
Final Examination Period	Thursday-Friday, August 7-8
Commencement	Saturday, August 9
Final Grade Report Due in Registrar's Office	Monday, August 11
Ten Week Summer Term Ends	Monday, August 11

*ACADEMIC CALENDAR SUBJECT TO CHANGE

FALL SEMESTER 1997

Dining Hall Opens	Saturday, August 16
Residence Halls Open for:	
New Students	Saturday, August 16
Returning Students	Wednesday, August 20
Orientation for New Students	Sunday-Wednesday, August 17-20
Houston Nursing Registration	Monday, August 18
Regular Registration	Thursday-Monday, August 21-25
Registration for Weekend and	
Off-Campus Classes	Saturday, August 23
Instruction Begins	Monday, August 25
Late Registration and Course	
Changes Begin	Tuesday, August 26
Late Registration and Course	
Changes End	Saturday, August 30
Labor Day Holiday	Monday, September 1
Administrative Course Changes	
End	Tuesday, September 9
Withdrawal from Courses without	
Record Ends Automatic Grade of	
"W" Begins/Twelfth Class Day	Wednesday, September 10
Application for Fall Graduation	
Ends	Friday, September 19
Withdrawal from Courses with an	
Automatic Grade of "W" Ends.	
After this date student will	
receive "WP" or "WF"	Friday, October 10
Midsemester Examination Period	Thursday-Saturday, October 16-18
Midsemester Grades Due in	
Registrar's Office	Tuesday, October 21
Thanksgiving Holiday	Thursday-Sunday, Nov 27-30
Instruction Resumes	Monday, December 1
Early Registration for Spring	
Semester	Monday-Saturday, December 1-6
Last Day to Withdraw from any	
Course(s)	Thursday, December 4
Final Examination Period	Monday-Saturday, December 8-13
Semester Ends	Saturday, December 13
Final Grade Reports Due in	
Registrar's Office	Monday, December 15
Christmas/New Year's Holiday	
for Continuing Students	Monday-Wednesday, Dec. 15-Jan 7
University Closed	Monday-Wednesday, Dec. 22-Jan 1

***ACADEMIC CALENDAR SUBJECT TO CHANGE**

SPRING SEMESTER 1998

Dining Hall Opens	Sunday, January 4
Residence Halls Open for:	
New Students	Sunday, January 4
Returning Students	Wednesday, January 7
Orientation for New Students	Monday-Wednesday, January 5-7
Houston Nursing Registration	Tuesday, January 6
Registration for New Students	Wednesday, January 7
Regular Registration	Thursday-Friday, January 8-9
Registration for Weekend and	
Off-Campus Classes	Saturday, January 10
Instruction Begins	Monday, January 12
Late Registration and Course	
Changes Begin	Wednesday, January 14
Late Registration and Course	
Changes End	Saturday, January 17
Martin Luther King, Jr. (Holiday)	Monday, January 19
Application for Spring Graduation	
Ends	Friday, January 23
Administrative Course Changes	
End	Tuesday, January 27
Withdrawal from Courses without	
Record Ends Automatic Grade of	
"W" Begins/Twelfth Class Day	Wednesday, January 28
Withdrawal from Courses with an	
Automatic Grade of "W" Ends.	
After this date student will	
receive "WP" or "WF"	Friday, February 27
Midsemester Examination Period	Thursday-Saturday, March 5-7
Midsemester Grades Due in	
Registrar's Office	Monday, March 9
Spring Recess	Monday-Saturday, March 9-14
Instruction Resumes	Monday, March 16
Honors Convocation	Wednesday, March 25
Easter Holiday	Friday, March 27
Instruction Resumes	Monday, March 30
Early Registration for Summer I & II	
Begins	Monday, April 13
<i>Early Registration for Summer I & II</i>	
<i>and for Fall Semester Graduate</i>	
<i>Students only</i>	<i>Saturday, April 18</i>
Early Registration for Summer I & II	
Ends	Saturday, April 18
Early Registration for the Fall Semester	
Begins	Monday, April 20
Graduation Candidates' Final Examination	
Period	Thursday-Saturday, April 23-24
Last Day to Withdraw from any	
Course(s)	Thursday, April 23
Early Registration for the Fall Semester	
Ends	Friday, April 24
Graduation Candidates' Grades Due	
in Registrar's Office	Monday, April 27

Final Examination Period	Saturday-Friday, May 2-8
Semester Ends	Saturday, May 9
Commencement	Saturday, May 9
Final Grade Reports Due in Registrar's Office	Tuesday, May 12

ACADEMIC CALENDAR SUBJECT TO CHANGE*FIRST SUMMER TERM 1998**

Residence Halls Open	Friday, May 22
Regular Registration	Friday-Saturday, May 22-23
Instruction Begins/Late Registration/ Course Changes Begin	Monday, May 25
Late Registration and Course Changes End	Wednesday, May 27
Administrative Course Changes End	Wednesday, May 27
Fourth Class Day	Thursday, May 28
Withdrawal from Courses without Record Ends Automatic Grade of "W" Begins	Thursday, May 28
Application for Summer Graduation Ends	Friday, June 12
Withdrawal from Courses with an Automatic Grade of "W" Ends. After this date student will receive "WP" or "WF"	Wednesday, June 17
Emancipation Day (University Closed)	Thursday, June 19
Orientation for New Students	Friday-Saturday, June 19-20
Last Day to Withdraw from any Course(s)	Tuesday, June 23
Final Examination Period	Thursday-Friday, June 25-26
First Summer Term Ends	Friday, June 26
Final Grade Reports Due in Registrar's Office	Monday, June 29
Independence Day (University Closed)	Friday, July 3
Orientation for New Students	Friday-Saturday, July 10-11

ACADEMIC CALENDAR SUBJECT TO CHANGE*SECOND SUMMER TERM 1998**

Regular Registration	Wednesday-Thursday, July 1-2
Independence Day (University Closed)	Friday, July 3
Instruction Begins/Late Registration/ Course Changes Begin	Monday, July 6
Orientation for New Students	Friday-Saturday, July 10-11
Late Registration and Course Changes End	Tuesday, July 7
Administrative Course Changes End	Wednesday, July 8

ACADEMIC CALENDAR

Withdrawal from Courses without Record Ends	
Automatic Grade of "W" Begins	Thursday, July 9
Fourth Class Day	Thursday, July 9
Withdrawal from Courses with an	
Automatic Grade of "W" Ends	
After this date student will	
receive "WP" or "WF"	Wednesday, July 22
Graduation Candidates' Final Examination	
Period	Monday-Tuesday, August 3-4
Last Day to Withdraw from any	
Course(s)	Tuesday, August 4
Graduation Candidates' Grades Due	
in Registrar's Office	Wednesday, August 5
Final Examination Period	Thursday-Friday, August 6-7
Commencement	Saturday, August 8
Final Grade Reports Due in	
Registrar's Office	Monday, August 10
Second Summer Term Ends	Monday, August 10

*ACADEMIC CALENDAR SUBJECT TO CHANGE

EIGHT WEEK SUMMER TERM 1998

Residence Halls Open	Friday, June 12
Regular Registration	Friday, June 12
Instruction Begins/Late Registration/ Course Changes Begin	Monday, June 15
Application for Summer Graduation Ends	Monday, June 15
Late Registration and Course Changes End	Tuesday, June 16
Administrative Course Changes End	Wednesday, June 17
Withdrawal from Courses without Record Ends	
Automatic Grade of "W" Begins	Wednesday, June 17
Emancipation Day (University Closed) ..	Thursday, June 19
Fourth Class Day	Friday, June 18
Orientation for New Students	Friday-Saturday, June 19-20
Independence Day (University Closed) .	Friday, July 3
Withdrawal from Courses with an	
Automatic Grade of "W" Ends.	
After this date student will	
receive "WP" or "WF"	Friday, July 10
Orientation for New Students	Friday-Saturday, July 10-11
Last Day to Withdraw from any	
Course(s)	Tuesday, August 4
Graduation Candidates' Grade Reports	
Due in Registrar's Office	Wednesday, August 5
Final Examination Period	Thursday-Friday, August 6-7
Commencement	Saturday, August 8

Eight Week Final Grade Report	
Due in Registrar's Office	Monday, August 10
Eight Week Summer Term Ends	Monday, August 10

ACADEMIC CALENDAR SUBJECT TO CHANGE*TEN WEEK SUMMER TERM 1998**

Residence Halls Open	Friday, May 22
Regular Registration	Friday-Saturday, May 22-23
Instruction Begins /Late Registration/ Course Changes Begin	Monday, May 25
Late Registration and Course Changes End	Wednesday, May 27
Administrative Course Changes End	Wednesday, May 27
Fourth Class Day	Thursday, May 28
Withdrawal from Courses without Record Ends Automatic Grade of "W" Begins	Thursday, May 28
Application for Summer Graduation Ends	Friday, June 12
Emancipation Day (University Closed)	Thursday, June 19
Orientation for New Students	Friday-Saturday, June 19-20
Independence Day (University Closed) .	Friday, July 3
Orientation for New Students	Friday-Saturday, July 10-11
Withdrawal from Courses with an Automatic Grade of "W" Ends. After this date student will receive "WP" or "WF"	Wednesday, July 15
Graduation Candidates' Final Examination Period	Monday-Tuesday, August 3-4
Last Day to Withdraw from any Course(s)	Tuesday, August 4
Graduation Candidates' Grade Reports Due in Registrar's Office	Wednesday, August 5
Final Examination Period	Thursday-Friday, August 6-7
Commencement	Saturday, August 8
Final Grade Report Due in Registrar's Office	Monday, August 10
Ten Week Summer Term Ends	Monday, August 10

***ACADEMIC CALENDAR SUBJECT TO CHANGE**

Prairie View A&M University

EXECUTIVE OFFICERS

President	Charles A. Hines
Provost and Vice President for Academic Affairs	E. Joahanne Thomas-Smith
Vice President for Finance and Administration	Willie A. Tempton (Interim)
Vice President for Student Affairs	Vivian Smith (Interim)
Director of Institutional Advancement	Carolyne B. Oliver

ACADEMIC DEANS

Benjamin Banneker Honors College	Jewel L. Prestage
College of Agriculture and Human Sciences	Elizabeth Noel
College of Arts and Sciences	Edward W. Martin
College of Business	Barbara A. P. Jones
College of Education	M. Paul Mehta
College of Engineering and Architecture	John Fuller (Interim)
College of Nursing	Dollie Brathwaite
Graduate School	Willie F. Trotty

The Texas A&M University System

BOARD OF REGENTS

Mary Nan West, Chairman	Batesville
Don Powell, Vice Chairman	Amarillo
Alison Leland Brisco	Houston
Robert H. Allen	Houston
Frederick D. McClure	Dallas
John H. Lindsey	Houston
T. Michael O'Connor	Victoria
M. Guadalupe L. Rangel	Corpus Christi
Royce E. Wisenbaker	Tyler

SYSTEM ADMINISTRATION

Chancellor	Barry B. Thompson
Deputy Chancellor for Finance and Operations	Richard Lindsay
Deputy Chancellor for Academic Institutions and Agencies	Leo Sayavedra
Vice Chancellor and Dean of Engineering	C. Roland Haden
Vice Chancellor for Agriculture and Life Sciences	Edward A. Hiler
Vice Chancellor for Business Services	Tom Kale
Vice Chancellor for Research, Planning and Continuing Education	J. Charles Lee
Vice Chancellor for Facilities Planning and Construction	Wesley E. Peel

General Information

Prairie View A&M University is a comprehensive public institution of higher education. Part 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. A College of Nursing branch facility is located at 6436 Fannin Street in the Texas Medical Center in Houston.

The university offers a broad range of academic programs through eight major divisions:

- The College of Agriculture and Human Sciences
- The College of Arts and Sciences
- The College of Business
- The College of Education
- The College of Engineering & Architecture
- The College of Nursing

Two additional colleges, the Benjamin Banneker Honors College and the Graduate School, offer programs through the colleges listed above.

MISSION AND PURPOSE

The modern mission of Prairie View A&M University was redefined by the people of Texas through an amendment to the Constitution in 1984. Through that amendment, Prairie View A&M University joined the University of Texas at Austin and Texas A&M University as the only constitutionally designated "institutions of the first class."

In support of that designation, in January 1985, the Board of Regents of The Texas A&M University System stated its intention that Prairie View A&M University become "an institution nationally recognized in its areas of education and research." Prairie View A&M University is a land-grant institution by federal statute. It is also a "state-wide special purpose institution" providing special services to students of "diverse ethnic and socioeconomic backgrounds."

Prairie View A&M University is dedicated to fulfilling these missions by achieving excellence in education, research, and service. The university is committed to offering the highest quality programs and instruction for courses or degrees in agriculture, arts and sciences, business, education, engineering, engineering technology, architecture, home economics, and nursing.

While striving to maintain excellent instruction and a strong curriculum, the university understands its role to include the nurture of students' academic development and intellectual curiosity by providing stimulating and healthy physical and cultural environments and services. As a "special purpose" institution, the university recognizes the necessity to develop unique programming to identify and assist talented students. The university is committed to the total development of the person, and, to this end, the university must provide the best possible support services in academic and nonacademic areas. The university is committed to fostering research on campus. Quality research is a critical thread that weaves together a strong faculty, state-of-the-art facilities, learning opportunities for students, and relevant service to the community beyond the campus.

HISTORY

Prairie View A&M University has an uncommon and intriguing political and cultural history. It is a study in survival under difficult and changing circumstances chronicling the struggle of blacks in Texas for opportunities in higher education. We have included this extended treatment of that history so that our young people can more fully appreciate the changes brought about by those years of struggle.

Prairie View A&M University is the second oldest institution of higher education in the state of Texas. It had its beginnings in the Texas Constitution of 1876, which, in separate articles, established an "agricultural and mechanical college" and pledged that "separate schools shall be provided for the white and colored children, and impartial provisions shall be made for both." As a consequence of these constitutional provisions, the Fifteenth Legislature, on August 14, 1876, 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.

A three-man commission appointed to build the new college used the \$20,000 appropriated for this purpose to purchase the Alta Vista Plantation located in Waller County to the east of Hempstead. The Honorable Edwin Waller managed the property at a salary of \$100 per month. His representative, Ashbel Smith, turned the affairs of the school over to the Board of Directors of Texas A&M College in 1878. The board, authorized to appoint a principal teacher to administer the college under the direction of the president of Texas A&M College, selected Mr. L. W. Minor, who served in that capacity for only one year. On March 11, 1878, eight young Negro men became the first of their race to enroll in a state-supported college in Texas. Among the instructors were two brothers, E. H. and L. C. Anderson, who became the second and third principals of the young and struggling college.

E.H. Anderson became principal in 1879, when the enrollment grew to 60 students. The A&M College Board of Directors, meeting in Hempstead on August 28 of that year, authorized the teaching of 13 subjects on the elementary and secondary levels.

L.C. Anderson became principal of Prairie View A&M in 1885 and served for 12 years. He was also the founder of the dynamic and politically active Colored Teachers Association of Texas. He managed a college budget of \$39,000 and a staff of 11 instructors in what was essentially a normal school program. The grey stone administration building was erected in 1890, and Prairie View became embroiled in an intense and sometimes bitter legislative and political debate over the status and future of the college. The Twentieth Legislature agreed to the attachment of an Agricultural and Mechanical Department to the Normal School, and the Hatch Act brought the college a branch of the Experiment Station. Other facilities erected included an academic hall, six cottages for teachers, a brick mechanics shop, and artesian wells.

In 1897, Edward L. Blackshear was elected principal of the college, and he served until 1915. During his tenure, the curriculum and the physical plant grew significantly. In 1889, the Twenty-Sixth Legislature changed the name of the school to Prairie View State Normal and Industrial College, and the new name reflected the expansion of the curriculum. The Twenty-Seventh Legislature, in 1901, authorized the school to offer a four-year course of study that included the Academy and Normal School in four divisions: education, agriculture,

home economics and mechanical arts. A diploma and bachelor of science degree were given upon completion of any curriculum. The first three degrees were granted in 1903. New additions to the physical plant during this period included two dormitories for men, Foster Hall and Luckie Hall (1909), Crawford Hall for women (1912), and a combination auditorium/dining hall (1911).

I.M. Terrell, the fifth principal, held the position during the war years of 1915-1918. Despite the world conflict, the school plant expanded significantly. A household arts building, a power and ice plant, and a laundry building were erected in 1916. Spence Hall was erected in 1918 to house the Division of Agriculture. The close of World War I brought the first recognized Reserve Officers Training Corps to the campus. The Cooperative Extension Service was also launched at this time.

The sixth principal of Prairie View was J. G. Osborne, whose tenure lasted from 1918 to 1925. The nursing division was established in 1918, and six buildings were added to the campus in 1924 and 1925: a veterinary hospital, science building, college exchange, elementary training school, home economics practice cottage, and music conservatory. The four-year senior college program was begun in 1919 and included training in vocational home economics, vocational agriculture, liberal arts, and mechanical arts.

W.R. Banks became principal in 1926 and served until his retirement in August of 1947, when he was named principal emeritus. During this period, the physical plant doubled in size with the addition of a dining hall, a hospital, three apartment buildings for male teachers, three dormitories for women, a greenhouse, an incubator house, a classroom building, an NYA resident center, a library, and more than 60 cottages for faculty families.

The Senior Academy was discontinued in 1930 and the Division of Education was renamed the College of Arts and Sciences with a major department in teacher-training. The Division of Graduate Study was organized in 1937, offering Master of Science degrees in agricultural economics, rural education, agricultural education, school administration and supervision, and rural sociology.

The name Prairie View Normal and Industrial College was changed by the Forty-Ninth Legislature in 1945 to Prairie View University, and the school was authorized to offer, "as the need arises," all courses offered at the University of Texas.

Dr. Edward B. Evans became the eighth principal on September 1, 1947. That same year, the Fiftieth Legislature changed the name of the institution to Prairie View Agricultural and Mechanical College of Texas. The act provided that "courses be offered in agriculture, the mechanic 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."

In March of 1947, the Old Administration Building was destroyed by fire. The Fiftieth Legislature, then in session, made an emergency appropriation of \$300,000 for the erection of the present administration building, which was completed in March of 1949.

The title of principal of the college was changed to dean by the Board of Directors effective during the 1947-48 school year. However, on September 1, 1948, the title was changed to president, and on December 3, 1948, Dr. E. B. Evans, the eighth principal, was inaugurated as the first president of Prairie View Agricultural and Mechanical College of Texas. The divisions of the college became schools, and the directors of the respective schools became deans.

A new women's dormitory completed in September of 1950 was named for the late Dean of Women, Miss M. E. Suarez. A similar building for men, completed in 1952, was named for former teacher J. M. Alexander. The E.B. Evans Animal Industries Building was completed in 1951, and the Gibb Gilchrist Engineering Building was completed in 1952. Two additional dormitories, one for men and one for women, were completed in 1955, along with a dairy barn and utility warehouses. A home economics building, May Hall, was added in 1957, and the old home arts building was converted to a modern music building. The Memorial Student Center and Harrington Science Building were completed in 1960 and 1961, respectively, followed by the health and physical education building in 1964 and two air-conditioned dormitories in 1965.

Prairie View A&M was accepted for membership in the Southern Association of Colleges and Schools in December of 1958 and later received full accreditation by the National Council for Accreditation of Teacher Education.

Following the retirement of Dr. E. B. Evans as president emeritus in 1966, Dr. J. M. Drew was appointed to the position. Dr. Drew became ill shortly after taking office and was replaced by Dr. Evans who served briefly as acting president.

Dr. Alvin I. Thomas, elected as the third president of Prairie View Agricultural and Mechanical College in November 1966, introduced the residential college concept.

As Prairie View A&M's centennial approached, the Board of Regents of the newly-titled Texas A&M University System, at the request of President Thomas, appointed 79 persons to a Centennial Planning Council and charged them with formulating a new master plan for Prairie View A&M for the 1970s. After 16 months of serious study, the council's recommendations were published in a document entitled *A Developmental Plan, 1970-80, Prairie View A&M College of Texas*.

As an outgrowth of this plan and recommendations to the state legislature, the name of the institution was again changed to Prairie View A&M University, and its status as an independent unit of the Texas A&M University System was reconfirmed. The System Board of Regents, in the fall of 1970, sold in excess of \$13 million in bonds for the construction of two new residence halls and a dining facility. The residence halls, accommodating 1,500 students, were opened for occupancy in August of 1972. The dining facility, now known as Alumni Hall, was opened in the second semester of the 1972-73 academic year. Other major construction completed during the following decade included the fire and security building, Farrell Hall Laundry, Burleson-Ware ROTC Building, Hobart Taylor Hall, the engineering building, and the Owens-Franklin Health Center. In 1980-81, the state of Texas purchased and renovated a building in the Texas Medical Center complex to be used as clinical nursing center for the College of Nursing. In 1981-82, broadcasting began from newly constructed facilities of FCC-approved KPVI-FM at Prairie View, an instructional laboratory of the Department of Communications.

In 1981, the Texas legislature officially recognized Prairie View as not only a general purpose university but also as "special purpose institution" providing services to students of "diverse ethnic and socioeconomic backgrounds." The physical plant, valued at approximately \$12 million in 1966, was valued at more than \$50 million at this time. Curricula offerings, research, and Cooperative Extension activities had been greatly enhanced. Upon Dr. Thomas' resignation in June 1982, Dr. Ivory Nelson took office as acting president.

On January 27, 1983, Dr. Percy A. Pierre was appointed the fourth president of Prairie View A&M University. Two new public policy imperatives were extant at that time: The Texas A&M University System's commitment to academic excellence, and the state's commitment to the enhancement of Prairie View A&M University to spur greater integration. These two imperatives resulted in the Target 2000 Report published in May of 1983 and the Texas Plan published in August of 1983. They outlined short-term and long-term courses of development that have and will significantly change Prairie View A&M University. The goals outlined were given credibility in November of 1984 by an amendment to the State Constitution that names Prairie View A&M University as an "institution of the first class" and gives it an equitable share of the proceeds of the Permanent University Fund. For the first time in the 106-year history of the university, the state of Texas agreed to fund Prairie View on the same basis as Texas A&M and the University of Texas.

New educational directions were taken in the pursuit of academic excellence through the establishment of the new College of Engineering Technology and the Benjamin Banneker Honors College. The College of Engineering Technology developed out of the old College of Industrial Education through the elimination of most vocational and industrial technology programs; the upgrading of existing programs; and the introduction of three new programs in computer engineering technology and electrical and mechanical engineering technology. The Benjamin Banneker Honors College serves the university by providing honors level programs.

In a move to increase efficiency and improve educational effectiveness, the university merged the colleges of Agriculture and Home Economics with the College of Engineering Technology, which was renamed the College of Applied Sciences and Engineering Technology, beginning September 1987. The colleges of Agriculture and Home Economics became departments in the new college. The Computer Science program was transferred from the Department of Mathematics and Computer Science to the Department of Engineering Technology.

The physical development of the campus proceeded according to the Master Plan of August 1984, which sought to enhance the historic part of the campus through new building construction, renovations, and exterior construction and landscaping. Among new buildings constructed were the five story John B. Coleman Library, the Agricultural Research Building, the Chemical Engineering Laboratory Building, the Education and Classroom Building, the Engineering Technology Building, the Johnson-Phillip All Faiths Chapel, the Central Receiving and Warehouse buildings, the new Gymnasium, and the Intramural Athletic Complex. Buildings renovated include the Field House, the Home Economics Building, the Harrington Science Building, the President's House, the Physical Plant Building, the Power Plant, and the Gilchrist Engineering Building. Exterior construction converted the campus to a pedestrian campus with the construction of several major malls and broad walkways between them.

Since 1983, PVAMU's enrollment increased more than 25 percent, and the university's endowment increased from \$300,000 to over \$3 million.

From June 1, 1989 to December 18, 1989, Dr. Milton R. Bryant served as Interim President.

GENERAL INFORMATION

On December 15, 1989, Julius W. Becton, Jr. LTG. (Ret.) was appointed the fifth president of Prairie View A&M University, his alma mater. With nearly 40 years of active commissioned service in the U.S. Army, President Becton was the first graduate of Prairie View A&M University to attain star rank in the military.

In the first year of his administration, President Becton took steps to improve fiscal operations. In addition, he oversaw the reaffirmation team visit by the Southern Association of Colleges and Schools, and the College of Nursing received a full eight-year accreditation from the National League of Nursing.

On August 31, 1994 General Becton's retirement as President Emeritus with the distinction of Honorary Doctorate approved by the Board of Regents, Texas A&M University System, became effective. Prior to the arrival of Dr. Charles A. Hines, Dr. Harold S. Bonner served as acting president. In October, 1994, Dr. Charles A. Hines was appointed sixth president of Prairie View A&M University.

Directory of Frequently Called Offices

When seeking information about the University, please visit, call, or write the office most closely associated with the subject of your concern or inquiry. Calls and letters intended for offices other than those contacted will be forwarded.

President's Office
Administration Bldg., Ste. 202
Tel. (409) 857-2111

Office of Disabled Student Services
Evans Hall, Rm. 317
(409) 857-2693

Academic Affairs
Administration Bldg., Ste. 212
Tel. (409) 857-2314

Records (Registrar)
Evans Hall, Rm. 110
Tel. (409) 857-4725; 857-2618

Admissions (Director)
Anderson Hall, Rm. 107
Tel. (409) 857-2618; 857-2626

Safety and Security
Central Receiving Bldg., Rm. 105
Tel. (409) 857-4313

Counseling Services
Owens-Franklin Health Center, Rm. 031
Tel. (409) 857-2217

Student Activities
Memorial Student Center, Rm. 116
Tel. (409) 857-4326

Financial Aid
Evans Hall, Rm. 201
Tel. (409) 857-2423; 857-2424

Student Life
Evans Hall, Rm. 317
Tel. (409) 857-2620

Graduate Admissions
L. W. Minor Memorial Complex,
Rm. 205
Tel. (409) 857-2315

Texas Academic Skills Program
(TASP)
W. R. Banks, Rm. 230
Tel. (409) 857-4611

Housing
Evans Hall, Rm. 320
Tel. (409) 857-2926

Treasury Service (Bursar)
W. R. Banks, Rm. 124
Tel. (409) 857-2133

International Student Affairs
Evans Hall, Rm. 110
Tel. (409) 857-2626

Veterans Affairs
Evans Hall, Rm. 117
Tel. (409) 857-2618

NO WEAPONS POLICY

Firearms, fireworks, and explosives are prohibited on university property. Violators will be dismissed from the university. **This applies to concealed handguns** license holders also, under the Texas Penal Code, Sec. 46.03.

Student Services

CAMPUS LIFE

Prairie View A&M University aims to aid students not only in their academic growth, but also in their aesthetic, physical, spiritual, interpersonal and cultural development. The staff of the Student Affairs Division of the University and other campus service units are committed to enriching the university environment to enable students to become mature and responsible members of society who will engage in life-long self-improvement.

Administrative responsibility for the organization, direction, and governance of student life at Prairie View A&M University is assigned to the Division of Student Affairs. Headed by the vice-president for student affairs, the division consists of the offices of Financial Aid, Counseling and Career Development, School Relations (Pre-College Programs), Student Activities, Student Life (Disciplinary Management, Programming and Religious Activities) and Residential Life.

At Prairie View A&M University students work closely with the Student Affairs professionals to create a supportive climate for independent thinking and group cooperation. A notable feature of the campus is the easy access to administrators, faculty and staff who are sensitive to student needs and can respond in a personal way. The residential character of the campus also brings students closer together and promotes a strong university spirit of camaraderie.

TUITION AND FEES

Registration and Student Fees

Registration at the university consists of enrolling in classes and paying required fees. Registration cannot be completed and no student can be formally enrolled in a class until all required fees (including prior balances) are paid to the Fiscal Office.

Explanation of Fees

Fee amounts are subject to change without notice. For questions about fees, please contact the Fiscal Office. The amounts listed below are currently in effect for Fall 1996.

Tuition. Texas resident students pay \$36.00 per semester credit hour but not less than \$120.00 per academic semester and not less than \$60.00 per five week summer term. Non-Texas residents pay \$246.00 per semester credit hour.

Lab. Students who register for lab courses are required to pay \$5.00 to \$12.00 per lab course to help defray the cost for lab equipment, supplies, etc.

Student Services. All students attending the university are required to pay \$14.00 per credit hour not to exceed \$150.00 per regular semester or summer term. This fee assists the university in providing recreational activities, intercollegiate athletics, artists and lecturers, cultural entertainment, debating and oratorical activities, student publications, student government services, and other student activities and services authorized by the Board of Regents.

General Use. All students are required to pay \$20.00 per credit hour for retirement of indebtedness, maintenance, and operation of certain university buildings and facilities.

Computer Access. All students are required to pay \$3.00 per credit hour to defray the cost of establishing and maintaining a centralized academic computing laboratory for all students. The laboratory will provide word processing, spread sheet and microcomputer-based data base capabilities. Services will include typical laboratory activities (preliminary training, assistance, supplies, etc.)

Student Health. All students are required to pay \$50.00 per regular semester and \$25.00 per summer term. This fee entitles the student to receive four (4) office visits during the Fall and Spring semesters, and two (2) office visits per each summer term. This fee provides a discount on lab, x-ray and pharmacy service.

Registration. All students are required to pay a nonrefundable fee of \$6.00 per semester and each summer term registered for. The Registration Fee provides an equitable means of recovering costs incurred by the Office of Admissions & Records.

International Education. All students are required to pay \$1.00 per semester and each summer term. This fee is used to assist students participating in international student exchange or study programs.

Re-Registration. During the regular and late registration periods, students who are dropped from registration for failure to pay the full amount of fees due (first installment) will be required to pay the full amount of fees due in advance of re-registration.

Advance fee payment to re-register does not guarantee availability of previously selected classes or class sections.

Room Rent. All students who live in university residence halls must pay the rent amount charged for the dormitory occupied as described below:

DORMS	FALL/SPRING	SUMMER I/II
Banks	\$ 830.00	\$337.00
Drew	\$ 830.00	\$337.00
Fuller	\$ 830.00	\$337.00
Holley	\$ 830.00	\$337.00
Suarez	\$ 829.00	\$363.00
Collins	\$ 829.00	\$363.00
Alexander	\$ 829.00	\$363.00
Buchanan	\$ 829.00	\$337.00
L. O. Evans	\$ 845.00	\$386.00
Univ. Village-Kitchenette	\$1,150.00	\$652.00
Univ. Village-Full Kitchen	\$1,225.00	\$694.00

Board. All students who live in the University residence halls are required to participate on the board plan, and must select either the cafeteria meals plan B (3 meals a day, 7 days a week) at a cost of \$925.00 per regular semester or the cafeteria meal plan C (3 meals a day, Monday-Friday) at a cost of \$881.00 per regular semester. Cafeteria meals during the summer cost \$374.00 per summer term. All students also have an option to purchase Flex points. Flex points can be used in either the dining hall or cash-sale operations. This service allows individuals or departments to make deposits onto a card account and utilize the services of the Dining Hall, Underground, Purple P, Laundry and Convenience Store throughout the semester. Books and other supplies can be purchased from the University's Exchange through use of this service, however this service is only available in the Exchange through the twelfth class day.

By using the convenience afforded by the PV Express Card (Flex Plan), students will reduce the hazard of carrying large amounts of cash.

Laundry. Students residing in university residence halls must participate in the university's Laundry Plan, at a cost of \$55.95 per regular semester and \$21.44 per summer term which provides a predetermined amount of flex points each semester and summer term. Students will have the option of using their laundry flex points to pay for laundered and/or dry cleaned items or at the central laundromat.

Identification Card. Students will be assessed an I.D. Card services fee of \$5.00 per semester. The Prairie View I.D. Card is designed to be issued when a student initially enrolls in the university. This same I.D. is revalidated each semester to encode the services that each student is entitled to receive. Failure to have the I.D. revalidated may result in services not being rendered, i.e. meals library, laundry, health care.

Sales Tax. Students who participate in the food and laundry service plan are required to pay state sales tax.

Non Refundable Fees

1. Application	\$10 per form
2. Auditing	\$10 per course
3. Returned Check	\$25 per check
4. Certificate	\$ 6
5. Diploma, Graduate	\$25
6. Diploma, Undergraduate	\$15
7. Electronic Financial Aid Processing	\$20
8. I.D. Card	\$ 5 per semester
	\$ 5 per summer term
	\$10 duplicate*
9. Installment Carrying Fee	\$36
10. Installment Late Fee	\$25
11. Late Admission Processing	\$15
12. Late Registration	\$25 per semester
	\$12.50 per summer term
13. Reinstatement	\$50
14. Registration in Absentia	\$15 resident
	\$17.50 nonresident
15. Transcript (First one is free)	\$ 5
16. Vehicle registration	\$15 per semester

*If the lost I.D. Card is found prior to the student taking the picture for the duplicate card, the \$10 fee will be refunded.

REFUNDABLE DEPOSITS

1. General Property \$10
Covers possible damage to university property or other student indebtedness. Refunded upon request within six months after graduation or permanent withdrawal from the university and if there are no charges against the student. The General Property deposit will be forfeited if not claimed within four years after graduation or permanent withdrawal from the university.
2. Room Damage \$100
Covers possible damage to university dormitory property. Refunded upon request within six months after graduation or permanent withdrawal from the university and if there are no charges against the student.
3. Room Reservation \$100
Covers reservation for dormitory room. The room reservation deposit will be applied to the student's room rent charge. Deposit will be refunded in full if the reservation is canceled by July 15 for the Fall Semester, December 15 for the Spring Semester, May 10 for the First Summer Session or June 20 for the Second Summer Session. No refunds will be made if room reservations are canceled after these dates.

Total Cost of Attendance

The following are the estimated total fees for on-campus and off-campus students for selected hours enrolled, based upon the assumptions noted. The purpose of this fee structure is to provide an approximate cost of attending the university.

Fee Structure:**Fall or Spring Semester**

Resident Status	Hours	On-Campus* Total Fees	Off-Campus Total Fees
RG	9	2,637.06	755.00
N/RG	9	4,527.06	2,645.00
RG	10	2,710.06	828.00
N/RG	10	4,810.06	2,928.00

RG	11	2,779.06	897.00
N/RG	11	5,089.06	3,207.00
RG	12	2,838.06	956.00
N/RG	12	5,358.06	3,476.00
RG	13	2,897.06	1,015.00
N/RG	13	5,627.06	3,745.00
RG	14	2,956.06	1,074.00
N/RG	14	5,896.06	4,014.00
RG	15	3,015.06	1,133.00
N/RG	15	6,165.06	4,283.00

Summer Term

RG	3	1,017.12	256.00
N/RG	3	1,647.12	886.00
RG	4	1,090.12	329.00
N/RG	4	1,930.12	1,169.00
RG	5	1,163.12	402.00
N/RG	5	2,213.12	1,452.00
RG	6	1,236.12	475.00
N/RG	6	2,496.12	1,735.00

*Rates for Banks, Drew, Fuller, or Holley Hall and 21 Meal Plan

RG = Resident Graduate

N/RG = Non-Resident Graduate

STUDENT SERVICES**Statutory/Board of Regents Provisions**

Students may qualify for exemption from the payment of tuition and certain fees and charges based on the following exemption criteria:

EXEMPTION**EXEMPTED FEES****1. Orphans of Military Personnel**

Citizens of Texas who are children of certain members of the armed forces of the United States or Texas National Guard who were killed or died in the line of duty.

Tuition-Resident
Lab
General Use
Computer Access

- | | |
|---|--|
| <p>2. Veterans of Texas</p> <p>Persons who have resided in Texas for at least the period 12 months before the date of registration and are veterans of certain wars who were citizens of Texas at the time they entered service.</p> | <p>Tuition-Resident
Lab
General Use
Computer Access</p> |
| <p>3. Children of Disabled Firemen & Peace Officers</p> <p>Eligible children of firemen, peace officer employees of the Department of Corrections and Game Wardens, disabled or killed the line of duty.</p> | <p>Tuition-Resident
Lab
General Use
Student Health
Student Service
Computer Access</p> |
| <p>4. Blind and Deaf Students</p> <p>A person who is a "blind disabled individual" or a person whose sense of hearing is nonfunctional after all necessary medical treatment.</p> | <p>Tuition-Resident
Lab
General Use
Student Health
Student Service
Computer Access</p> |
| <p>5. Students from other Nations of The American Hemisphere</p> <p>Students who are citizens of other nations of the American Hemisphere based on allocations by the Texas Higher Education Coordinating Board.</p> | <p>Tuition-Resident
Lab
General Use
Student Health
Student Service
Computer Access</p> |
| <p>6. Children of Prisoners of War or Persons Missing in Action</p> <p>The dependent child of any person who is a domiciliary of Texas on active duty as a member of the Armed Forces of the United States, and who at the time of the registration is classified by the Department of Defense as a prisoner of War or as missing in action.</p> | <p>Tuition-Resident
Lab
General Use
Student Health
Student Service
Computer Access</p> |

Note:

Students concurrently enrolled in more than one public institution of higher education will pay tuition and student service fees as specified in the Texas Education Code 54.062 and 55.503.

Fee Payment Plans

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

1. Full payment of tuition and fees in advance of the beginning of the semester.
2. One-half payment of tuition and fees in advance of the beginning of the semester, one-quarter payment prior to the start of the sixth class week, and the final one-quarter payment before the beginning of the eleventh class week.

Unpaid Obligations (Administrative Withdrawal)

Students who do not fulfill their financial obligations when due are subject to having privileges suspended through Administrative Withdrawal. Administrative Withdrawal will result in transcripts being withheld and may result in the loss of room and board privileges and loss of classroom admittance for the semester. Administrative Withdrawal does not eliminate outstanding debt(s) including tuition, fees, room and board, or other incidental charges. A student who has been Administratively Withdrawn can have privileges restored upon payment of a reinstatement fee and all outstanding charges. Administratively withdrawn students will be responsible for all debts, including tuition, fees, room and board, and other incidental charges for the full semester unless they officially withdraw from the university.

Returned Check Fee

All checks accepted by the university must clear the bank on which they are drawn. Students who write checks that do not clear the bank will be required to pay the returned check fee.

Fee Refunds

Fee refunds will be given for courses dropped and for withdrawal from the university within the time constraints described 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 semester, or within the first four days of summer term, provided the student remains enrolled at the institution for that semester or term. 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 Office of Admissions & Records.

Students who have questions or concerns regarding the calculations of their refund may appeal by letter to the following individuals:

Financial Aid Recipients

Director of Student Financial Aid
 Prairie View A&M University
 P.O. Box 2967
 Prairie View, Texas 77446-2967

Non-Financial Aid Recipients

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

Students and parents should state in their appeal letter the portion of the refund which is being questioned. Each appeal will be reviewed by the respective office in charge of calculating the refund. Please allow thirty (30) days for response.

Refund Schedule (Voluntary Withdrawal by Continuing Students)

The following schedule applies to tuition, student service fees, general use fee, laboratory fees, student health fee and computer access fee:

Fall or Spring Semester

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

Five- or six-week Summer Term

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

Students residing in dorms or utilizing meal or laundry services prior to 1st day of class will be billed for services rendered if they withdraw prior to the 1st day of class.

Residence Hall Rent. If a student withdraws, refunds of residence hall rent will not be made unless the room which is vacated is re-rented within 10 days to a student who has been residing in other than University-owned property. If the room is re-rented within this 10-day period to a student who was not residing in University-owned property, refund will be made in accordance with the above schedule.

In those instances in which the institution offers the student the option of paying residence hall rent on an installment basis or in full, the following will apply to refunds of residence hall rent at that institution without regard to provisions for re-renting of the room: (1) If the student is paying on an installment

basis and withdraws after classes begin, a refund of residence hall rent will not be made; (2) If a student pays in full and withdraws after classes begin, a refund will be made of the unused residence hall rent paid in excess of the current installment period.

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

Food Service Refund. 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.

Refund Schedule (Withdrawal by First Time Students who are Title IV recipients)

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

Fall or Spring Semester

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

Summer Term

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

Note: 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 (Financial Aid).

The university will attempt to include any material changes to these schedules in the Class Schedules at the beginning of each semester. If you have questions regarding refunds, please contact the Financial Aid Office.

FINANCIAL AID PROGRAMS

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, character, and financial need. Financial aid is designed to help cover 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.

Prairie View A&M University provides assistance through the following programs:

Other Special Scholarships

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. Awards are made to both undergraduate and graduate students.

Applications for other special scholarships may be obtained from the Office of Admissions and Records, P.O. Box 2610, Prairie View A&M University, Prairie View, Texas 77446-2610.

UNSUBSIDIZED LOANS

Available to borrowers who are not eligible for Stafford loans and/or those who need funds in addition to their Stafford loans.

Borrower Eligibility

- a. Graduate or professional students and independent graduates who
 - * are citizens or eligible noncitizens
 - * are enrolled or accepted for enrollment at least half time in an eligible school or a study abroad program approved by an eligible home institution,
 - * have had their Stafford loan eligibility determined,
 - * are making satisfactory progress,
 - * have no unresolved defaults in the following federal programs: Perkins (formerly NDSL), FISL, Stafford (or GSL), SLS (or ALAS), PLUS, Direct, Consolidation or refinanced loans, and owe no refunds on Pell, SEOG, or SSIG grants,
 - * are registered with the U.S. Selective Service System, and
 - * certify their intent to use the loan proceeds for education purposed.

Financial Eligibility

Determined by Prairie View A&M University based on an analysis of student "need" that includes estimated cost of education less other financial aid.

Loans

The university offers long-term loan programs. Long-term loan programs include Perkins Student Loans, Stafford Student Loans, and Direct Loans. The total amount a student may borrow for undergraduate studies is \$23,000. For graduate studies, the total amount is \$138,500, depending on the guidelines of the particular program. Long-term loan repayment begins six months after the student graduates, withdraws from the university, or ceases to carry at least a half-time course load during a fall or spring semester. Repayment of the loan and its interest may be extended over a 10-year period.

Inquiries about loan programs should be directed to the Office of Financial Aid, Prairie View A&M University, P.O. Box 2967, Prairie View, Texas 77446-2967.

Student Employment

Need-based Federal Work-Study Program funds are provided by the U.S. Department of Education and Prairie View A&M University for on-campus employment. Graduate students who are enrolled at least half-time, are citizens or permanent residents of the United States, and are in need of earnings from such employment to pursue a course of study are eligible to apply. Applicants must submit a Financial Aid Form and a Prairie View A&M University Application for Financial Assistance. Graduate Work-Study students may be employed during the semester for an average of 25 hours a week and up to 40 hours a week.

The university also provides limited funds to employ students in a nonneed-based work-study program. To qualify, students must be enrolled for at least six credit hours per semester and meet the university's satisfactory academic progress standards.

Students interested in employment at the university should contact the Student Employment Administrator, Office of Financial Aid, P.O. Box 2967, Prairie View, Texas 77446-2967.

Steps to Follow in Securing Aid:

Success in securing federal financial aid depends upon your doing the following things before the April 1 deadline date:

Be admitted to the Graduate School if you are a transfer, or returning graduate student.

Transfer graduate students must have each of the schools previously attended (postsecondary) send certified copies of financial aid and academic transcripts to Prairie View A&M University's Office of Student Financial Aid. Aid cannot be granted until the Financial Aid Transcript has been received.

File the Federal Government's "Free Application For Federal Student Aid" (FAFSA) with the Federal Processor.

File the supporting documents required to verify the accuracy of the data you have submitted for aid. File the Pell Grant Student Aid Report to include 1040 or 1040Z Form.

At the latest, all of these must be done at least eight weeks prior to the date that you plan to enroll to ensure that financial aid funds will be available for your use at the time of registration and fee payment.

MAJOR FACILITIES AND SERVICES

Department of Career Planning and Outreach

The Department of Career Planning and outreach maintains the unique role of providing programs and services that assist both graduating and continuing students in obtaining professional employment. The Department provides each student, directly or through a combination of Recruitment, Cooperative Education, Summer Intern Employment, Academic advancement and/or Out-reaches Services, career opportunities in a variety of fields, such as business, education, industry, social sciences and government. This Department, in collaboration with each university department and college, works to inform students about available career opportunities. In addition, the Department advises students on all aspects of career preparation and the job search process.

Career Assistance

The Department of Career Planning and Outreach operates a **Career Center** which hosts several hundred recruiters annually. The Center's primary responsibility is to establish relationships with employment recruiters throughout the United States and abroad. As a result, over 5000 student interviews are conducted annually. Each year a Fall and Spring Career Festival is sponsored with in excess of 400 corporate, organizational, and governmental agencies represented and actively participating in these events.

The Career Center also provides career assistance services for former students and graduates seeking information on graduate schools and various fellows programs. To enhance employment opportunities, the center works to inform business, industry, and governmental agencies of new academic programs, fields of study and areas of need to encourage corporate support through scholarships, grants, endowments and specialized equipment. The center strengthens its placement relationships by direct involvement in professional recruiting, industrial relations, personnel and professional associations.

The center supports the placement process by providing a comprehensive resource library with current job announcements, corporate brochures, and recruiting information. In addition, the department plans to add to its resource library, an automated placement information management system that will keep pace with the technological advances in the university and corporate recruiting industry.

All current and former students may use the services offered by the Career Center. All students are advised to visit the Career Center frequently each

semester either to register or update their existing files. Senior and graduate students must register with the center at least one year in advance of their planned graduation date.

Cooperative Education and Intern Programs

Cooperative Education (Co-op) and Intern Programs are provided by the Department of Career Planning and Outreach Services, which combines students' academic education with on-the-job training. The department offers employment opportunities through both a Co-op and Intern tract. The primary focus is to enhance a student's placement opportunities by offering paid temporary employment within their particular business, industry or government field of study. Co-op programs involve alternating semesters of on-campus instruction with employment periods resulting in a meaningful professional and educational experience. Internships provide employment opportunities for students during the summer months between school terms. The expected objectives are to better prepare students for immediate employment upon graduation, and to assist students in the development of attitudes and skills conducive to effective performance in the academic, employment and interpersonal arenas.

Student participants in the program must be registered students, and be in good standing. Students are eligible to participate in a Co-op program after a successful completion of 30 hours of college course work with a minimum 2.5 grade point average. To earn academic credit, students must have the Co-op experience approved and supervised by their academic department. Departments reserve the right to approve Co-op student participation according to academic performance criteria set within each major.

Students need to apply at least one semester in advance of the semester they wish to be employed. Applications are available in the Career Center. Each department has an established number of elective semester hours in a major that may be satisfied through approved Co-op program participation. To receive credit for the Co-op experience, a student must formally register for a Co-op course with the university.

Outreach Programs

The Department of Career Planning and Outreach offers **Outreach Programs** that facilitate the development of a student pool and support the students from enrollment to graduation. In addition, the Department has responded to Prairie View A&M University's third mission of community service by creating outreach employment opportunities that involve both faculty and students' collaborations within the community.

The Institute

The Department sponsors the Institute for **Pre-College Enrichment** that provides a series of on-campus residential career development workshops for academically talented high school students. The program's focus is to increase academic and career awareness of the students and provide them with limited experiences of college life. The Institute assesses the students' readiness for college and motivates them to strive for excellence through the exposure to

successful students and distinguished practitioners in various disciplines and professions. The Institute also offers cultural and recreational activities.

Community Services

Career Planning and Outreach has expanded its role by soliciting and participating in the provisions of outreach services to the community by students supervised and trained by the university faculty. The department's primary objective is to identify and obtain programs and resources that assist the university in meeting its third mission of **Service**. Specific departmental resources have been redirected to develop outreach programs that use both the talent and resources of the university to improve the quality of life and the standard of living for the community at large.

Parent Services

The Department of Career Planning and Outreach is the **Parents' Liaison Office** on the campus of Prairie View A&M University. The liaison office coordinates the activities of the PVAMU Parents' Association Advisory Committee and assists in planning activities that facilitate parent involvement in new student orientation activities and in the enrollment, retention and education of their sons and daughters.

For more information on Career Assistance, Cooperative Education, Co-op/ Internships and/or Outreach at Prairie View A&M University, write to the university's Department of Career Planning and Outreach, P.O. Box 66, Prairie View, Texas 77446-0066.

Dining Services

The University's Campus Dining Hall is located in Alumni Hall, and offers students, faculty, staff, and guests a complete commercial food service operation.

Overview of the Board Operation

All students living in the residence halls are required to participate in the board plan; however, they do have the option of one of two plans.

Selection of Board Plan Option

Plan B-three meals a day seven days a week

Plan C-three meals a day five days a week (Weekends are not included)

Please note that students will automatically be placed on Plan B, unless otherwise requested by the student. On the second floor of Alumni Hall, the cafeteria has the capacity to feed over 3,000 customers at a time. This facility is equipped with five serving stations which currently offer customers unlimited seconds and a wide variety of food selections. The main cafeteria line offers three premium entrees, a choice of two vegetables and other side dishes. The

fast food line is a changing menu selection of all time favorites, to include hamburgers, hot dogs, pizza, chicken nuggets, fish, tacos, etc. The sandwich shoppe line is a special treat for customers that enjoy tasty sandwiches that are made to order. In addition, our board customers can enjoy unlimited servings from the salad bar, pastry station, waffle station, ice cream depot, beverage bar, or soup and bean station.

Any student who withdraws from the university or transfers to off-campus status will be billed for board, only for the number of the days they resided in the residence hall. Please note that the board plan is calculated based on days enrolled, not meals eaten.

Disciplinary Management

Students are responsible for being fully acquainted and compliant with the rules and regulations published in the *University Student Handbook and Residence Hall Handbook*.

The disciplinary system of the University as it relates to student conduct incorporates the following:

1. **Administrative Hearing** - An administrative hearing shall be conducted by the administrative hearing officer of the Division of Student Affairs in all cases of student misconduct other than minor disciplinary infractions in the residence halls.
- 2.- **Residence Halls Judicial Board** - The Judicial Board functions in cases of minor disciplinary infractions by on campus residents. An administrative hearing shall be required when the judicial board is not in session.
3. **Appeals** - A student who has been assessed a disciplinary sanction may file an appeal with the chairperson of the University Judiciary Appeals Panel. Following the written notification of intent to appeal and pending the hearing, the disciplinary action taken by the university shall be stayed unless the Vice President for Student Affairs has determined in a case involving suspension, dismissal, or expulsion that the continued presence on campus of the charged student poses a continuing danger to persons or property or an ongoing threat of disrupting the academic process.

Health Services

The Owens-Franklin Health Center, located on the main campus, coordinates health care services for the student body. The Health Center is open from 8:00 a.m. - 6:00 p.m. Monday through Friday with nurses and/or physicians on duty to attend to basic health care needs and to provide a limited amount of out-patient health care. The Health Center is not equipped or staffed to provide in-patient or emergency services. Emergency Medical Services are provided, however, by the Waller-Hempstead EMS with on call (24 hour) Para-Medics. The Para-Medics are backed up by an on-call (24 hour) Ambulance

Service to transport patients to full service hospitals in the area, if required. 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 p.m. - 8:00 a.m. Monday-Friday and for 24 hours on Saturdays and Sundays. The 911 Emergency Service is available 24 hours per day, seven days per week for life threatening emergencies.

Since the Student Health fee does not cover ambulance transportation or services rendered at a full service hospital, it is imperative 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 from the Owens-Franklin Health Center.

Library

The five-story John B. Coleman Library, opened in 1988, dominates the skyline of Prairie View.

The library's fast-growing collection contains 297,817 volumes, 462,381 microforms, a Texas State Documents Collection, curriculum materials, University Archives and special collections featuring "The Black Heritage of the West" and "Blacks in the Military". Patrons also have access to thousands of periodicals and electronic texts through CD-ROM, Internet, and other online resources. The Coleman Library is completely automated, to better serve its patrons.

The Reference Department provides library orientation, research assistance, and computer research services for the campus. Patrons may utilize the Circulation Department's free national interlibrary loan service for obtaining materials not held by Prairie View A&M University or arrange for private study rooms and carrels. Faculty and students may apply for a TEXSHARE card to utilize collections among academic institutions in Texas. Faculty and graduate students may also arrange for a HARLiC (Houston Area Research Library Consortium) card, which may be used to check-out materials from local libraries. The Learning Resources Center houses a large media collection in addition to additional computer workstations with Internet access and word-processing features.

Most books are loaned for a period of three weeks to students. Regular library hours are Monday through Thursday from 8:00 a.m. to 11:30 p.m., Friday and Saturday from 8:00 a.m. to 5:00 p.m., and Sunday from 1:00 p.m. to 10:00 p.m. A full-time staff member is always available in each department of the library to assist students with their research needs.

Memorial Student Center

The nucleus of extracurricular activity on campus, Memorial Student Center (MSC) has facilities for leisure, recreation, meetings, receptions, dances, and other student activities. The MSC holds active membership in the Association of College Unions International and sponsors competitive events in video games, board games, billiards, and the "college bowls."

Also located in the MSC are the college exchange and bookstore, a ballroom, beauty and barber salons, and a coffee shop. A number of offices are located in

the MSC, including management offices of the MSC and the Department of Student Activities, as well as offices for student groups such as the Student Government Association, the PanHellenic Council, and the Council of Student Organizations.

Religious Activities

The Johnson-Phillip All Faiths Chapel is the center of campus religious activities. Designed for both solitary meditation and interdenominational group worship, the chapel caters to the needs and interests of students through programming that addresses the major issues confronting the university community as well as the community at large. The All Faiths Chapel Advisory Board composed of students, faculty, staff and community members conceptualizes and presents programs with the support of the Dean of Chapel.

The United Ministries, housed in the chapel, provide opportunities for students to maintain voluntary association with religious groups representing their personal preferences. The ministries work with students through the All Faiths Chapel and through local community churches.

Residential Life/Housing

Nine residence halls provide living/learning centers for students. Each residence hall is staffed with personnel charged with general responsibility for the welfare of the student occupants and care of the facility. Students assist in planning residence hall programs and related activities. They also help develop standards of conduct, determine social regulations, and create an atmosphere that promotes wholesome living and productive study in the residence halls. Additional information is provided in the Residence Hall Handbook, issued upon check-in.

Services provided in the residence halls include study areas, telephones (optional), cable TV, lounge areas, microwave ovens, vending areas, and limited storage spaces. The university reserves the right to approve campus housing assignments, and at any time to transfer students from one residence hall to another or require any student considered an undesirable tenant to vacate a residence hall. The university also reserves the right to conduct unannounced inspection of rooms for health, safety and security of assigned residents.

Because Prairie View A&M University is a residential campus, undergraduate students are encouraged to live in university residence halls where they can benefit from the living/learning environment. Regularly enrolled students who do not live in university residence halls are classified as commuter students. Undergraduate students who fall into one or more of the following categories are eligible to apply for commuter student status:

1. Students living at home with their parents or legal guardians (within 50 miles)
2. Married students
3. Veterans of military service

4. Students who are 21 years of age or older
5. Students engaged in off-campus assignments or affiliations
6. Students enrolled for less than 12 hours for the semester

Services for Students with Disabilities

The Office of Disabled Student Services (DSS) is charged with the responsibility of establishing and preserving records on students with disabilities. DSS will seek ways to achieve and maintain program accessibility for all students with disabilities, interpret federal guidelines and disseminate information as a means of keeping administrators, faculty and staff current on issues relative to students with disabilities.

In addition to regular DSS programs, students with disabilities have access to counseling and referral services geared to their specific needs. The Texas Rehabilitation Commission also provides services through the Office of Disabled Student Services.

All students with disabilities, whether physical, learning or emotional, should register with DSS to avail themselves of the services offered and to inform the office of their specific needs. The Office of Disabled Student Services (DSS) does not provide personal services or devices such as eye glasses, hearing aides, crutches, etc.

Information about services offered is available from the Office of Disabled Services located in Evans Hall, Room 317.

Student Activities

Student activities at Prairie View A&M University are based on a concept in student advisement and programming that encourages teamwork and networking. Activities are planned to provide for the personal development of leadership skills, with the recognition that being a positive supporter or follower also has merit. A variety of social and cultural events are sponsored by the Campus Activities Board, the Student Government Association and various independent organizations.

More than 30 academic honor societies, eight national Greek fraternities and sororities, and numerous academic, service, hometown, special interest, and social clubs are represented on campus. The university music ensembles, majorettes, cheerleaders, and the Charles Gilpin Players, a theatrical ensemble, build school spirit and provide cultural enrichment. Outstanding speakers from the public and private sectors lecture frequently on the campus and performing artists make scheduled appearances.

The Prairie View Panthers varsity sports teams for men and women compete in the Southwestern Athletic Conference and in NCAA football, golf, basketball, tennis, track, baseball, and volleyball. An active intramural sports program for all students is coordinated by the Department of Health and Human Performance.

Traffic and Security

The Department of Traffic and Security 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.

The Department of Traffic and Security enforces university traffic regulations in addition to patrolling the campus community to maximize the protection of life and property. Automobiles operated on the campus must be operated in full compliance with federal, state and local laws. Traffic control and speed limit signals and signs are posted throughout the campus. Failure to comply with traffic and parking regulations may result in fines and/or cancellation of operating permits.

All full-time and part-time students, faculty, and staff are required to register and obtain a permit (decal) for each vehicle operated or parked on the campus. Visitor permits will be issued without charge for periods of up to 72 hours by the University Traffic and Security Department. Unregistered or illegally parked vehicles are subject to impoundment and fines.

Student Life

Student Life at Prairie View A&M University is designed to help students establish personal value systems and refine interpersonal skills in support of their lifetime aims. Student Life programs are aimed at giving students an opportunity to achieve their educational goals without neglecting the support, encouragement, and sense of community that foster a feeling of belonging.

Student development and programming consists of various programs and seminars designed to keep students informed and involved. Programs deal with contemporary issues, career decisions, wellness concerns, as well as leadership enhancement.

Prairie View A&M University is accredited by the Southern Association of Colleges and Schools.

ACADEMIC REGULATIONS

Admission Requirements

Submission of a completed application for admission to the Graduate School.

A bachelor's degree from an accredited college or university.

An official transcript of all college work (undergraduate and graduate) from the registrar of each college previously attended.

Graduate School

ADMINISTRATIVE OFFICERS

Willie F. Trotty, B.S., M.S., Ph.D.
Dean, Graduate School

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

Edward W. Martin, B.A., M.A., Ph.D.
Dean, College of Arts and Sciences

Barbara A. P. Jones, A.B., A.M., Ph.D.
Dean, College of Business

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

John Fuller, B.S.E.E., M.S.E.E., Ph.D.
Interim Dean, College of Engineering and Architecture

The Graduate School provides opportunities for advanced study to qualified students seeking additional graduate education and/or degrees. Programs are offered under the joint supervision of the Graduate School and associated colleges within the university.

Colleges in the Graduate School offer 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, and Certificate Endorsements.

Prairie View A&M University offers most of its graduate courses on the main campus at Prairie View. However, each semester a number of courses are offered at off-campus sites. Off-campus sites are currently located in Northwest Houston, Texas at the Prairie View A&M University Graduate Instruction and Research Center (Compaq Computer Campus), the Rosenberg school system, the campus of the Prairie View College of Nursing near downtown Houston, and in the Beaumont-Port Arthur area.

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ACADEMIC REGULATIONS

Admission Requirements

1. Submission of a completed application for admission to the Graduate School.
2. A bachelor'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.
8. Recommendation of admission by the department head and dean of the college in which the graduate program applied for is offered and formal acceptance by the dean of the Graduate School.

International Students. International students applying to Prairie View A&M University for admission are required to meet all University and United States Immigration requirements.

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, and February 1 for the summer sessions. 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 for the allotted semester must request and receive an update of admission before attempting to enroll.

Application Fee: A nonrefundable admission application fee of \$10.00 must be submitted along with the application by applicants who hold or will be holding nonimmigrant visas while in the United States, and any applicants who are considered for admission on the basis of foreign credentials. Applications will not be processed without payment of the application fee. The application fee must be made in the form of an international money order payable in U.S. dollars or certified check made payable to Prairie View A&M University. **DO NOT SEND CASH.**

TOEFL: Students from countries where English is not the dominant language must provide evidence of proficiency in the English language with their application for admission to Prairie View A&M University. Scores earned on the Test of English as a Foreign Language (TOEFL), administered by the Educational Testing Service, Princeton, New Jersey, must be submitted before admission will be granted. Minimum scores for admission consideration are 500 for undergraduate students and 550 for graduate students. As part of the application process for unconditional admission to the university, graduate students must also pass additional instruments required by their departmental major.

Students presenting a score of less than 550 will be evaluated and admitted provisionally on a case-by-case basis. Students admitted provisionally are required to participate in the ESL Institute and to demonstrate oral and written

proficiency in English by the end of two semesters of attendance at the University or be dismissed from the University.

Affidavit of Financial Support: Applicants on nonimmigrant student visas must have a signed and notarized statement (Affidavit of Financial Support) guaranteeing their ability to pay expenses while matriculating at the University.

Evaluation of foreign transcripts: Applicants 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: Educational Credential Evaluators, Inc., P. O. Box 92870, Milwaukee, WI 532020970, (414) 289-3400.

Form I-20 AB: The Immigration Form I-20 AB (Certification of Eligibility for nonimmigrant (F-1) Student Status), needed to obtain a student visa, will be issued only after the applicant has been admitted for enrollment and an "Affidavit of Financial Support" signed and notarized has been received. **Form I-20 AB will only be issued to the individual for whom the form is processed.** If the form is not picked up in person, it will be forwarded by U.S. mail only to the admitted student.

Full-time Course of Study: Regulations at the Immigration and Naturalization Service require that all individuals on F-1 or J-1 visas pursue a full-time course of study at all times. Full-time undergraduates must carry a minimum 12-semester credit hour load. Full-time graduate students must carry a minimum 9-semester credit hour load if enrolled in course work only, or a combination of course work and research or writing equivalent to 9 semester credit hours.

International Student Affairs Office: 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 directly to the Owens-Franklin Health Center by each student.

Additional assistance will be available in the Accelerated Learning Resource Center for students needing or wishing to improve their English language usage, comprehension, and speech patterns.

Applications should be submitted to:

Office of Graduate School and Research
Prairie View A&M University
P. O. Box 2355
Prairie View, Texas 77446-2355

Types of Admission

Graduate Degree Status. Students admitted as regular graduate students are called degree status students.

Provisional Graduate Status. Students admitted to this category may enroll for 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. Students who have a bachelor's degree (minimum GPA of 2.45) and wish to take graduate courses without qualifying for a degree have this status. Students must meet all course prerequisites in order to be admitted to advanced courses. Elevation to degree status must be recommended by the appropriate department and college and approved by the dean of the Graduate School.

Special Student Status.

1. Students who wish to take graduate courses but 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 as potential graduate students. Students in this category may enroll for not 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 college.
2. Students who are removed from degree status because of a low GPA may become special students. Students in this category may petition the department and college for re-admission to degree status after earning a 3.0 GPA. A petition will be allowed only one within a period of two years (24 months).
3. Students whose academic records were not received before the deadline period relating to the time in which the students wish 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.

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 for 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 senior in this university who is within six semester hours of completing the requirements for an undergraduate degree may, upon being recommended by the department head and college dean, be approved to 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 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 be met:

1. The proposed second master's degree must be in a distinct and 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).

ACADEMIC INFORMATION

Advisement and Academic Counseling

Each student is assigned a departmental major advisor upon admission to the Graduate School. The student should consult the advisor at least once during each semester and receive approval of courses to be taken for the degree. Consultation on all academic concerns should begin with the major advisor.

Tentative Degree Plan

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.

DEGREE REQUIREMENTS

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 department 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 Graduate Office.

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 in the Graduate School 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 requested by the department and college concerned.

The Master of Arts degree is an applied science and arts degree. A thesis is optional. However, a form of Art, approved by the specific department, college dean and dean of the Graduate School, must be presented as the option to the thesis requirement for the Master of Arts degree.

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

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

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 the close of the spring and the final summer sessions.

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. This Candidacy Form must list all courses to be completed as well as those completed. Individual departments or colleges may have additional requirements for admission to candidacy. The application, when approved by the department head and college dean, must be submitted to the Graduate Dean for final approval.

Transfer of Credit

Graduate credit earned in another accredited institution, not exceeding six semester hours, may be transferred and credited to the master's degree. Graduate credit for which the student received lower than a "B" grade cannot be transferred to this university. An "A" grade from another institution or earned in extension courses may not be used to validate a grade of "C" earned in this university.

A student who has satisfied requirements for admission to the Graduate School may receive credit toward the master's degree for extension courses, subject to the following conditions: (a) graduate credit will be given only for such courses approved by the Graduate Council; (b) the courses must be accepted by the college as part of the degree program; and (c) graduate credit for extension courses shall not exceed six semester hours. Correspondence work is not accepted for graduate credit. With the consent of the department concerned, a student may take work by correspondence to remove deficiencies in undergraduate training. Not more than six semester hours of extension and transferred credits combined may be counted toward the master's degree.

Grading System for Graduate Students

Course work for graduate students is reported as "A" (95-100); "B" (85-94); "C" (75-84); "D" (65-74); "F" (below 65); "I" (incomplete); "W" (Withdrew officially or withdrew passing).

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 cumulative grade point average below 3.00 is subject to academic dismissal upon recommendation of the department and college to the dean of the Graduate School.

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. 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.

The work of a graduate student performed in connection with the thesis problem is reported as a regular grade.

STUDENTS REQUIRING MODIFICATIONS FOR EXAMINATIONS

Students who need special modifications for examinations must submit the following information:

1. a letter from the student requesting modifications;
2. a letter of diagnosis from the appropriate professional; and
3. test results confirming the diagnosis.

This information should be submitted to the Office of the Coordinator, Academic Advising Center upon enrollment at the University. Students currently enrolled must follow the same procedure.

Approval of requested modifications will be made by the Test Coordinator after review of the circumstances and documents presented. Upon approval and at the student's request, faculty members will be advised of the required modifications in order that students may be provided assistance.

Time Limit on Work for Master's Degree

A student must complete requirements for the degree within six consecutive years after the first date of enrollment in the Graduate School. Credit for individual courses completed in residence between six and seven years before all requirements for the master's degree are completed may be validated by special examination given by the department concerned. Courses completed in extension or at another institution beyond the time limit cannot be validated. A course in which a grade of "C" was earned cannot be validated. A validated course is valid as credit toward the master's degree only during the term in which it is validated.

Student Petitions and Appeals

A student who has problems arising from course evaluations, advancement to candidacy, degree requirements or general regulations should discuss them first with the advisor. If a student wishes to appeal a decision, the department chairman, the college dean and the Graduate School dean should be consulted, in that order.

Course Load

The following limitations on course load are in effect:

1. During a regular session, a graduate student may not enroll for more than 15 hours.
2. During a five- or six-week summer term, a graduate student may not enroll for more than six semester hours, except when one course is a four-hour course, in which case the student may enroll for seven hours. The total credit hours earned for the two summer sessions may not exceed fourteen.
3. A graduate student may not enroll for more than three semester credit hours during a three-week summer term.
4. A graduate student enrolled in a three-week term may not enroll for more than one three-hour course in the six week term 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.

Additional Information

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), withdrawal while passing (WP), and incomplete (I) will not be included among grades used to compute grade point averages. Withdrawal while failing (WF) will result in inclusion of the failing grade in grade point average computations. 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.**

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 college dean and may

involve payment of a fee. No change in registration is complete until filed with the registrar for recording.

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.

Administrative Course Changes to Registration. Beginning with the end of late registration, Administrative Course Changes in registration may be executed. Executed Administrative Course Changes must be presented to the Office of Admissions and Records by the Instructor or Department Head or Dean of the College. Students are not permitted to present Administrative Course Changes to the Office of Admissions and Records.

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.

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.

Requests for Transcripts. A student may request and receive a transcript of his or her official record at any time upon payment of the required fee. Allow fifteen (15) working days from date of the receipt of a request in the Office of Admissions and Records for production of a transcript. The first transcript issued is free. Except for authorized university officials, no person may receive a copy of a student's transcript unless a written request signed by the student is filed with the registrar. All such requests must include the name and identifying social security number under which the student was last enrolled, the name and address of the person to whom the transcript is to be issued or mailed, and the transcript fee.

Family Educational Rights and Privacy Act of 1974. This Act, 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 the certain directory-type information may be made public on all student unless individual students state in writing (within the first twelve class days) to the Office of Admissions and Records 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. Students' grades will not be posted.

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

Official Withdrawal from the University

A student who chooses to leave the University 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.

The Procedure:

1. Obtain an official withdrawal form from the Office of Admissions and Records.
2. Obtain all required signatures.

Required Signatures:

- a. Advisor or Department Head or Dean
- b. Student Life Dean
- c. Auxiliary Services Director
- d. Financial Aid Director

3. Return the completed official withdrawal form to the Office of Admissions and Records. Withdrawal from the University will be effective on the date the completed (with all signatures) official withdrawal form is received in the Office of Admissions and Records.

Conditions For Withdrawal

A. Voluntary Withdrawal From The University

1. A student who officially withdraws voluntarily from the University prior to the end of the Change of Program Period will not have courses recorded on his/her permanent record.
2. A student who officially withdraws voluntarily from the University after the Change of Program will have courses and grades recorded on his/her permanent record under the following provisions:
 - a. After the close of the Change of Program Period up through the week prior to the beginning of the week of mid-semester, a student withdrawing voluntarily from the University will have a grade of "W" recorded for each course.
 - b. Beginning with the week of mid-semester examinations during a regular term or through the mid-point of a summer term, upon notification that a student has voluntarily withdrawn from the University, the instructor is to assign a grade of "WP" if the student was passing and a grade of "WF" if the student was failing.

B. Withdrawal Due to Dismissal or Involuntary Conditions

1. A student who prior to the Change of Program Period is dismissed from the University or withdraws due to involuntary factors, e.g., personal illness, will not have courses recorded on his/her permanent record.
2. After the close of the Change of Program Period up through the week prior to the beginning of the week of mid-semester a dismissed student or one who involuntarily withdraws will have a grade of "W" recorded for each course.
3. Beginning with the week of mid-semester examinations during a regular term or through the mid-point of a summer term, upon notification that a student has been dismissed or has withdrawn involuntarily, the instructor is to assign a grade of "WP" if the student was passing and a grade of "WF" if the student was failing.

C. Administrative Withdrawal

1. Students who do not fulfill their financial obligations when due are subject to having privileges suspended through Administrative Withdrawal. Administrative Withdrawal will result in transcripts being withheld and may result in the loss of room and board privileges and loss of classroom

admittance for the semester. Administrative Withdrawal does not eliminate outstanding debt(s) including tuition, fees, room and board, or other incidental charges. A student who has been Administratively Withdrawn can have privileges restored upon payment of a reinstatement fee and all outstanding charges. Administratively withdrawn students will be responsible for all debts, including tuition, fees, room and board, and other incidental charges for the full semester unless they officially withdraw from the university.

D. From Classes

1. With the approval of his/her advisor or department head or Dean of the College in which he/she is enrolled, 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. After the close of the Change of Program Period up through the week prior to the beginning of the week of mid-semester during the regular term or through the mid-point of a summer term, a student may withdraw from a course, with the approval of his/her advisor, and the Dean of the College in which he/she is enrolled, and have a grade of "W" recorded for the course.
3. Beginning with the week of mid-semester examinations during a regular session, or beginning with the mid-point of a summer term, a student with the approval of his/her advisor, the Dean of the College in which he/she is enrolled, may withdraw from a course. Upon notification that the student has withdrawn, the instructor is to assign a grade of "WP" if the student is passing the course, and a grade of "WF" if the student was failing.
4. A student may not withdraw from a class during the final examination period.

VETERANS BENEFITS AND MILITARY WAIVERS

Veterans, their spouses, and dependents may receive benefits through the Veterans Office located in the Office of Admissions and Records, Evans Hall. This office certifies federal education benefits payable under the G. I. bill, State benefits under the Hazelwood Act for Texas veterans and their children, and military waivers for active duty personnel stationed in Texas and their dependents.

Educational Benefits

Students who are eligible for educational benefits under Chapters 30,34,35, and 106, Title 38, U. S. Code should go to the Office of Admissions and Records, Veterans Affairs, Evans Hall for information, applications, and certifications.

Veterans and Dependents

NOTE: The Hazlewood Act Exemption from fees may apply to students who are eligible for federal educational benefits (SEOG or PELL GRANTS) at the time of registration provided grant money does not exceed Hazlewood benefits.

The university exempts tuition and certain fees for those veterans and dependents qualifying under the Hazlewood Act. Students must have been citizens of Texas at the time they entered the service indicated and have resided in Texas for at least 12 months before the registration date. Hazlewood Exemptions include:

1. All nurses and honorably discharged members of the United States armed forces who served during the Spanish-American War or World War I;
2. All nurses, members of the Women's Army Auxiliary Corps, members of the Women's Auxiliary Volunteer Emergency Service, and all honorably discharged United States armed forces members who served during World War II;
3. All honorably discharged men and women of the United States armed forces who served during the national emergency that began on June 27, 1950, and is referred to as the Korean War.
4. All United States armed forces members who were honorably discharged after serving on active military duty, excluding training, for more than 180 days during the Cold War, which began on the date of termination of the national emergency known as the Korean War.

These exemptions also apply to children of United States armed forces members who were killed in action or died while in service during World War II, the national emergency that began on June 27, 1950, or the Cold War. It also applies to orphans of members of the Texas National Guard and the Texas Air National Guard killed since January 1, 1946, while on active duty. However, to qualify for this exemption, students must be citizens of Texas and must have resided in the state at least 12 months preceding the registration date. Students applying for an exemption must submit satisfactory evidence that they fulfill the necessary citizenship and residency requirements.

Military Waivers

Legal residence - general rule. Persons in military service and commissioned Public Health Service Officers are presumed to maintain during their entire period of active service the same legal residence which was in effect at the time of entering the service. Persons stationed in a state by the military or Public Health Service are presumed not to establish a legal residence in that state because their presence is not voluntary but under military or Public Health Service orders.

Change of permanent address while in the service. It is possible for members of the military service or Public Health Service to abandon the domicile of original entry into the service and to select another, but to show establishment of a new domicile during the term of active service, there must be clear and unequivocal proof of such intent. An extended period of service alone is not sufficient. The purchase of residential property is not conclusive evidence unless coupled with other facts indicating an intent to put down roots in the community and to reside there after termination of service in the military or Public Health Service. For more information see the Residency Coordinator in Admissions and Records, Evans Hall.

Eligibility for waiver of nonresident tuition. Education Code 54.058(b) provides that military personnel assigned to duty within the state of Texas, their spouse and their dependent children, shall be entitled to pay the same tuition as a resident of Texas regardless of the length of their physical presence in the state. To be entitled to pay resident tuition, such military personnel shall submit at the time of each enrollment a statement from their commanding officer or personnel office certifying that they are then assigned to duty in Texas and that same will be in effect at the time of such enrollment in a public institution of higher education. This same provision also applies to commissioned Public Health Service Officers and their dependents. This subsection also provides that nonresident members of an out-of-state National Guard unit who are temporarily training with a Texas National Guard unit will NOT be entitled to pay the resident tuition.

Students enrolled in ROTC programs. A nonresident student who is a member of the ROTC unit will be required to pay nonresident tuition rates until the time the student has signed a contract which cannot be terminated by the student and which obligates the student to serve a period of active military duty.

Other federal employees. The privilege of paying resident tuition rates described in this action is restricted to persons in the military service and commissioned officers of the Public Health Service, and is not extended to other federal employees.

Civilian employees of the military. The privilege of paying resident tuition rates described in this section is restricted to persons in the military service and commissioned officers of the Public Health Service, and is not extended to civilians employed by the military or the Public Health Service.

RESIDENCY

The Residency Coordinator may be found in the Office of Admissions and Records in Evans Hall. Residence is determined under the "Rules and Regulations for Residence Statuses published by the Texas Higher Education Coordinating Board.

Nonresidents

An individual who is under 18 years of age or is a dependent and who is living away from his family and whose family resides in another state or has

not resided in Texas for the 12-month period immediately preceding the date of registration shall be classified as a nonresident student.

An individual who is 18 years of age or under or is a dependent and whose family has not resided in Texas for the 12-month period immediately preceding the date of registration shall be classified as a nonresident student regardless of whether he had become the legal ward of residents of Texas or has been adopted by residents of Texas while he is attending an educational institution in Texas, or within a 12-month period before his attendance, or under circumstances indicating that the guardianship or adoption was for the purpose of obtaining status as a resident student.

An individual who is 18 years of age or over who resides out of the state or who has come from outside Texas and who registers in an educational institution before having resided in Texas for a 12-month period shall be classified as a nonresident student.

Residents

An individual who is 18 years of age or under or is a dependent and whose parents were formerly residents of Texas is entitled to pay the resident tuition fee following the parents' change of legal residence to another state, as long as the individual remains continuously enrolled in a regular session in a state-supported institution of higher education.

An individual who is 18 years of age or over who has come from outside Texas and who is gainfully employed in Texas for a 12-month period immediately preceding registration in an educational institution shall be classified as a resident student as long as he continues to maintain a legal residence in Texas.

An individual who would have been classified as a resident for the first five of the six years immediately preceding registration, but who resided in another state for all or part of the year immediately preceding registration, shall be classified as a resident student.

An individual who is a resident of Texas who marries a nonresident is entitled to pay the resident tuition fee as long as the individual does not adopt the legal residence of the spouse in another state.

Aliens

An alien who is living in this country under a visa permitting permanent resident status or who has filed with the proper federal immigration authorities a declaration of intention to become a citizen has the same privilege of qualifying for resident status for fee purposes under the laws as a citizen of the United States. **12-Month residence.** Generally, individuals who enter the state under a visa which does not allow the establishment of a domicile and who obtain permanent resident status while in Texas must wait a minimum of 12 months from the date of issue to request resident status for tuition purposes under the same conditions as would a citizen of the United States. NOTE: Students holding I-688A and I-688B cards are not eligible to establish domicile in the United States and, thus, are not eligible to request resident status for tuition purposes.

Nonresident Notification

Individuals who are classified as residents but who become nonresidents by changing legal residence through their own action or by the action of the individuals controlling their domicile are required to notify the Office of Admissions and Records, Evans Hall.

Proper Classification

Individuals are responsible for registering under the proper residency classification. If there is a question on classification, individuals are responsible for raising the issue with the appropriate administrative officials prior to or during registration. Notify the Office of Admissions and Records, Evans Hall.

Oath of Residency

Before an individual may register at an institution of higher education paying tuition at the rate provided for residents, the individual must affirm under oath to the appropriate official at the institution that the individual is entitled to be classified as a resident for purposes of tuition.

If the institution later determines that the individual was not entitled to be classified as a resident at the time of the individual's registration, the individual shall, not later than 30 days after the date the individual is notified of the determination, pay to the institution the total amount the individual should have paid as a nonresident for current as well as past semesters.

If the individual fails to make timely payment as required by this section, the individual is not entitled to receive a transcript or to receive credit for courses taken during the time the individual was falsely registered as a resident student.

A nonresident student classification is presumed to be correct as long as the residence of the individual in the state is primarily for the purpose of attending an educational institution. After residing in Texas for at least 12 months, a nonresident student may request to be reclassified as a resident student provided student has met the qualifications as set out in the rules and regulations adopted by the Texas Higher Education Coordinating Board and as restated in this catalog. Any individual reclassified as a resident student is entitled to pay tuition fees for a resident of Texas at any subsequent registrations as long as he continues to maintain his legal residence in Texas.

Residency Status Appeal

Individuals who believe they have been misclassified may, upon written request, have the case reviewed by a residency official in the Office of Admissions and Records, Evans Hall. Questions concerning residence should be directed to:

Office of Admissions and Records
Prairie View A&M University
P. O. Box 3089-121 Evans Hall
Prairie View, Texas 77446-3089

Application for Reclassification

Individuals classified as nonresident students shall be considered to retain that status until they make written application for reclassification in the form prescribed by the institution and are officially reclassified in writing as residents of Texas by the proper administrative officers of the institution. An application for reclassification must be submitted prior to the official census date of the relevant term.

Reclassification as a Nonresident

Individuals who have been classified as residents of Texas shall be reclassified as nonresident students whenever they shall report, or there is found to exist, circumstances indicating a change in legal residence to another state. If individuals who have been classified as residents of Texas are found to have been erroneously classified, those individuals shall be reclassified as nonresidents and will be required to pay the difference between the resident and nonresident fees for those semesters in which they were so erroneously classified regardless of the reason for the incorrect classification. In addition, the individuals shall be required to pay back all monies borrowed from the Hinson-Hazlewood College Student Loan Program.

Penalties

The governing board of each institution required by law to charge a nonresident tuition or registration fee is subject to the rules, regulations, and interpretations issued by the Texas Higher Education Coordinating Board for the administration of the nonresident tuition provisions of the law. The rules, regulations, and interpretations promulgated by the Coordinating Board shall be furnished to all Texas public senior and junior colleges and universities.

The governing board of an institution of higher education may assess and collect from each nonresident student who fails to comply with the rules and regulations of the boards concerning nonresident fees a penalty not to exceed \$10 a semester.

Student Compliance with Institutional Rules and Regulations

Each public institution of higher education has been authorized by statute to assess and collect from nonresident students failing to comply with the provision of the tuition statute, and with these interpretations concerning nonresident fees, a penalty not to exceed \$10 a semester together with all back monies owed. In addition, IF INDIVIDUALS HAVE OBTAINED RESIDENCE CLASSIFICATION BY VIRTUE OF DELIBERATE CONCEALMENT OF FACTS OR MISREPRESENTATION OF FACTS, they may be subject to appropriate disciplinary action, in accordance with the rules and regulations that may be adopted by the governing boards of the respective institutions of higher education.

WAIVERS AND EXEMPTIONS FOR NONRESIDENT FEES

Waivers or exemptions from the nonresident portion of fees are given to those students who qualify under the regulations of the Texas Coordinating Board

for Texas universities and are only temporary in nature. Generally, new applications or approvals must be completed each semester. These waivers or exemptions do not change the residency of the individual. These recipients retain their nonresident classification and that nonresident classification continues to be indicated on the individual's receipt. If the individual's assessment does not indicate nonresident, it must be REPORTED IMMEDIATELY to the Office of Admissions and Records (students are held accountable for misclassifications regardless of the reason or WHO made the error). The waiver or exemption is listed as a separate item on the individual's fee receipt and only pays the nonresident portion of the tuition (individual is still responsible for the resident portion of the tuition).

Eligibility for Waiver of Nonresident Tuition

Military Personnel Stationed in Texas. The Texas Education Code 54.058(b) provides that military personnel assigned to duty within the state of Texas, their spouse and their dependent children, shall be entitled to pay the same tuition as a resident of Texas regardless of the length of their physical presence in the state. To be entitled to pay resident tuition, such military personnel shall submit at the time of each enrollment a statement from their commanding officer or personnel office certifying that they are then assigned to duty in Texas and that same will be in effect at the time of such enrollment in a public institution of higher education. This same provision also applies to commissioned Public Health Service Officers and their dependents. This subsection also provides that nonresident members of an out-of-state National Guard unit who are temporarily training with a Texas National Guard unit will NOT be entitled to pay the resident tuition.

Students enrolled in ROTC programs. A nonresident student who is a member of a ROTC unit will be required to pay nonresident tuition rates until the time the student has signed a contract which cannot be terminated by the student and which obligates the student to serve a period of active military duty.

Teaching or Research Assistants. Teaching or research assistants employed at least half time by any public institution of higher education in a degree program-related position with an effective date of employment on or before the official census date of the relevant term(s), may pay the same tuition while attending the employing institution as a resident of Texas for themselves, their spouses, and their dependent children, regardless of the length of residence in the state.

Teachers, Professors, and their Dependents. Teachers and professors employed at least half time on a regular monthly salary basis (not as hourly employees) by any Texas public institution of higher education may pay the same tuition as a resident of Texas for themselves, their spouses, and their dependent children, regardless of the length of residence in the state if their effective date of employment is on or prior to the official census date of the relevant term(s).

Competitive Academic Scholarship Recipients. Certain students receiving competitive academic scholarships may be exempted from paying nonresident tuition rates. To qualify for exemption from paying nonresident tuition rates a student must be awarded a competitive academic scholarship in the amount

stipulated by the State of Texas, or more, for the academic year, the summer session, or both, by an official scholarship committee or committees of the public institution of higher education they are attending. See the Scholarship Office, 3rd Floor, Evans Hall for details.

UNIVERSITY POLICY ON ACADEMIC DISHONESTY

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

Offenses:

- 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 or 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 Student 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 Affairs 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 Vice President for Academic Affairs and the Vice President for Student Affairs. The Committee is to be comprised of one-third faculty, one-third Student Affairs 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, and the Office for Student 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 record 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.

FINANCIAL ASSISTANCE

Graduate teaching and research assistantships are available to qualified students. Applications for graduate teaching and research assistantships should be submitted to the dean of the Graduate School.

Applications for federal and state loan programs and all other requests for financial assistance should be submitted to the financial aid officer.

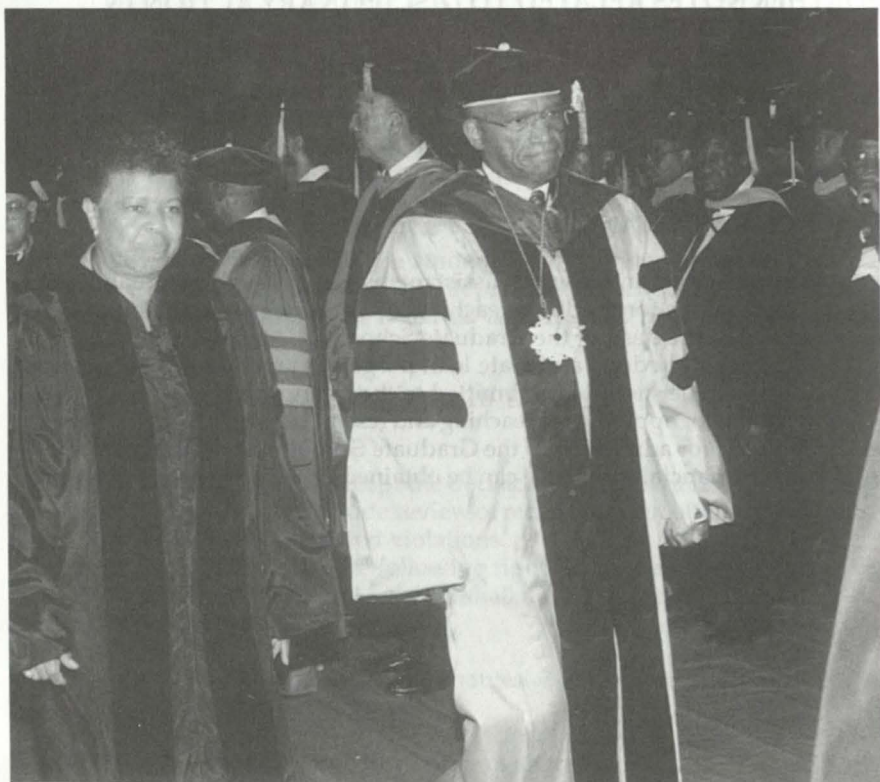
The deadline for applying for teaching and research assistantships is the same as for applying for admission to the Graduate School. The deadline for applying for other financial assistance can be obtained from the financial aid officer.

MISSION AND GOALS

The College of Agriculture and Human Sciences shall serve as the catalyst to foster the high and grand traditions upon which the university was founded, promoting the coordination of programmatic functions among teaching, extension and research. The primary mission of the College shall be to strengthen parties of the university in matters relating to individuals and families of their interactions with social, economic and environmental systems. The graduate programs emphasize the preparation of students for teaching, extension and public service in colleges and universities, in social and public organizations, in managerial positions in business, industry or government. The college recognizes the opportunities for students to tailor the program to

Students are to have an attorney present at a hearing before the department head or dean. The department head or dean will be notified the same opportunity to have equal representation present.

If the student wishes to appeal a recommendation made by the instructor to the department head or dean, he/she must provide written notice to the proper authority within five working days of being notified of the recommendation. Only original, circumstantial facts that will be supported by the entity conducting the hearing.



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 not 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 during the course and, finally, to the University Academic and Disciplinary Committee.

College of Agriculture and Human Sciences

ADMINISTRATIVE OFFICER

Elizabeth N. Noel, *Dean*

ADMINISTRATIVE STAFF

Troy L. Daniels, *Interim Head, Human Sciences*

Alfred L. Parks, *Associate Dean and Research Director*

Freddie L. Richards, *Director, Institute for International Agribusiness Studies*

Cecil L. Strickland, Sr., *Interim Head, Agriculture*

Sarah B. Williams, *Head, Social Work and Sociology*

Linda Williams-Willis, *Extension Administrator*

FACULTY

Abdoulaye Bah, *Sociology*

Ronald S. Briggs, *Sociology*

Troy L. Daniels, *Human Sciences*

Karen Douglas, *Sociology*

Richard W. Griffin, *Agriculture*

Arthur S. Mangaroo, *Agriculture*

Elizabeth A. Martin, *Sociology*

Sharon L. McWhinney, *Human Sciences*

Bobby Mixon, *Agriculture*

Elizabeth N. Noel, *Human Sciences*

Alfred L. Parks, *Agriculture*

Jimmie P. Poindexter, *Sociology*

Juanito C. Reyes, *Agriculture*

Freddie L. Richards, *Agriculture*

Victor G. Stanley, *Agriculture*

Cecil L. Strickland, Sr., *Agriculture*

Sarah B. Williams, *Sociology*

Henry Vandenburg, *Sociology*

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 functions 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 specialities.

INSTRUCTIONAL ORGANIZATION

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

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

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 specialities offered by the departments 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.

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.

Department of Agriculture

FACULTY

Cecil L. Strickland, Sr. *Interim Head, Agriculture and Human Resources*
 Richard Griffin, *Soil Science*
 Arthur S. Mangaroo, *Soil Science*
 Bobby Mixon, *Agricultural Economics*
 Alfred L. Parks, *Agricultural Economics*
 Alfred N. Poindexter, *Animal Science*
 Freddie L. Richards, *Agriculture and Human Resources*
 George H. Stafford, *Agricultural Economics*
 Victor G. Stanley, *Animal Science*
 Lindsey Weatherspoon, *Animal Science*

INSTRUCTIONAL ORGANIZATION

The Department of Agriculture offers the following graduate degree programs:

Programs	Degrees Offered
Agricultural Economics	M.S. in Agriculture
Animal Science	
Soil Science	

The Department 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, Sociology and related disciplines. Students seeking this option should apply for admission to the respective Department and consult with an Advisor.

PROGRAM REQUIREMENTS (Agricultural Economics)

Common Core (9 semester hours)

AGHR	5353	Technological Change
AGHR	5373	Seminar
AGRO	5713	Introduction to Biostatistics

Degree Concentration (Select 15 semester credit hours)

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 (Select 3 semester credit hours)

ECON	5013	Microeconomic Theory
ECON	5023	Macroeconomic Theory

Research/Resource (9 semester credit hours)

AGRO	5783	Application of Biostatistics
AGEC	5263	Research Methods or HUSC 5343 Research Problems
AGEC	5203	Thesis Research or HUSC 5693 Thesis

TOTAL DEGREE REQUIREMENTS 36 Semester Hours**COURSE DESCRIPTIONS****Agricultural Economics (AGEC)**

- 5203. Thesis Research.** (2-2) Credit 3. Initiation of a research project of approved originality and scope for an advanced degree. The thesis report is to be of format, style, and quality consistent with the standards of the agricultural sciences. Lab fee: \$10.00
- 5213. Land Use and Resource Management.** (2-2) Credit 3. 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 \$10.00
- 5223. Farm and Ranch Management.** (2-2) Credit 3. 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 decisionmaking. Laboratory application of principles of economics to the production process, including analysis of costs, returns, and productivity. Lab fee: \$10.00
- 5233. Price Analysis.** (3-0) Credit 3. 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.
- 5243. Agricultural Policy.** (3-0) Credit 3. 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.
- 5253. Marketing of Farm Products.** (3-0) Credit 3. 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.

5263. Research Methods in the Agricultural Sciences. (3-0) Credit 3. 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 prospectives or equivalent.

5283. Agricultural Finance. (3-0) Credit 3. 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.

Agricultural Education (CUIN)

The Department provides the following courses as support for the major programs in the Department and for the College of Education specialization in Agricultural Education.

COURSE DESCRIPTIONS (AGHR)

5323. Workshop in Food and Agricultural Sciences. (2-2) Credit 3. 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: \$10.00

5333. Administration and Supervision of Agriculture and Human Resources. (3-0) Credit 3. Development, organization, administration, and supervision of vocational agricultural education at the local, state, and national levels.

5343. Youth Leadership Development. (3-0) Credit 3. Procedures of organizing and conducting agricultural programs and activities for developing leadership skills in youth.

5353. Technological Change. (3-0) Credit 3. 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.

5373. Seminar. (3-0) Credit 3. 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.

5813. Vocational Guidance and Counseling. (3-0) Credit 3. 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.

5823. Special Topics in the Food and Agricultural Sciences. (2-2) Credit 3.
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

5833. Organization and Administration of Agricultural Extension Programs. (3-0) Credit 3. 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.

PROGRAM REQUIREMENTS (Animal Science)

Common Core (9 semester credit hours)

AGHR	5353	Technological Change
AGHR	5373	Seminar
AGRO	5713	Introduction to Biostatistics

Degree Concentration (Select 15 semester credit hours)

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 (Select 3 semester credit hours)

CHEM	5534	General Biochemistry
CHEM	5543	Intermediary Metabolism
CHEM	5563	Biochemical and Clinical Analysis

Research/Resource (9 semester credit hours)

AGRO	5783	Application of Biostatistics
AGEC	5263	Research Methods or HUSC 5343, Research Problems
AGEC	5203	Thesis Research or HUSC 5693, Thesis

TOTAL DEGREE REQUIREMENTS 36 Semester Hours

Animal Science (ANSC)

- 5513. Physiology of Reproduction.** (2-2) Credit 3. 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
- 5533. Non-Ruminant Nutrition.** (2-2) Credit 3. 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
- 5543. Ruminant Nutrition.** (2-2) Credit 3. 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
- 5553. Dairy Goat Production and Management.** (2-2) Credit 3. 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
- 5563. Animal Health and Diseases.** (2-2) Credit 3. Etiology, epidemiology, immunology, preventive measures, and management practices pertinent to diseases and health of animals. Lab fee: \$10.00
- 5573. Beef Cattle Production and Management.** (2-2) Credit 3. Current research and production practices; the application of developing technology for beef cattle enterprises with economic evaluation of such enterprises. Lab fee: \$10.00

PROGRAM REQUIREMENTS (Soil Science)**Common Core (9 semester credit hours)**

AGHR	5353	Technological Change
AGHR	5373	Seminar
AGRO	5713	Introduction to Biostatistics

Degree Concentration (Select 15 semester credit hours)

AGRO	5613	Environmental Microbiology
AGRO	5653	Quality Control of Agricultural Products
AGRO	5663	Introduction to Environmental Science & Management
AGRO	5723	Land and Waste Management
AGRO	5733	Agricultural Chemicals and Water Quality
AGRO	5743	Principles of Land Reclamation and Recycling
AGRO	5753	Environmental Quality Control and Management
AGRO	5763	Environmental Resource Analysis and Management
AGRO	5793	Problems and Issues in Environmental Science

Support Area Requirements (Select 3 semester credit hours)

BIOL	5073	Environmental Toxicology
BIOL	5053	Air Pollutants

Research/Resource (9 semester credit hours)

AGRO	5783	Application of Biostatistics
AGEC	5263	Research Methods or HUSC 5343, Research Problems
AGEC	5203	Thesis Research or HUSC 5693, Thesis

TOTAL DEGREE REQUIREMENTS

36 Semester Hours

COURSE DESCRIPTIONS

Soil Science (AGRO)

5613. Environmental Microbiology. (3-0) Credit 3. 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.

5653 Quality Control of Agricultural Products. (3-0) Credit 3. Study of differing factors affecting product quality including biological (microbes), environmental (physical and chemical), organoleptic properties, and nutritional and economic values of pre- and post-harvested agricultural products.

5663. Introduction to Environmental Science and Management. (3-0) Credit 3. 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.

5713. Introduction to Biostatistics. (3-0) Credit 3. Study of experimental design, scientific methods, statistical concepts, data analysis procedures, and computer applications.

5723. Land and Waste Management. (3-0) Credit 3. Analysis of management techniques relative to drainage and irrigation systems, organic matter addition, tillage and conservation practices, cropping sequences, soil acidity and liming, and fertilizer and micro-nutrition balance. Comparative study of point and nonpoint pollution, waste treatment systems, air pollution control systems and the legal implications of pollution in agricultural industries.

5733. Agricultural Chemicals and Water Quality. (2-2) Credit 3. 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

- 5743. Principles of Land Reclamation and Recycling.** (3-0) Credit 3. Concepts and techniques of land restoration and reclamation utilizing preservation strategies. Emphasis on and analysis of recycling usables from agricultural and related industries.
- 5753. Environmental Quality Control and Management.** (3-0) Credit 3. Concepts and techniques of environmental protection including environmental quality parameters, overview of environmental legislation, introduction to environmental impact assessment, municipal waste generation, industrial and agricultural waste treatment processes (e.g., physiochemical and biological), waste disposal and costs associated with environmental protection and pollution control strategies.
- 5763. Environmental Resource Analysis and Management.** (3-0) Credit 3. Identification, analysis, evaluation and management of natural and human resources as related to the food and agricultural environment. Utilization of national and state resource data bases as needed for comparative and comprehensive management efficiency.
- 5783. Application of Biostatistics.** (3-0) Credit 3. 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.
- 5793. Problems and Issues in Environmental Science.** (3-0) Credit 3. 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.

Department of Human Sciences

FACULTY

Troy L. Daniels, *Interim Head, Marriage and Family Studies*

Sharon L. McWhinney, *Human Nutrition and Food*

Elizabeth N. Noel, *Human Development and the Family*

INSTRUCTIONAL ORGANIZATION

The Department of Human Sciences offers the following graduate degree program:

Program	Degree Offered
Human Sciences	M.S. in Home Economics

The Master of Science in Home Economics includes degree concentrations in Marriage and Family Studies, Family and Consumer Studies and Interdisciplinary Studies in the Human Sciences.

The Department provides graduate support courses for the College of Education specializations in Home Economics teacher certification. Graduate coursework in Human Sciences may also be applied to a master's degree program in Sociology, Agricultural Sciences and related disciplines. Students seeking this option should apply for admission to the respective Department and consult with an Advisor.

DEGREE PROGRAM REQUIREMENTS

Common Core (12 semester credit hours)

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

Degree Concentration (Select 15 semester credit hours)

HUSC	5683	Family Ethics and Issues
HUSC	5373	Analysis and Treatment of Sexual Dysfunctions
HUSC	5383	Child and Adolescent Therapy
HUSC	5513	Families as Consumers
HUSC	5523	Marriage and Family Therapy
HUSC	5533	Family Theory and Issues
HUSC	5723	Family Financial Counseling

Support Area Requirements (Select 3 semester credit hours)

CNSL	5003	Organization and Administration of Guidance and Human Service Programs
CNSL	5013	Counseling Techniques
CNSL	5043	Consultation
CNSL	5083	Psychology of Abnormal Behavior
AGHR	5343	Youth Leadership Development
AGHR	5353	Technological Change
AGHR	5833	Organization and Administration of Agricultural Extension Programs
SOCC	5233	American Social Welfare
SOCC	5313	Sociology for Community Work
SOCC	5323	Sociology of Youth
SOCC	5343	Sociology of the Minority Family
SOCC	5383	Rural Sociology

Resource/Research (Select 6 semester credit hours)

HUSC	5343	Research Problems or AGECE 5263, Research Methods
AGRO	5713	Introduction to Biostatistics
HUSC	5693	Thesis or AGECE 5203, Thesis Research
AGRO	5783	Application of Biostatistics

NON-THESIS DEGREE OPTION: A student may substitute the 6 semester credit hours of Research/Resource with 6 semester credit hours of Post-Baccalaureate Field Placement in an approved site directly related to the planned career choice.

TOTAL DEGREE REQUIREMENTS**36 Semester Hours****COURSE DESCRIPTIONS****Human Sciences (HUSC)**

5313. Studies in Family Resource Management. (3-0) Credit 3. 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.

5343. Research Problems. (3-0) Credit 3. 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.

5373. Analysis and Treatment of Sexual Dysfunctions. (3-0) Credit 3. Analysis of varied factors affecting sexual functioning among men and women with an emphasis on marital and family dynamics.

- 5383. Child and Adolescent Therapy.** (3-0) Credit 3. Comparative analysis of cognitive, behavioral, and psychological theories. Examination of major strategies for intervention; emphasis on intervention, diagnoses and therapeutic strategies.
- 5393. Family Communication.** (3-0) Credit 3. 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.
- 5513. Families as Consumers.** (3-0) Credit 3. Theories of consumer behavior; the family's relationship to the consumer movement; consumer issues; dimensions of consumer roles; interaction of consumers with government and the market; consumer decision making; evaluation of published consumer information and protection legislation.
- 5523. Marriage and Family Therapy.** (3-0) Credit 3. Issues, practices and principles of marriage and family therapeutic strategies and techniques. Analysis of strategies and application of techniques in simulated situations required.
- 5533. Family Theory and Issues.** (3-0) Credit 3. 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.
- 5543. Theories of Child Development.** (3-0) Credit 3. 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.
- 5553. Human Development.** (3-0) Credit 3. 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.
- 5683. Family Ethics and Issues.** (3-0) Credit 3. Critical review of current literature on family ethics; principle problems of confidentiality, therapist and client relationships; special consideration given to state and federal law.
- 5693. Thesis.** (0-6) Credit 3.
- 5723. Family Financial Counseling.** (3-0) Credit 3. 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.
- 5993. Independent Study.** (0-0) Credit 3. Readings, research, and/ or field placement focusing on pre-selected issues.

Department of Social Work and Sociology

FACULTY

Sarah B. Williams, *Head, Social Work and Sociology*

Abdoulaye Bah, *Sociology*

Ronald S. Briggs, *Social Work*

Karen Manges Douglas, *Sociology*

Charles A. Hines, *Sociology*

Elizabeth A. Martin, *Social Work*

Jimmie P. Poindexter, *Social Work*

Henry Vandenburg, *Sociology*

PURPOSE AND GOALS

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. Sociologists analyze systems that range from individuals in small groups to entire societies. In addition to social theory and social research, students may choose courses in criminal justice, gerontology, substance abuse, the family, and modern social problems. The sociology degree program prepares students for professional careers with government agencies and with the business sector. Students pursuing the baccalaureate degree in sociology may become certified in secondary education. Additionally, a sociology degree is an excellent preparation for many post-baccalaureate degree programs.

INSTRUCTIONAL ORGANIZATION

The Department of Social Work and Sociology offers the following graduate degree program:

Program	Degree Offered
Sociology	M.A.

The Department also provides graduate support courses in Sociology to related degree programs.

DEGREE PROGRAM REQUIREMENTS

Common Core (9 semester credit hours)

SOCG	5213	Social Theory
SOCG	5223	Social Research
SOCG	5123	Social Statistics

Degree Concentration Options

Thesis: 30 semester credit hours of graduate sociology courses plus 6 semester credit hours of research and thesis.

Non-Thesis: 36 semester credit hours of graduate sociology courses.

Select 21-27 semester credit hours from the following course options:

SOCG	5233	American Social Welfare
SOCG	5243	Sociology of Urban Areas
SOCG	5253	Seminar in Sociology
SOCG	5263	Sociology of Education
SOCG	5273	Programs of Child Welfare
SOCG	5283	Aspects of Poverty
SOCG	5293	Social Disorganization
SOCG	5313	Sociology for Community Work
SOCG	5323	Sociology of Youth
SOCG	5333	Criminology
SOCG	5353	Race and Ethnic Relations
SOCG	5553	Sociology of Gender and Sex Roles

SOCIOLOGY AS A MINOR: A minimum of 12 semester credit hours of graduate sociology courses identified in consultation with an advisor.

COURSE DESCRIPTIONS

Sociology (SOCG)

5123. Social Statistics. (3-0) Credit 3. This course provides a review of statistical measurement, measurement of central tendency, non-parametric statistics, analysis of variance, correlation techniques and regression analysis.

5213. Social Theory. (3-0) Credit 3. This course is designed to introduce major classical sociological theories. Systems theory, the conflict perspective, symbolic interaction and other sociological theories are discussed.

5223. Social Research. (3-0) Credit 3. A study of the various methods of social investigation, such as the social survey, the case study method, and historical, statistical, and ecological techniques. Emphasis is placed on the collection, analysis and interpretation of different types of information in connection with special problems of social research.

5233. American Social Welfare. (3-0) Credit 3. Historical development of social work as an institution. Fields of specialization and functions of agencies. Research papers tracing the development of specific areas of social work.

5243. Sociology of Urban Areas. (3-0) Credit 3. Considers the city and its hinterland as a sociological entity; urban neighborhoods, population groupings and movements, social processes, trends, and problems are treated in the light of historical, ecological, and social factors.

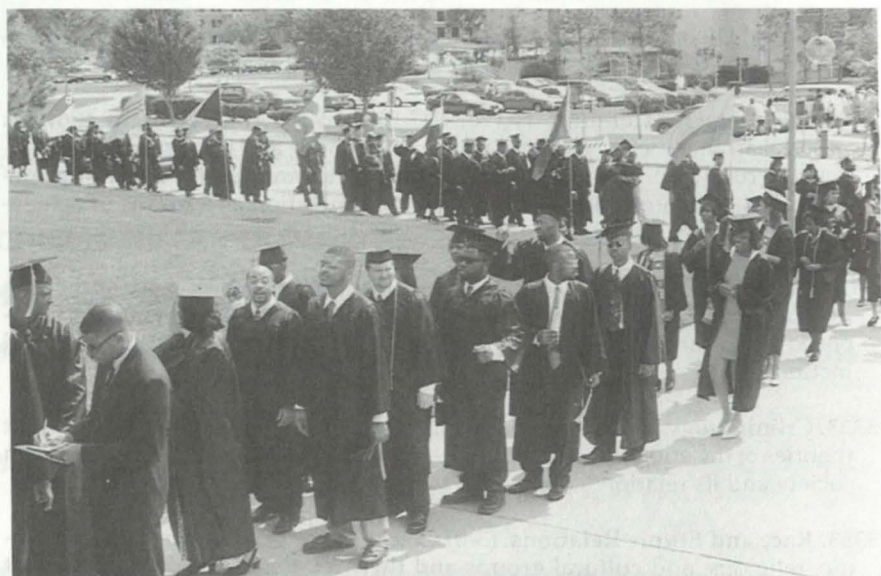
- 5253. Seminar in Sociology.** (3-0) Credit 3. Seminar approach to specialized fields and topics in sociology. Subject matter varies by semester. May be repeated for credit when topics vary.
- 5263. Sociology of Education.** (3-0) Credit 3. Analysis of factors influencing the structures and function of the educational institution.
- 5273. Programs of Child Welfare.** (3-0) Credit 3. A study of child welfare movements and contemporary children's agencies and their services, including programs for improving the home environment for children and youth, substitute care, safeguarding health, employment protection, and delinquency prevention.
- 5283. Aspects of Poverty.** (3-0) Credit 3. Presentation of several theoretical perspectives on poverty in American society. Past, current, and proposed solutions to poverty are discussed.
- 5293. Social Disorganization.** (3-0) Credit 3. This course examines social problems in society from the social disorganization approach.
- 5313. Sociology for Community Work.** (3-0) Credit 3. Analysis of the complex of social arrangements, group characteristics, traits, and institutions that characterize rural and urban living. Emphasis on techniques for analyzing special social problems and utilizing social organization as a means of achieving program objectives.
- 5323. Sociology of Youth.** (3-0) Credit 3. The culture of adolescence and youth in modern societies, with emphasis on Western Civilization's youth as influenced by social class and ethnic status and by the family and other societal institutions.
- 5333. Criminology.** (3-0) Credit 3. Nature and extent of crime. Past and current theories of the etiology of criminal behavior. Emphasis on crime in American society and its relation to American values and institutional arrangements.
- 5353. Race and Ethnic Relations.** (3-0) Credit 3. The exploration of racial, ethnic, religious, and cultural groups and their relations. The cycle of contact competition, conflict, accommodation and assimilation will be studied.
- 5553. Sociology of Gender and Sex Roles.** (3-0) Credit 3. The sociological, biological and psychological meanings of gender and sex roles are explored. The gender roles of males and females in the family, schools, politics and the job market are explored. The impact of changing laws and gender inequity upon the individual and society will be explored.
- 5991-5992-5993-5996.** Independent Study. (0-0) Credit 1, 2, 3, or 6. Reading, research and/or field work on selected topics. Prerequisite: consent of advisor.

223. Seminar in Sociology (3-0) Credit 3. Current research in specialized fields and topics in sociology subject matter varies by semester. May be repeated for credit when topics vary.

224. Sociology of Education (3-0) Credit 3. Analysis of factors influencing the structure and function of the educational institution.

225. Program of Child Welfare (2-0) Credit 2. A study of child welfare problems and contemporary children's activities and their social, psychological, and physical aspects. Includes the role of child welfare workers and youth centers. Includes the sociology of child welfare and child delinquency.

226. Aspects of Poverty (3-0) Credit 3. A study of various theoretical perspectives on poverty in America. Social, cultural, and political causes and effects of poverty are discussed.



227. Sociology of Gender and Sex Roles (3-0) Credit 3. The sociological, psychological and psychological meanings of gender and sex roles and exploration of gender roles of males and females in the family, schools, politics and the labor market. The impact of changing laws and gender equality on the individual is discussed. Prerequisite: 221 or 222.

228. Independent Study (0-0) Credit 1, 2, or 3. Reading research and/or field work on selected topics. Prerequisite: consent of advisor.

College of Arts and Sciences

ADMINISTRATIVE OFFICER

Edward W. Martin, *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, history, mathematics, and music. 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.

<i>Departments</i>	<i>Programs</i>	<i>Degrees Offered</i>
Music and Drama	Music (Applied)	M.A.
Biology	Biology	M.S.
	Environmental Toxicology	M.S.
Chemistry	Chemistry	M.S.
English & Foreign Languages	English	M.A.
Mathematics	Mathematics	M.S.
Division of Social & Political Sciences	History	M.A.

The college also provides graduate support courses in these areas as well as several others.

ADMISSION TO PROGRAM

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

1. Submit a formal application for admission to the Graduate School. The following deadline dates apply:
 - April 1, for 1st Summer Session
 - May 1, for 2nd Summer Session
 - July 1, for Fall Semester
 - November 1, for Spring Semester
2. Submit official transcripts of records covering all college and university work completed to date, together with official evidence of degree(s) conferred. A separate original and official record of completed academic course work must be presented from each institution previously attended. In addition to having the records sent, each student must have in his/her possession official records for use when in conference with the departments and for other purposes when such records are needed.

3. 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.

ADVANCEMENT TO CANDIDACY

A student must meet all general requirements and complete the requirements for the specific program area before submitting an Application for Admission to Candidacy for a degree. Consult the catalog section on general requirements for the Graduate School.

PROGRAM REQUIREMENTS

Specific program requirements for masters degrees are presented by each department offering the degree. Refer to the specific program area for details.

Department of Biology

FACULTY

George E. Brown, Head, *Microbiology*
 Lee E. Henderson, *Science Education*
 Harriette Howard-Lee, *Zoology, Biochemistry*
 Ronald D. Humphrey, *Microbiology*
 Edward W. Martin, *Embryology*
 Seab A. Smith, *Science Education*
 Verlie A. Tisdale, *Biology*

PURPOSE AND GOALS

The graduate programs in Biology and Environmental Toxicology of the Biology Department are designed to provide training at the master's degree level for those persons who wish to continue graduate work elsewhere at the doctoral levels; for those who wish to teach biology in high schools, junior and liberal arts colleges, and for those who wish to seek employment in various fields of biology, including 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.

DEGREE PROGRAMS

The Department of Biology offers the following graduate degree programs:

Programs	Degrees Offered
Biology	M.S.
Biology (Environmental Toxicology)	M.S.

Graduate coursework in Biology may also be applied to a master's degree program in Education with a concentration in Biology. Students seeking this option should apply for admission to the College of Education. The Department also provides graduate support courses to other degree programs.

ADMISSION TO PROGRAM

A student entering graduate study in Biology must present a minimum of 24 semester hours in undergraduate Biology, including courses in General Biology or in Zoology and Botany. In addition to the minimal Biology courses, a student should have completed at least four semester credit hours in both Inorganic and Organic Chemistry. 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'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's 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.

PROGRAM REQUIREMENTS (M.S. - Biology)

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.

Program A: A minimum of 30 hours of graduate Biology plus a thesis.

Program B: A minimum of 30 hours of graduate Biology and a minor in some other area plus a thesis.

Graduate Minor in Biology: A minor in Biology at the graduate level includes 12 semester hours of graduate Biology.

Environmental Toxicology Program (M.S. in Biology with Option in Environmental Toxicology). The Environmental Toxicology Program is designed to prepare individuals to work with governmental agencies including the Environmental Protection Agency, Department of Agriculture, Food and Drug Administration, and with a variety of industries which produce chemicals and toxic substances or other pollutants. Individuals pursuing a degree in environmental toxicology must satisfy undergraduate prerequisites in Biology and Chemistry.

COURSE DESCRIPTIONS

Biology (BIOL)

- 5003. Research in Zoology.** (0-6) Credit 3. Selected individual research problems in any specified area in which the student has a sufficient background. Lab fee.
- 5004. Embryology.** (2-4) Credit 4. Descriptive embryology; vertebrate development with special reference to mammals; includes serial section of the fetal pig. Lab fee.
- 5014. Occupational Toxicology.** (2-4) Credit 4. Occupational chemical and biological hazards in general routes of human exposure; their toxic effects and methods of control.

5024. **Histology.** (2-4) Credit 4. Microscopic study of tissues and organs of vertebrates; relation of structure to function. Lab fee.
5033. **Physiology, Environment, and Man.** (3-0) Credit 3. This course explores the absorption, metabolism, and excretion of environmental agents, their mechanisms of action, and the processes of adaptation by the exposed organism from the sub-cellular level to that of the total organism.
5053. **Air Pollutants.** (3-0) Credit 3. Introduction of the essentials of the toxicology of major air contaminants, the factors governing air quality criteria and standards, and alternatives for air pollution abatement.
5063. **Microbial Activity in Toxicology.** (3-0) Credit 3. Survey of microbial actions in the field of environmental toxicology. Toxicogenic microorganisms, major microbial toxins, and use of microbial systems in toxicological studies. Microbial alterations of environmental contaminants.
5073. **Selected Topics in Environmental Toxicology.** (3-0) Credit 3. 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.
5074. **Genetics.** (2-4) Credit 4. Laws and principles governing heredity in plants and animals; plant and animal improvement through eugenics. Lab fee.
5083. **Legal Aspects of Environmental Toxicology.** (3-0) Credit 3. Basic understanding of the laws designed to regulate the use of toxic chemicals in the environment. Federal and State legislation on air and water pollution, pesticide use, food and feed additives, consumer protection, and occupational exposure and hazards of toxic chemicals.
5093. **Chemical Ecology.** (3-0) Credit 3. Chemically mediated interactions of organisms with one another and their environments. Areas to be covered are: diversity and adaptation, allelopathy, attractants and pheromones, repellents and defensive substances, disposition of chemicals, and research in chemical ecology.
5094. **General Microbiology.** (2-4) Credit 4. Morphology, physiology, classification, cultivation of microorganisms and their relation to agriculture, premedicine, and industry. Lab fee.
5124. **General Parasitology.** (2-4) Credit 4. Morphology, life history, diagnosis and control of the important parasites affecting man and other animals. Lab fee.
- 5141-5151. **Seminar in Biological Problems.** (1-0) Credit 1 each. Student participation in general and specific research topics in Biology.

- 5143. Field and Animal Ecology.** (1-4) Credit 3. Composition, dynamics and distribution of biotic communities in various sections of the Southwest. Outdoor camping and cooking. Lab fee.
- 5164. Invertebrate Zoology.** (2-4) Credit 4. Classification, morphology, embryology, physiology, and life histories of invertebrates, exclusive of insects. Lab fee.
- 5183. Experimental Genetics.** (3-0) Credit 3. Thorough experimentation to show how variations may be brought about; techniques of mating and breeding to support accepted principles. Lab fee.
- 5184. Vertebrate Zoology.** (2-4) Credit 4. Evolution, development, physiology, and anatomy of major taxonomic groups of chordates. Lab fee.
- 5203-5213. Selected Topics in Biology.** (2-2) Credit 3 each. Basic concepts and recent advances in techniques in Physiology, Bacteriology, Botany, Genetics and Entomology. Experiments, demonstrations and field trips.
- 5204. Biology for Teachers.** (2-4) Credit 4. Training course for prospective teachers of zoology and botany. Lectures or conferences, field and laboratory work. Lab fee.
- 5993. Independent Study.** (0-0) Credit 3. Reading, research and/or field work on selected topics in Biology. Prerequisite: consent of advisor.

Department of Chemistry

FACULTY

John R. Williams, Head, *Physical*
 Henry H. Ballard, *Organic*
 Laura Carson-Isabelle, *Polymer*
 Antoine F. Carty, *Organic*
 Larry L. Cole, *Physical Organic*
 Vasant M. Doctor, *Biochemistry*
 Hylton G. McWhinney, *Analytical*

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 individual student. The program includes coursework, seminars, teaching experience, performance of original research, and writing of a thesis.

INSTRUCTIONAL ORGANIZATION

The Department of Chemistry offers the following graduate degree program:

Program	Degree
Chemistry	M.S.

Graduate coursework in chemistry may also be applied to a master's degree program in education with a concentration in chemistry. Students seeking this option should apply for admission to the College of Education. The Department also provides graduate support courses to other degree programs.

ADMISSION TO PROGRAM

Persons 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 courses and of courses in related fields be not less than a grade of "C". The department reserves the right to give a qualification test to students and will make recommendations for the courses needed to enable a student to do graduate work in chemistry.

Students who plan to minor in Chemistry on the graduate level must have fulfilled all requirements for a minor in chemistry on the undergraduate level stipulated in the catalog.

ADVANCEMENT TO CANDIDACY

The Application for Candidacy Form must be approved by the heads of both the major and minor departments 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.

The student is required to pass a written preliminary examination in the major fields of analytical, organic, inorganic, physical and biochemistry before scheduling of the final oral examination which will cover subject materials dealing with the thesis and course work.

PROGRAM REQUIREMENTS (M.S. - Chemistry)

It is recommended that persons 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 spend at least one summer which can be devoted entirely to research. It is required that the thesis be of such quality that it may be published in an accepted scientific journal. Below is a suggested outline of study for the various fields of Chemistry. These, of course, represent the minimum requirement:

MAJOR: Each candidate is expected to successfully complete a minimum of 24 semester hours of course work exclusive of research. These courses must include: CHEM 5314, 5324, 5402, 5534, 5613, 5783, and sufficient graduate electives in Chemistry to satisfy the semester-hour requirement. Only six (6) semester hours of credit for courses designed especially for summer institutes may be applied toward a M.S. degree in Chemistry.

MINOR: The minimum number of hours required for a minor in Chemistry is (12) hours of graduate course work exclusive of research. Only three (3) semester hours of credit for courses designed especially for summer institutes may be applied toward a minor in Chemistry.

COURSE DESCRIPTIONS

Chemistry (CHEM)

5006. Research. (0-0) Credit 6. Problems for investigation may be selected from one of the following fields of chemistry: 1. Analytical; 2. Biochemistry; 3. Inorganic; 4. Organic; 5. Physical.

5013. Research. (0-0) Credit 3. 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.

5023. Research. See CHEM 5013.

5026. Research. See CHEM 5006.

- 5036. Research.** See CHEM 5006.
- 5046. Research Physical Chemistry.** See CHEM 5006.
- 5111 or 5113. Seminar.** (1-0 or 3-0) Credit 1 or 3. Seminar classes will involve lectures, reports, and discussions on current research in Chemistry featuring faculty members, guest lectures and students. Students will make presentations at weekly seminars on topics of interest in Organic, Nuclear, Inorganic, Physical and Bio-medical Chemistry. Topics selected will reflect current trends in research. Prerequisite: Graduate standing or consent of instructor.
- 5121. Seminar.** Continuation of 5111.
- 5213-5223. Chemical Principles.** (3-0) Credit 3. A survey course emphasizing extended treatment, development and application of selected fundamental concepts and principles of Chemistry.
- 5314. Advanced Analytical Chemistry.** (2-4) Credit 4. Chemical analysis and characterization of chemical substances. Theory and practice of sampling, synthesis, isolation, purification, and analysis of compounds. Laboratory program designed to develop technical efficiency, familiarity with instrumental techniques and chemical literature, trace analysis, and methods of handling experimental data including use of the computer are offerings of this course.
- 5324. Instrumental Analysis.** (2-4) Credit 4. The theoretical principles coupled with practice involving modern instrumental techniques. Used for elucidation and characterization of molecular structure and physical properties of systems in Chemistry, including biochemical and biomedical systems. Trace Analysis. Techniques include: polarography, fluorometry, differential thermal analysis, NMR, atomic absorption, mass spectrometry, infrared and UV-Visible spectroscopy, and ion selective electrode methods. Course will emphasize computer acquisition and reduction of experimental data. Prerequisite: CHEM 4023.
- 5402. Advanced Organic Chemistry.** (2-0) Credit 2. A review of elementary Organic Chemistry with an extension of more advanced topics. Includes assigned subject materials.
- 5412. Organic Synthesis.** (2-0) Credit 2. Conferences and laboratory work dealing with the syntheses of various organic compounds. Prerequisite: two semesters of Organic Chemistry.
- 5414. Identification of Organic Compounds.** (2-4) Credit 4. The separation and identification of pure organic compounds and mixtures.
- 5423. Quantitative Organic Chemistry.** (3-0) Credit 3. An introduction to micro-methods. The determination of elements and functional groups by micro-methods.
- 5433. Advanced Topics in Organic Chemistry.** (3-0) Credit 3. Considers stereochemistry, reaction mechanisms, and terpenes and carbohydrates.

- 5534. General Biochemistry.** (2-4) Credit 4. 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 3033 or permission of instructor.
- 5543. Intermediary Metabolism.** (3-0) Credit 3. The intermediates formed in the metabolism of fats, carbohydrates, proteins, minerals and nucleic acids and interrelation between the metabolic pathways in both plants and animals. Prerequisites: CHEM 4044 and 4023.
- 5563. Biochemical and Clinical Analysis.** (1-4) Credit 3. Conference and laboratory work dealing with the analysis of blood, urine and vitamin assay. Prerequisite: CHEM 4033.
- 5582. Nutrition.** (2-0) Credit 2. Lectures, assigned readings on the most recent developments in research on vitamins, amino acids, proteins, minerals and hormones as related to human and animal nutrition. Prerequisite: CHEM 4053.
- 5613. Advanced Inorganic Chemistry.** (3-0) Credit 3. The periodic law, several forms of the table. Quantum numbers. A brief discussion of chemical bonds and resonance. Structure and properties of typical non-metallic compounds. Behavior of aqueous electrolytes in non-aqueous solvents.
- 5733. Quantum Chemistry.** (3-0) Credit 3. Elementary principles of quantum mechanics with applications to atoms, molecules, and chemical topics. Angular Momentum perturbation and variation methods. Matrix and group theory methods in quantum mechanics. Molecular orbital theory. Prerequisite: CHEM 4013-4023; MATH 3073-4013.
- 5743. Chemical Thermodynamics.** (3-0) Credit 3. A rigorous presentation of classical thermodynamics. The application of the laws of thermodynamics to chemical systems including systems with intensive properties other than temperature and pressure. Calculations of heats of reaction, free energy and entropy using tabulated thermodynamic data. Principles and methods of statistical thermodynamics applied to simple physio-chemical systems. Introduction to the thermodynamics of irreversible processes. Bioenergetics.
- 5754. Nuclear and Radio Chemistry.** (2-4) Credit 4. A study of the theories of nuclear structure, nuclear energy, nuclear reactions and radioactivity. Radiation detection and measurement; interaction of radiation with matter; health physics; radioisotope technology. Prerequisite: consent of advisor.
- 5783. Advanced Physical Chemistry.** (3-0) Credit 3. 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. Specific areas to be announced in advance of the semester in which the course will be offered. Prerequisites: CHEM 4013-4023 and mathematics through Differential Equations.

5993. Independent Study. (0-3) Credit 3. Readings, research, and/or field work on selected topics. Prerequisite: consent of advisor.

FACULTY

William H. Chapman, Interim Head, English and Education
 Kenneth Haley, English
 Theodore Shinn, Drama
 E. Joanne Thomas-Smith, English (M.A.)

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 history. While graduate students have traditionally become teachers during their careers, many have gone on to pursue careers in business, law, and other fields. Graduate students also gain a strong foundation on which various technical, educational, and administrative careers can be built.

DEGREE PROGRAMS

The Department in English and Foreign Languages offers the following degree programs:

Program in English
 M.A.

Graduate coursework in English may also be applied to a master's degree program in education with a concentration in English. Students seeking the program should apply for admission to the College of Education. The Department also provides students support courses in English to other departments.

ADMISSION REQUIREMENTS

For admission to the program, a student should present a minimum of 12 semester hours of undergraduate English coursework and a minimum of 12 semester hours of graduate coursework. Prerequisite coursework not taken at the undergraduate level must be taken before the student is admitted to the 12 semester hours of graduate coursework. A student is expected to be an English qualifying examination before admission to the degree program. Action on admission to candidacy for a Master of Arts degree in English should be taken after the student has been admitted to the program. A student must be taken at least 12 semester hours of graduate coursework during a regular session, earned at least 12 semester hours of graduate coursework, and maintained a "B" average or better and satisfactorily passed a comprehensive examination in English language and literature.

Department of English and Foreign Languages

FACULTY

William H. Chapman, Interim Head, *English and Education*

Diljit Chatha, *English*

Kenneth Haley, *English*

Theodis Shine, *Drama*

E. Joahanne Thomas-Smith, *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 become teachers during or following completion of the degree requirements, the exposure to American and British literature as well as linguistics and grammar provides students with the foundation on which various technical, educational, and administrative careers can be built.

DEGREE PROGRAMS

The Department of English and Foreign Languages offers the following graduate degree program:

Program	Degree
English	M.A.

Graduate coursework in English may also be applied to a master's degree program in education with a concentration in English. Students seeking this option should apply for admission to the College of Education. The Department also provides graduate support courses in English to other degree programs.

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 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.

PROGRAM REQUIREMENTS (M.A., English)

Of the 33 semester hours required for graduation with the M.A. in English, 27 must be taken at this university.

Major Requirements (M.A., English) 33 Semester Hours

Major: 33 semester hours in English including thesis; no minor

or

24 semester hours in English including thesis; 9 semester hours in an approved minor field

Minor: If minor option selected, 9 semester hours in an approved minor required

Total Degree Requirements 33 Semester Hours

Minor Field Requirements 9 Semester Hours

English Minor: ENGL 5113, and 6 semester hours of 5000 level courses

SUGGESTED PROGRAM SEQUENCE

English Major (no minor)

Language Hours

ENGL	5113	Linguistics and Grammar	3
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Literature

ENGL	5243	Shakespeare	3
ENGL	5233	Medieval Literature	3
ENGL	5213	A Study of the Short Story	3
ENGL	5223	The Novel	3
ENGL	5263	Seminar in Masterpieces of Literature	3
ENGL	5313	Literary Criticism	3
ENGL	5143	English Workshop	3
ENGL	5273	Chaucer	3

Research

ENGL	5123	Research	3
ENGL	5133	Seminar in Thesis Writing	3

English major (minor option)

Language

ENGL	5113	Linguistics and Grammar	3
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Literature

ENGL	5243	Shakespeare	3
ENGL	5213	A Study of the Short Story	3
ENGL	5223	The Novel	3
ENGL	5263	Seminar in Masterpieces of Literature	3
ENGL	5143	English Workshop	3

Minor**9 Semester Hours**

Courses must be approved prior to student's enrolling in them.

Research

ENGL	5123	Research	3
ENGL	5133	Seminar in Thesis Writing	3

COURSE DESCRIPTIONS**English (ENGL)**

5053. Studies in Teaching English. (3-0) Credit 3. 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.

5113. Linguistics and Grammar. (3-0) Credit 3. 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.

5123. Research. (3-0) Credit 3. Principles of literary theory and research technique. Pre-thesis research practice. Prerequisite: 27 hours of graduate English courses.

5133. Seminar in Thesis Writing. (3-0) Credit 3. Application of research skills to thorough development of thesis on topic approved by advisor. Prerequisite: Candidacy for graduate degree.

- 5143. English Workshop.** (3-0) Credit 3. 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.
- 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.
- 5213. A Study of the Short Story.** (3-0) Credit 3. 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.
- 5223. The Novel.** (3-0) Credit 3. 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.
- 5233. Medieval Literature.** (3-0) Credit 3. 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.
- 5243. Shakespeare.** (3-0) Credit 3. 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.
- 5253. Seventeenth Century Literature.** (3-0) Credit 3. Study of modern and contemporary English and American poets, dramatists, and fiction writers. Prerequisite: Acceptance to graduate study or to the teacher certification program.
- 5263. Seminar in Masterpieces of Literature.** (3-0) Credit 3. 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.
- 5273. Chaucer.** (3-0) Credit 3. Detailed study of *Troilus and Criseyde* and selected *Canterbury Tales*. Prerequisite: Acceptance to graduate study or to the teacher certification program.
- 5313. Literary Criticism.** (3-0) Credit 3. Survey of critical theories of literature from Plato and Aristotle to the present. Prerequisite: 9 hours of graduate English courses.
- 5993. Independent Study.** (0-3) Credit 3. Readings, research, and/or field work on selected topics. Prerequisite: Consent of department head.

Department of Mathematics

FACULTY

Evelyn E. Thornton, *Head, Algebraic Topology and Number Theory*

Arouna R. Davies, *Operation Research*

Frank T. Hawkins, *Mathematics Education*

Vera C. King, *Mathematics Education*

Jian-ao Lian, *Wavelet Analysis*

n'Ekwunife Muoneke, *Numerical Linear Algebra*

Pedro A. Oliver, *Applied Mathematics and Geometry*

Jean P. Pemba, *Functional Analysis*

Madolyn Reed, *Mathematics Education*

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

A. D. Stewart, *Differential and Integral Equations*

Johnson 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 Pure Mathematics, Applied Mathematics or Mathematics Education.

A faculty advisor and/or Director 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 the following graduate degree program:

Program

Mathematics

Degree

M.S.

Graduate coursework in mathematics may also be applied to a masters degree program in education with a concentration in mathematics. Students seeking this option should apply for admission to the College of Education. The Department also provides graduate support courses for degree programs in science and engineering.

ADMISSION TO PROGRAM

Application for admission to the Graduate School is made through the Office of the Dean of the Graduate School. Applicants seeking a Master's 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 have a deficiency plan approved in order to meet this requirement.

PROGRAM REQUIREMENTS (M.S. - MATHEMATICS)

A minimum of 36 semester hours (including thesis) is required for the 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". All applicants seeking a degree should plan a degree program with a graduate advisor.

COURSE DESCRIPTIONS

Mathematics (MATH)

- 5003. The Real Number System.** (3-0) Credit 3. 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.
- 5013. Introduction to Point-Set Theory.** (3-0) Credit 3. 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.
- 5023. Complex Analysis I.** (3-0) Credit 3. Holomorphic functions, complex integration, residue theorem. Taylor series, Laurent series, conformal mapping, and harmonic functions. Prerequisite: MATH 4033.
- 5033. Complex Analysis II.** (3-0) Credit 3. Infinite products, Weierstrass factorization theorem, Mittag-Leffler's theorems, normal families, Picard's theorem, and Riemann mapping theorem. Prerequisite: MATH 5023.
- 5103. Special Problems.** (3-0) Credit 3. 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. May be repeated for credit.
- 5113. Elementary Functions.** (3-0) Credit 3. Real number system, algebraic functions, circular functions, exponential functions, logarithmic functions, hyperbolic functions, and their properties. Prerequisite: Graduate standing in mathematics.
- 5123. General Topology I.** (3-0) Credit 3. Topological spaces including continuous functions, compactness, separation properties, connectedness and metric spaces. Prerequisite: MATH 5013.
- 5133. General Topology II.** (3-0) Credit 3. Topological spaces including convergence, product, and quotient spaces, metrisation, compactness and uniform spaces, path spaces and homotopy. Prerequisite: MATH 5123.

- 5173. Computer Programming.** (3-0) Credit 3. 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.
- 5203. Calculus for High School Teachers.** (3-0) Credit 3. 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.
- 5233. Selected Topics in Mathematics.** (3-0) Credit 3. Introduction to symbolic logic and set theory; applications to elementary algebra; linear and plain analytical geometry; and probability statistics. Prerequisite: Consent of instructor.
- 5283. Structure of Arithmetic.** (3-0) Credit 3. Introduction to sets, the number concept, the evolution of numeration systems, modular systems, the number system, measurement, ratio, proportion, and percentage.
- 5293. Logic and Geometry.** (3-0) Credit 3. Elementary logic, plausible reasoning, informal geometry, and coordinate geometry as a mathematical system.
- 5303. Modern Techniques in Secondary Mathematics.** (3-0) Credit 3. 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.
- 5343. Boundary Value Problems.** (3-0) Credit 3. 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.
- 5413. Seminar.** (3-0) Credit 3. Seminar in mathematics for elementary teachers; lectures, demonstrations, and reports on current trends in the field of mathematics. Prerequisites: consent of instructor.
- 5443. Statistics for High School Teachers.** (3-0) Credit 3. Processes of statistical methods, with reference to applications in various fields and with special application to analysis of school data.
- 5473. Probability.** (3-0) Credit 3. Theory of permutations, combinations, distributions, repeated trials, and discussion of the probability integral. Prerequisite: MATH 4043.
- 5543. Integrated Introduction to Geometry.** (3-0) Credit 3. 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.

- 5613. Theory of Matrices.** (3-0) Credit 3. 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.
- 5723. Partial Differential Equations.** (3-0) Credit 3. Existence and uniqueness theorems, techniques for solving first and second order partial differential equations, approximate (numerical) solutions and applications. Prerequisite: MATH 5343.
- 5753. Intermediate Analysis.** (3-0) Credit 3. Continuous functions; sequences; limits of functions; integrable functions; the integral of continuous and bounded functions; series and step-functions. Prerequisite: consent of instructor.
- 5763. Intermediate Differential Equations.** (3-0) Credit 3. Existence theorems, uniqueness theorems, and vector and matrix treatment of linear and non-linear systems of ordinary differential equations. Prerequisite: MATH 3073 or 4113.
- 5773. Advanced Analysis.** (3-0) Credit 3. Continuous functions of several numbers; properties of functions of several numbers; the double integral; and the Tiemann-Stieltjes integral. Prerequisite: MATH 5753.
- 5823. Analytic Mechanics.** (3-0) Credit 3. 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.
- 5893. Thesis Research, A-D.** (0-0) Credit 3. Research for thesis. Course may be repeated for credit.
- 5903. Modern Algebra.** (3-0) Credit 3. Fundamental concepts of algebra; integral domain, fields, and introduction to such concepts as groups, vector spaces, and lattices. Prerequisite: MATH 3013.
- 5913. Real Variables.** (3-0) Credit 3. Introduction to point-sets, rigorous approach to the concepts of function and limit, the Riemann integral, the Lebesgue integral and some of their generalizations. Prerequisite: MATH 5773.
- 5993. Independent Study.** (0-0) Credit 3. Readings, research, and/or field work on selected topics. Prerequisite: consent of advisor.

Department of Music and Drama

FACULTY

Lucius R. Wyatt, *Head, Music Theory*
Rubye N. Hebert, *Voice Performance*
Danny R. Kelley, *Piano Performance*
Vicki A. Seldon, *Piano Performance*
Theodis W. Shine, *Drama*

PURPOSE AND GOALS

The Department of Music and Drama offers the degree Master of Arts in Applied Music. The principal focus on this degree program is to offer preparation in musical performance.

DEGREE PROGRAM

The Department of Music and Drama offers the following graduate degree program:

Program	Degree
Music (Applied)	M.A.

ADMISSION TO PROGRAM

A person admitted to the graduate program leading to the degree Master of Arts in Applied Music must have completed a Bachelor's degree in music from an accredited institution of higher learning. All entering graduate students in music are required to audition before the music faculty and take departmental examinations in the history of music and in music theory.

ADVANCEMENT TO CANDIDACY

Students must meet all general requirements and complete at least 12 semester hours of all program-required courses before being declared as a candidate for the master's degree.

PROGRAM REQUIREMENTS (M.A. - Applied Music)

30 semester hours of graduate courses in music and a graduate music recital.

COURSE DESCRIPTIONS

5343. Classic Music. (3-0) Credit 3. The study of the major developments in music during the Classic era.

- 5333. Baroque Music.** (3-0) Credit 3. The study of the major developments in music during the Baroque era.
- 5343. Classic Music.** (3-0) Credit 3. The study of the major developments in music during the Classic era.
- 5373. Choral Literature.** (3-0) Credit 3. The study of musical works written for choir.
- 5393. Studies in Voice Literature.** (3-0) Credit 3. The study of selected vocal literature, including comparisons of contrasting performance practices.
- 5743. Problems in Teaching Sight Singing.** (3-0) Credit 3. The study of pedagogical strategies and problems in the teaching of sight singing.
- 5873. Nineteenth Century Music.** (3-0). Credit 3. The study of the major developments in music during the Nineteenth Century.
- 5993. Independent Study.** (0-0) Credit 3. Readings, research, and/or field work on selected topics. Prerequisite: consent of advisor.

Applied Music Courses

	<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		

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 studies in the woodwind instruments with attention to appropriate graduate level literature. Private lessons. Flute, oboe, clarinet, bassoon and saxophone.

ANCEMENT TO CANDIDACY

As early as possible in the first semester of residence, a student pursuing the M.A. degree should select a program of study, then obtain the agreement of a professor in that program to direct the student's preparation. For the continuing enrollment and the writing of the thesis, the student and the major professor

Department of Physics

FACULTY

Cleo L. Bentley, Head, *Physics*

DEGREE PROGRAM

The Department of Physics does not offer a graduate degree program, but does provide graduate support courses in physics and physical sciences. The courses offered are designed to contribute to the development of competencies needed by in-service teachers.

DESCRIPTION OF COURSES

Physical Science (PHSC)

5013. Seminar. (3-0) Credit 3. Seminar in biology, chemistry and physics for in-service teachers. Lectures, demonstrations, reports on current trends in the fields of science.

Physics (PHYS)

5013. Physics for the In-Service Teacher. (2-3) Credit 3. Designed primarily for secondary school teachers of physics; graduate credit may be obtained; offered usually during the summer; theoretical and experimental techniques of teaching physics in secondary school.

COURSE DESCRIPTIONS

Division of Social & Political Sciences

FACULTY

William R. Brown, *Interim Head*

Lena Boyd-Brown, *World Civilization, European History*

Purvis M. Carter, *American History*

Howard Jones, *American History*

PURPOSE AND GOALS

The Division of Social & Political Sciences offers the M.A. degree in history with the objective of broadening the intellectual and scholarly capacities of students in understanding and analyzing the historical development of contemporary events, thoughts, values, ideas and institutions. The program is designed to prepare students for careers in teaching history and social studies in schools and colleges, to train specialists for various branches of government, business, archives and other social service, and to continue advanced study. The student may specialize in U.S. History or European and World History.

Students may minor in economics, education, English, business, sociology and mathematics.

DEGREE PROGRAM

The Division of Social and Political Sciences offers the following graduate degree program:

Program	Degree Offered
History	M.A.

ADMISSION TO PROGRAM

In addition to the general admission requirement to the graduate school described elsewhere in the catalogue, students seeking admission to the M.A. degree in history should meet the following requirements:

Prerequisites for a major or minor in the field of history are: (a) lower-level college courses in American and European history that correspond with courses offered in the field of history at Prairie View A&M University; (b) at least one advanced course in modern or contemporary European or American history; (c) a cumulative grade point average of "B" or better in social science courses at the undergraduate level; (d) evidence, by the end of the first semester, as a condition of precandidacy status, of the proper inclination to master the skills and attitudes necessary for graduate study.

ADVANCEMENT TO CANDIDACY

As early as possible in the first semester of residence, a student pursuing the M.A. degree should select a program of study, then obtain the agreement of a professor in that program to direct the student's preparation for the qualifying examination and the writing of the thesis. The student and the major program

professor will arrange the minor program of study with a view towards keeping the major and minor programs reasonably related. A program of study and an area of thesis interest, both to be approved by the history program, must be filed before the end of the student's first semester or summer session in graduate school. A student must complete 12 semester hours of graduate credits before applying for candidacy.

DEGREE PROGRAM REQUIREMENTS

Program Requirements

MAJOR: 21 semester hours, consisting of:

HIST	5903	Thesis
HIST	5923	Tools of Scientific History

and 15 hours from any one or more of these three fields of specialization:

Methods:

HIST	5023	Methods of Teaching History
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American History:

HIST	5313	American Revolution and the Constitution
HIST	5323	Sectionalism and Civil War
HIST	5333	The New South
HIST	5343	Western American History
HIST	5353	Economic History
HIST	5363	Contemporary United States
HIST	5373	American Foreign Relations I
HIST	5383	American Foreign Relations II
HIST	5913	Great American Historians

European History:

HIST	5513	French Revolution and Napoleon, 1648-1815
HIST	5523	England since 1485
HIST	5543	Contemporary Europe

World History:

HIST	5403	Problems of Latin-American History
HIST	5813	History of Civilization to 1500
HIST	5823	History of Civilization, 1500 to Present
HIST	5833	Imperialism

MINOR: 15 semester hours

COURSE DESCRIPTIONS

History (HIST)

- 5023. Methods of Teaching History.** (3-0) Credit 3. The nature of social studies: the development of and changing emphasis in current social studies programs; purposes and values; classroom methods and materials.
- 5043. Multicultural Social Studies.** (3-0) Credit 3. Emphasis is placed on helping administrators and teachers acquire a broad theoretical grasp of multicultural and multiethnic education, and develop the practical skills (strategies, methods, and techniques) for applying that knowledge to various situations.
- 5213. Afro-American History.** (3-0) Credit 3. 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 the many blacks and prejudices of many whites.
- 5313. American Revolution and the Constitution.** (3-0) Credit 3. 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.
- 5323. Sectionalism and Civil War.** (3-0) Credit 3. Regional hypothesis; socioeconomic regionalism; government, politics, and the regional compromise in the middle period; important issues and men; Reconstruction and the new nation.
- 5333. The New South.** (3-0) Credit 3. Relation of the South to national development since 1860; the death of the Old South; Reconstruction and the new nation; the "New Departure," 1876-1900; Southern strivings to follow national patterns, 1900-1932; the New Deal and the New South; the South in world perspective.
- 5343. Western American History.** (3-0) Credit 3. Considers the exploration, settlement and development of the region west of the Mississippi. Examines materials on the early Spanish, French, African and Anglo-Saxon explorations and on the contributions of immigrants who made their homes in the Western region later.
- 5353. Economic History.** (3-0) Credit 3. 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.

- 5363. Contemporary United States.** (3-0) Credit 3. 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.
- 5373. American Foreign Relations.** (3-0) Credit 3. Problems in the diplomatic history of the United States with emphasis on the analysis of the growth of principles in the making and the execution of American foreign policy and challenges to those principles to 1889.
- 5383. American Foreign Relations.** (3-0) Credit 3. The United States and its relationships with Latin America and the rest of the world. Public opinion and the economy.
- 5403. Problems in Latin-American History.** (3-0) Credit 3. Geography and resources of the Latin-American countries; cultural traits of the population; description of the social, political and economic institutions. History of the relations between the United States and Latin American countries. Seminar organization, problem emphasis, special reports, discussion, and research paper.
- 5513. French Revolution and Napoleon, 1648-1815.** (3-0) Credit 3. Seminar approach to the cause and development of the Revolution, the disciplining of the Revolution by Napoleon, the greater France in Europe-the imperialistic impulse of the Revolution.
- 5523. England Since 1485.** (3-0) Credit 3. Development of Britain in modern historical perspective; Tudors and the Reformation; the Stuarts and Parliament; English expansion under Parliament; the Era of Reform and Empire. Lectures, discussions, and special reports.
- 5543. Contemporary Europe.** (3-0) Credit 3. Twentieth century European development in its world setting; the background and causes of World War I; the war itself; the Versailles settlement and post-war effort at political, economic and social security, collectively and nationally; the ideological clash between democracy and totalitarianism which led to global war and the Atomic Age.
- 5813. History of Civilization to 1500.** (3-0) Credit 3. Theoretical scholarly treatment of the ideals and institutions connected with the political, social and economic life during periods of ancient, classical, Medieval and Reformation.
- 5823. History of Civilization, 1500 to Present.** (3-0) Credit 3. Theoretical scholarly treatment of the ideals and institutions connected with political, social and economic life from the 16th century to present.
- 5833. Imperialism.** (3-0) Credit 3. The era of modern imperialism. Development and theories of Imperialism in the scholarship of the field, 1870 to 1920; Humanitarianism; Imperialism and Liberalism, 1870 to 1920.

5903. Thesis. (0-0) Credit 3. Credit allowed upon satisfactory completion of required thesis.

5913. Great American Historians. (3-0) Credit 3. A critical examination of selective writings of American history emphasizing the sociological, economic and political motivations, and historical theory. Representative historians and their writing will be selected from the following periods: Colonial, Revolutionary, Nationalistic, Modern and Contemporary.

5923. Tools of Scientific History. (3-0) Credit 3. 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.

5993. Independent Study. (0-0) Credit 3. Readings, research, and/or field work on selected topics. Prerequisite: Consent of advisor.

THE PROGRAM

The College of Business offers a Master of Business Administration (MBA). Specialization options in specific functional areas of business are not available.

ADMISSION TO PROGRAM

Students desiring admission to the graduate program in the College of Business must meet the general admission requirements given elsewhere in this catalog for the Graduate School. Admission to the Graduate School, however, does not constitute admission to the Master's program in the College of Business.

College of Business

ADMINISTRATIVE OFFICERS

Barbara A. P. Jones, *Dean*

George W. Nelson, *MBA Coordinator*

PURPOSE AND GOALS

The mission of the College of Business at Prairie View A&M University is to provide a high quality, comprehensive business educational program which serves a population with diverse ethnic and socio-economic backgrounds, specifically addressing the needs of African American students. The program is based on the philosophy that in an appropriate and supportive environment, students with diverse educational backgrounds can and will achieve high academic standards and develop those characteristics which encourage success among business professionals.

The College will provide and continuously improve business education at the baccalaureate and master's degree levels in an atmosphere which encourages liberal education values, development of professional skills, research and service. Special emphasis is placed on undergraduate teaching. The College encourages an integrated approach to instruction which helps students understand the relationship among the functional business areas--an insight essential for participants in both large and small business endeavors.

The mission of the MBA Program is to provide students who demonstrate sufficient academic potential with the opportunity to acquire the knowledge and skills expected of a competitive MBA graduate. The program integrates the various business disciplines to provide the high quality educational experience needed for managing a business or other organizational entity. 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.

DEGREE PROGRAM

The College of Business offers a Master of Business Administration (MBA) degree. Specialization options in specific functional areas of business are not offered.

ADMISSION TO PROGRAM

Students desiring admission to the graduate program in the College of Business must meet the general admission requirements given elsewhere in this catalog for the Graduate School. Admission to the Graduate School, however, does not constitute admission to the Master's program in the College of Business.

In determining an applicant's eligibility for admission to the College of Business, the following measures are of critical importance:

1. an overall undergraduate grade point average of 2.75 on a 4.0 scale, or the equivalent; and
2. completion of the Graduate Management Admissions Test (GMAT) with a minimum score of 350.

Students failing to meet the criteria for admission may be placed in a nondegree/special or provisional status. Such students are not entitled to pursue a degree in the College of Business until they receive unconditional admission.

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

Students admitted conditionally (non-degree/special or provisional status) may attain unconditional status by achieving the following:

1. achieve a 3.0 GPA for the first 12 hours of graduate work, with no more than one "C," including satisfactory completion of MGMT 5113, Statistics; and
2. attain a GMAT score of 350.

Completion of Entrance Requirements. Students enrolled in 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 timeframe, the student will be dismissed from the program. Provisionally-admitted students may withdraw from no more than three courses during their initial probationary period. Unconditional admission will require completion of all university requirements, including TOEFL, if appropriate. Discovery of enrollment completed in violation of these requirements will result in permanent bar from enrollment in the M.B.A. Program.

Minimum GPA Standards. Students whose semester GPA for courses leading to the MBA 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 Dean of the College of Business for reasons indicated in this catalog. 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 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 will be dismissed from the program. This applies to courses repeated and to those taken for the first time.

Transfer Credit. Credit from other universities may be transferred to Prairie View by either transfer or continuing students, provided:

- a. Transfer students newly admitted may apply up to six hours of graduate credit earned elsewhere to their Prairie View MBA program. However, that application must be requested during their first semester of registration at Prairie View and included in the degree plan prepared at the time of Admission to Candidacy. Work taken at other institutions expires at the end of six years from completion, just as does work completed at Prairie View.
- b. Continuing students may request transfer of up to six hours credit from other universities to the MBA program for substitution for Prairie View courses, provided:
 - 1) The official catalog description of the course is furnished the MBA 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 MBA Coordinator approves the course for transfer credit prior to enrollment.
 - 3) Subsequent to completion of the course, the student has the university where the course was taken furnish the Office of the Registrar and the MBA Coordinator with either an official course grade report or transcript which reflects the official grade. (Instructor submissions to their Registrar Offices 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 course which is equivalent to the transfer course.
 - 5) The continuing student is in good standing in the MBA Program—unconditionally admitted and with a minimum GPA of 3.0.

Removal of Incompletes. All incompletes must be removed within three regular semesters after the semester in which the grade was received. After that, the grade of “F” will be entered.

ADVANCEMENT TO CANDIDACY

Retention in the M.B.A. Program. For retention in the program, each student must comply with the following:

1. Satisfy the conditions of admission described earlier if admitted conditionally as a provisional student.

2. Maintain an overall GPA of 3.0. A maximum of two "Cs" will be allowed; students will be dismissed from the M.B.A. program when the third grade of C or below has been earned. Students whose overall GPA for courses leading to the MBA falls below 3.0 for two consecutive terms will be suspended from the program.

Admission to Candidacy. Admission as an applicant for the Master's degree program 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 College of Business, to the Graduate Dean. 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 MBA Coordinator's Office. Admission to candidacy is granted by the Dean of the Graduate School. 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 after one has been admitted to candidacy.

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

1. Earned a 3.00 cumulative Grade Point Average with no grade less than a "C".
2. Earned no more than two "C's" in graduate courses.
3. Presented written evidence of any course substitute.
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.

M.B.A. PROGRAM REQUIREMENTS

The Program consists of 21 hours of core courses and 36 hours of advanced courses in Accounting, Economics, Finance, Management, Marketing, and Information Systems. Students with bachelors degrees in business are not required to complete the core courses. Students whose undergraduate programs contained work equivalent to that required by the core courses will be exempted on a case by case basis from taking specific core courses. All students who are conditionally or provisionally admitted, regardless of undergraduate background, must complete MGMT 5113.

Following is the list of core and M.B.A. courses:

Core/Common Body:			Hours
ACCT	5003	Concepts of Accounting	3
FINA	5013	Legal Environment of Business	3
ECON	5003	Concepts of Economic Analysis	3
FINA	5003	Concepts of Finance	3
MRKT	5003	Concepts of Marketing	3
MGMT	5003	Concepts of Management	3
MGMT	5113	Business Statistics	3
M.B.A. Courses			
ACCT	5103	Managerial Accounting	3
ADSY	5203	Managerial Communication	3
MGMT	5123	Quantitative Analysis	3
ECON	5103	Managerial Economics	3
FINA	5103	Theory of Financial Management	3
MRKT	5303	Marketing Management	3
MGMT	5103	Organizational Behavior	3
ADSY	5513	Management Information Systems	3
MGMT	5433	Production and Operations Management	3
MGMT	5323	Strategy and Policy	3
		Business Electives	6

PLAN

No specific academic plan is recommended for students, in view of their widely differing needs and planning timeframes for completion. However, the following constraints must be followed:

1. Students required to take core coursework must complete the appropriate core offering before enrolling in elaborating M.B.A. work. For example, students who must take the core Accounting course (ACCT 5003) must complete that course before enrolling in ACCT 5103.
2. All prerequisites must be taken in numerical sequence. Prerequisites are indicated in the following Course Descriptions.

COURSE DESCRIPTIONS

Accounting (ACCT)

5003. Concepts of Accounting. (3-0) Credit 3. 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.

5103. Managerial Accounting. (3-0) Credit 3. 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.

5313. Seminar in Tax Planning. (3-0) Credit 3. The study of business situations and appropriate alternative plans to minimize taxes. Tax research and planning for business enterprise. Prerequisite: ACCT 5103.

Administrative Information Systems (ADSY)

5203. Managerial Communication. (3-0) Credit 3. 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.

5513. Management Information Systems. (3-0) Credit 3. 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.

Economics (ECON)

5003 Concepts of Economic Analysis . (3-0) Credit 3. 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.

5103. Managerial Economics. (3-0) Credit 3. 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.

Finance (FINA)

5003. Concepts of Finance. (3-0) Credit 3. 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.

5013. Legal Environment of Business. (3-0) Credit 3. 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.

5103. Theory of Financial Management. (3-0) Credit 3. 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.

5303. Managerial Decisions in Finance. (3-0) Credit 3. Case analysis of issues in corporate financial management involving financial statement analysis, working capital management, capital budgeting, capital structure, dividend policy, long-term financing and its effect on corporate value, and mergers and acquisitions. Prerequisite: FINA 5103 or equivalent.

5333. International Finance. (3-0) Credit 3. 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.

5513. Financial Markets and Institutions. (3-0) Credit 3. Role of the financial system in the economy; money, financial intermediaries and central banking; flow of funds and financial markets; instruments and characteristics of money and capital markets; international banking and finance; government regulation and the financial system. Prerequisites: ECON 5003; FINA 5003, or their equivalents.

Management (MGMT)

5003. Concepts of Management. (3-0) Credit 3. Examines major concepts, theories, and practices in management. Topics include theories of management, decision-making, organizational structure, human behavior in organizations, and control processes.

5103. Organizational Behavior. (3-0) Credit 3. 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.

5113. Business Statistics. (3-0) Credit 3. Review of statistical measures, tests of hypotheses, analyses of variance, and specialized correlation techniques as applied to business data.

5123. Quantitative Analysis. (3-0) Credit 3. 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.

5323. Strategy and Policy. (3-0) Credit 3. 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.

5343. Human Resource Management. (3-0) Credit 3. 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.

5433. Production and Operations Management. (3-0) Credit 3. 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.

Marketing (MRKT)

5003. Concepts of Marketing. (3-0) Credit 3. 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.

5303. Marketing Management. (3-0) Credit 3. Applications 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.

5313. International Marketing. (3-0) Credit 3. 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

ADMINISTRATIVE OFFICER

M. Paul Mehta, *Dean*

ADMINISTRATIVE STAFF

Martha Bailey, *Director of Student Teaching and Field Experiences*

Marion Henry, *Director of Teacher Certification*

PURPOSE AND GOALS

The College of Education is the designated teacher education unit of the university. The objectives of the college center around the areas of pre-service, inservice, 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 in a particular area or discipline. They are designed to meet the needs of a diverse group - 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 earn certification and /or endorsements in additional fields. Individuals with noneducation degrees desiring to be certified as teachers may pursue graduate studies in the college to meet the state certification requirements.

DEGREE PROGRAMS

The College of Education provides programs of study leading to the Master of Arts (M.A.), Master of Arts in Education (MAEd), the Master of Science in Education (MSEd), and the Master of Education (M.Ed.) degrees. Requirements for these degrees include a common core of twelve semester hours, a program concentration of twelve semester hours and a research/resource area containing a research requirement or thesis and electives.

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:

<i>Department</i>	<i>Degree</i>	<i>Major</i>	<i>Program Concentration</i>
1. Curriculum and Instruction	MEd/MSEd	Curriculum and Instruction	<ul style="list-style-type: none"> • Agriculture Education • Educational Media & 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 • English Education • Music Education • Special Education
	MAEd/MEd	Curriculum and Instruction	
	MEd/MSEd	Special Education	
2. Health and Human Performance	MEd/MSEd	Health and Physical Education	<ul style="list-style-type: none"> • Health Education • Physical Education
3. School Services	MEd/MSEd	Educational Administration	<ul style="list-style-type: none"> • Educational Administration • Instructional Supervision
	MA/MSEd	Counseling	<ul style="list-style-type: none"> • Counselor Education

ADMISSION TO PROGRAMS

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

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

Department of Curriculum and Instruction

FACULTY

Joan B. Clark, *Head, Early Childhood Education, Elementary Education, Special Education*

Martha Lee Bailey, *Elementary and Early Childhood Education Coordinator*

Clarissa Gamble Booker, *Reading Education Coordinator*

Douglas M. Butler, *Special Education, Educational Research*

Ross Clark, *Curriculum and Instruction*

Ollie Davis, *Early Childhood Education*

Mary Edwards, *Curriculum and Instruction*

M. Paul Mehta, *Curriculum and Instruction*

Marilyn Randolph, *Elementary Education and Early Childhood Education*

Adrian Sorrell, *Special Education Coordinator*

Nikhil Vaiyda, *Educational Research*

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

An individual must have completed a bachelor's degree from an accredited institution of higher learning and admission to Graduate School.

ADVANCEMENT TO CANDIDACY

An individual must have completed twelve (12) semester hours of graduate courses with a minimum grade point average of "B" before admission to candidacy is granted.

PROGRAM REQUIREMENTS (M.S. in EDUCATION OR M.ED.)

Suggested Program

Common Core (12 semester hours)

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 Concentration (12 semester hours)[Reading requires 18 semester hours]

Courses to be selected from program concentration of students choice from the following:

PROGRAMS

Curriculum and Instruction	English Education
Mathematics Education	Industrial Education
Agriculture Education	Music Education
Elementary Education	Reading Education
Educational Media and Technology	Science Education
Home Economics Education	Special Education
	Early Childhood Education

Resource and Research (12 semester hours)

For the M.S. degree:

EDFN 5903 Thesis Research
Electives - Six (6) semester hours

For the M.Ed. degree:

EDFN 5923 Master's Seminar
Electives - Nine (9) semester hours

Total Degree Requirements 36 Semester Hours

CERTIFICATION: 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.

DESCRIPTION OF COURSES

Curriculum (CURR)

- 5003. Theory and Dynamics of Curriculum and Instruction.** (3-0) Credit 3. 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.
- 5133. Principles of Instructional Design.** (3-0) Credit 3. Development of competencies related to translating general and theoretical knowledge about learning and instruction into specifications for materials, devices, or settings.
- 5143. Managing Classroom Interaction.** (3-0) Credit 3. Identification of an 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.
- 5503. Curriculum Evaluation.** (3-0) Credit 3. 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.

5993. Independent Study. (3-0) Credit 3. Reading, research, and/or field work on selected topics. Prerequisite: consent of advisor.

Early Childhood Education (ECED)

5303. Development of the Young Child. (3-0) Credit 3. A study of the sequential stages of growth and maturation of the young child to include physical, social, emotional and cognitive development.

5313. Foundations of Early Childhood Education. (3-0) Credit 3. An overview of the historical, philosophical, and theoretical development of early childhood and its relationship to child development.

5323. Methods and Materials for Teaching Young Children. (3-0) Credit 3. A study of the teaching strategies, techniques and materials designed to enhance learning experiences for young children.

5333. Assessment Techniques in Early Childhood Education. (3-0) Credit 3. 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.

5343. Organization and Administration of Programs for Young Children. (3-0) Credit 3. 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.

5353. Seminar in Early Childhood Education. (3-0) Credit 3. An analysis of current research literature trends and issues in Early Childhood Education.

5363. Early Childhood Practicum. (3-0) Credit 3. Planned observation and interaction experiences with young children in a classroom setting. Organized feedback sessions are provided in structured seminars.

Educational Foundations (EDFN)

5103. Foundations of Educational Research. (3-0) Credit 3. Basic concepts of research design, strategies of experimental, historical and descriptive research, and basic statistical procedures are introduced.

5113. Psychology of Learning and Development. (3-0) Credit 3. 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.

5123. Socio-Cultural Issues in Education. (3-0) Credit 3. 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.

5143. Advanced Educational Statistics. (3-0) Credit 3. Statistical methods and techniques used in educational measurement and research design, analysis of variance, and introduction to non-parametric statistics. Prerequisite: EDFN 5103.

5903. Thesis. (3-0) Credit 3. Selection, preparation, and presentation of a research proposal for purposes of completing thesis requirement. Prerequisite: admission to candidacy and approval of thesis advisor.

5923. Master's Seminar. (3-0) Credit 3. Investigation and analysis of research in the field of curriculum and foundations. Major paper a requirement for this course. Prerequisite: EDFN 5103.

Elementary Education (ELED)

5103. Elementary School Curriculum. (3-0) Credit 3. Characteristics and organization of the elementary school curriculum. Intensive study of competencies included in elementary school subjects: Texas curriculum goals, requirements, and strategies for compliance.

5113. Teaching/Learning Styles In Elementary Classrooms. (3-0) Credit 3. Study of effective instructional performances and effective student learning in elementary classrooms. Analysis of research findings and experiments related to teaching/learning situations.

5123. Studies In Elementary Education. (3-0) Credit 3. Investigation of instructional problems, trends, and research related to the development of educational programs for elementary school children.

5133. Seminar In Elementary Education. (3-0) Credit 3. Analysis of contemporary issues in elementary education; problems and challenges associated with teaching/learning and the education profession.

5143. Individualizing Instruction In Elementary Classrooms. (3-0) Credit 3. 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.

5153. Classroom Communication. (3-0) Credit 3. 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.

5993. Independent Study. (3-0) Credit 3. Readings, research, and/or field work on selected topics. Prerequisite: consent of advisor.

Secondary Education (SCED)

5503. Principles of Secondary Education. (3-0) Credit 3. Origins, development and organization of the secondary school. Contemporary problems and trends in secondary education are identified and studied.

5513. Secondary School Curriculum. (3-0) Credit 3. Characteristics and organization of curriculum and teaching in secondary schools. Relationships to socio-cultural influences in society and within the schools.

Special Education (SPED)

5203. Special Education Seminar. (3-0) Credit 3. 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.

5213. Introduction to Exceptional Children. (3-0) Credit 3. An in-depth study of the various types of exceptional learners and their educational needs.

5223. Psychology of Retarded Children. (3-0) Credit 3. Designed to provide the learner with an overview of various tests, learning characteristics and etiology of the exceptional individual.

5233. Language and Communication Problems. (3-0) Credit 3. 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.

5243. Methods for the Exceptional Learner. (3-0) Credit 3. Deals with problems of instruction, methods of teaching retarded children and learning disabled, organization of special classes and curriculum development for the exceptional learner.

5263. Diagnostic and Perspective Techniques for the Exceptional Learner. (3-0) Credit 3. Designed to provide the opportunity for students to experience and develop a descriptive orientation of the learning disabled student. Prerequisites: SPED 5213, 5243, 5273, and consent of program coordinator.

5273. Learning Theory. (3-0) 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.

5283. Curriculum Adjustment and the Exceptional Child. (3-0) Credit 3. 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.

5343. Practicum. (3-0) Credit 3. Direct experience with children referred to the special education laboratory for testing and evaluation. These referrals are related directly to public school problems.

5353. Individual Testing of Exceptional Child. (3-0) Credit 3. Familiarizes the learner with the administration and interpretation of individualized testing designed for the exceptional learner.

Reading (RDNG)

- 5613. Teaching Reading in the Elementary Grades.** (3-0) Credit 3. Detailed consideration of problems involved in selection of content, grade placement, methods, and materials, and the evaluation of achievement.
- 5623. Psychology of Reading and Reading Difficulties.** (3-0) Credit 3. An examination of social and psychological factors related to success and failure in learning to read.
- 5633. Teaching Reading in Secondary Schools.** (3-0) Credit 3. Instructional approaches to reading in the secondary school. Planning, organizing, implementing, and evaluating instructional procedures and outcomes.
- 5643. Diagnosis and Correction of Reading Difficulties.** (3-0) Credit 3. Diagnostic devices and techniques for identifying strengths and weaknesses in reading. Prescriptive techniques for overcoming difficulties in reading.
- 5663. Clinical Experiences in Reading.** (3-0) Credit 3. Case study analysis, seminars, and field experiences in school classrooms. Prerequisite: Consent of instructor.
- 5673. Issues, Problems and Trends in Reading.** (3-0) Credit 3. Study of historical, current and future issues, problems and trends in reading at the elementary and secondary school levels.

Department of Health and Human Performance

FACULTY

Mary V. White, Head, *Health and Human Performance*

Rena Boss-Vicoria, *Health*

W. Michael Dean, *Human Performance*

Hoover J. 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, health planning agencies, or health maintenance organizations. An internship is required.

DEGREE PROGRAMS

The Department of Health and Human Performance offers the following graduate degree programs:

MSEd. Degree (Health and Physical Education)

MSEd. Degree (Health and Physical Education)

DEGREE PROGRAM REQUIREMENTS

M.S./Education (physical education)

M.Ed. (physical education)

Common Core Education Program

12 hrs.

Concentration (physical education or health)

12 hrs.

Research/Resource

12 hrs.

Total

36 hrs.

MINOR FIELD REQUIREMENTS

Health or physical education requires 12 semester hours of graduate courses in the 5000 series for a minor.

PROGRAM REQUIREMENTS (MSEd Degree)**Suggested Program (Concentration in Physical Education)****Common Core (12 semester hours)**

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 Concentration (12 semester hours)

PHED	5133	Physical Education Curriculum
PHED	5403	Administrative Problems in Physical Education
PHED	5503	Teaching Physical Education
PHED	5123	Scientific Foundations of Physical Education
	or	
PHED	5703	Kinesiology

Research and Resource (12 semester hours)

EDFN	5143	Advanced Educational Statistics
EDFN	5903	Thesis Research
ELECTIVES	(6 semester hours from the courses listed below):	
PHED	5103	Psychology of Motor Learning
PHED	5113	Supervision in Physical Education
PHED	5203	Physiology of Muscular Exercises
PHED	5303	Tests and Measurements in Physical Education
PHED	5343	Professional Preparation in Health, Physical Education, Recreation and Dance
PHED	5353	Mainstreaming in Health, Physical Education, Recreation and Dance

Total Degree Requirements **36 Semester Hours**

PROGRAM REQUIREMENTS (M.Ed. Degree)**Suggested Program (Concentration in Physical Education)****Common Core (12 semester hours)**

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 Concentration (12 semester hours)

PHED	5133	Physical Education Curriculum
PHED	5403	Administrative Problems in Physical Education
PHED	5503	Teaching Physical Education

PHED	5123	Scientific Foundations of Physical Education
or		
PHED	5703	Kinesiology

Research and Resource (12 semester hours)

EDFN	5923	Master's Seminar
ELECTIVES		(9 semester hours from the courses listed below):
PHED	5103	Psychology of Motor Learning
PHED	5113	Supervision in Physical Education
PHED	5203	Physiology of Muscular Exercises
PHED	5303	Tests and Measurements in Physical Education
PHED	5343	Professional Preparation in Health, Physical Education, Recreation and Dance
PHED	5353	Mainstreaming in Health, Physical Education, Recreation and Dance

Total Degree Requirements 36 Semester Hours

NOTE: 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.

PROGRAM REQUIREMENTS (MSEd Degree)**Suggested Program (Concentration in Health)****Common Core (12 semester hours)**

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 Concentration (12 semester hours)

HLED	5033	Community Planning for Health
HLED	5073	Health Care of Children

Research and Resource

PHED	5303	Tests and Measurement in Physical Education
PHED	5903	Thesis Research
ELECTIVES		(6 semester hours from the courses listed below):

Total Degree Requirements 36 Semester Hours

PROGRAM REQUIREMENTS (M.Ed. Degree)**Suggested Program (Concentration in Health)****Common Core (12 semester hours)**

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 Concentration (12 Semester Hours)

HLED	5033	Community Planning for Health
HLED	5073	Health Care of Children

Research and Resource

PHED	5303	Tests and Measurement in Physical Education
EDFN	5923	Master's Seminar
ELECTIVES		(6 semester hours from the courses listed below):

Total Degree Requirements **36 Semester Hours**

COURSE DESCRIPTIONS**Physical Education (PHED)**

- 5103. Psychology of Motor Learning.** (3-0) Credit 3. Learning process in motor skills as the foundation of teaching methods in physical education activities. Practical experience in testing theories.
- 5113. Supervision in Physical Education.** (3-0) Credit 3. Study of principles and practices of educational supervision and their application to physical education.
- 5123. Scientific Foundations of Physical Education.** (3-0) Credit 3. Study of the scientific foundations of physical activity as they relate to biological, psychological, sociological, and biomechanical factors in the teaching of physical education.
- 5133. Physical Education Curriculum.** (3-0) Credit 3. 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.
- 5203. Physiology of Muscular Exercises.** (3-0) Credit 3. Physiological effects of exercise upon the body. Basic physiological concepts and their relation to the total physical education program.
- 5303. Tests and Measurements.** (3-0) Credit 3. Test construction, test administration, and statistical procedures for evaluating test results in physical education.

5343. Professional Preparation in Health, Physical Education, Recreation, and Dance. (3-0) Credit 3. Focus on professional preparation for those students who are teachers and/or administrators of health, physical education, recreation, or dance.

5353. Mainstreaming in Health, Physical Education, Recreation, and Dance. (3-0) Credit 3. Principles and methods of providing educational services for handicapped students in the least restrictive environment.

5403. Administrative Problems in Physical Education. (3-0) Credit 3. Coordination of the different phases of the program; administrative problems of physical education, intramural sports, and intercollegiate athletics.

5503. Teaching Physical Education. (3-0) Credit 3. A study of traditional and innovative teaching techniques in physical education, including the practical application of teaching styles.

5703. Kinesiology. (3-0) Credit 3. 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.

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.

ADMISSION TO PROGRAM

Admission requirements to the graduate programs in the Department of Health and Human Performance are the same as those for admission to the Graduate School. Admission to the Graduate School does not constitute admission to the master's programs in the Department of Health and Human Performance.

In assessing an applicant's eligibility for admission to the Department of Health and Human Performance, the following minimum are considered:

1. A minimum undergraduate grade point average of 2.75 (B+) or the equivalent; and

2. Completion of the Graduate School's Graduate Record Examination.

Department of School Services

FACULTY

William H. Parker, *Head, School Administration*

Janice Beal, *Psychology*

Billy Caesar, *School Administration*

Lee R. Coleman, *Counseling*

Marion Henry, *Coordinator of Educational Media and Technology*

Marie Senegal, *Counseling*

Robert Sughrue, *Educational Administration and Psychology*

Willie F. Trotty, *Educational Administration*

Waymon T. Webster, *Coordinator of Counseling Program*

PURPOSE AND GOALS

The Department of School Services offers programs of study leading to the Master of Science in Education and the Master of Education degrees with program concentrations in Educational Administration and Instructional Supervision, and a Master of Arts degree in Counseling.

DEGREE PROGRAMS

Degree	Program Concentration
Master of Arts (M.A.)	Counseling
Master of Science in Education (M.S.Ed)	Educational Administration
	Educational Administration-Supervision
	Counseling
Master of Education (M.Ed.)	Educational Administration
	Educational Administration-Supervision

The instructional program is also designed to provide course work leading to certificates and the Professional Counseling License.

ADMISSION TO PROGRAM

Students desiring admission to the graduate programs in the Department of School Services must meet the general admission requirements given elsewhere in this catalog for the Graduate School. Admission to the Graduate School, however, does not constitute admission to the Master's program in the Department of School Services.

In determining an applicant's eligibility for admission to the Department of School Services, the following measures are of critical importance:

1. an overall undergraduate grade point average of 2.75 on a 4.0 scale, or the equivalent; and
2. completion of the Graduate Record Examination (GRE).

Students failing 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 School Services until they receive **unconditional admission**.

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

Students admitted **conditionally** (non-degree/special or provisional status) may attain **unconditional status** by achieving the following:

1. achieve 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 EDFN 5103 - Techniques of Research (Administration).
3. satisfactory completion of CNSL 5123 - Appraisal Techniques, and EDFN 5103 - Techniques of Research (Counseling).

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. Discovery of enrollment completed in violation of these requirements will result in permanent bar from enrollment in the Counseling/ Administration Program.

Minimum GPA 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 for reasons indicated in this catalog. 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 will be dismissed from the program. This applies to courses repeated and to those taken for the first time.

Transfer Credit. Credit from other universities may be transferred to Prairie View A&M University by either transfer or continuing students, provided:

- 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. However, transfer requests should be made during their 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 School Services 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 has the university where the course was taken furnish the Graduate School and the Program Coordinator with either an official course grade report or transcript which reflects the official grade. (Instructor submissions to their Registrar Offices 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 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. All incompletes must be removed within four regular semesters excluding the summer in which the grade was received. After that, the grade of "F" will be entered.

ADVANCEMENT TO CANDIDACY

Retention in the Administration/Counseling Program. For retention in the program, each student must comply with the following:

1. Satisfy the conditions of admission described earlier if admitted conditionally as a provisional student.
2. Maintain an overall GPA of 3.0. A maximum of two "Cs" will be allowed; students will be dismissed from the programs when the third grade of C or below has been earned. Students whose overall GPA for courses leading to the Master's degree in Counseling/ Administration falls below 3.0 for two consecutive terms will be suspended from the programs.

Admission 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 School Services/College of Education, to the Graduate Dean. 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 School Services. Admission to candidacy is recommended by the Department Head and Dean of the College and is granted by the Dean of the Graduate School. 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.

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

1. Completed a 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 substitution.
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.

PROGRAM REQUIREMENTS

Master of Arts (M.A.)

Program Concentration (27 semester hours)

Research (6 semester hours)

Practicum (3 semester hours)

Master of Science (M.S.Ed)**Common Core** (12 semester hours)

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

Program Concentration (12 semester hours)

Coursework to be chosen in the administration or counseling area of study.

Research/Resource (9 semester hours)

Coursework to include EDFN 5143, Advanced Educational Statistics.

THESIS (3 semester hours)**Master of Education (M.Ed.)****Common Core** (12 semester hours)

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

Program Concentration (12 semester hours)

Coursework to be chosen from the administration or supervision areas of study.

Resource/Research (12 semester hours)

Coursework to include EDFN 5923 (Masters Seminar), and other departmental requirements and/or electives.

Certification

Course requirements for various certificates can be found in the Teacher Certification section of this catalog.

COURSE DESCRIPTIONS**Administration (ADMN)**

- 5003. Fundamentals of School Administration.** (3-0) Credit 3. A study of educational administration, basic concepts of administrative theory and practice, and the relationship of administrative practice to school organization and control.
- 5013. Educational Administration: Theory, Practice and Research.** (3-0) Credit 3. 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.
- 5023. Public School Law.** (3-0) Credit 3. An examination and study of legal principles as they apply to public education.
- 5033. School Business Management.** (3-0) Credit 3. Management techniques for the school administrator in the areas of preparing and managing the school budget, in-school accounts, and the financial auditing process.
- 5043. The School Principalship.** (3-0) Credit 3. 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.
- 5053. Administration of Special Programs.** (3-0) Credit 3. Administrative and management techniques for implementing special school programs in the areas of special education, reading, career education, vocational-technical education and pupil services.
- 5063. Problems in Education Administration.** (3-0) Credit 3. Study and analysis of contemporary issues related to the administrative function in an educational setting.
- 5103. School Personnel Administration.** (3-0) Credit 3. The administration of school personnel services, including standards and procedures of the personnel office and the supervision and evaluation of personnel records and policies.
- 5113. Planning and Managing Educational Facilities.** (3-0) Credit 3. Educational facilities planning with emphasis on design, financing, and management.
- 5123. School Finance.** (3-0) Credit 3. Fiscal planning for educational excellence. Includes systems of needs assessment, budget preparation, and management. Federal, state, and local resources for financing education.
- 5133. School-Community Relations.** (3-0) Credit 3. 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.

5503. Mid-Management Internship. (0-3) Credit 3. Field-based and seminar experiences designed to provide for on-site school-related activities, and the analysis of actual administrative situations and problems. Prerequisites: 18 semester hours of ADMN course work.

5513. Superintendency Internship. (0-3) Credit 3. Field-based and seminar experiences designed to provide on-site school-system related activities, and the analysis of actual administrative situations and problems.

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.

Counseling (CNSL)

5003. Organization and Administration of Guidance and Human Service Programs. (3-0) Credit 3. 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.

5013. Counseling Techniques. (3-0) Credit 3. 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.

5023. Theory and Practice of Counseling. (3-0) Credit 3. A study of major counseling theories and issues related to therapeutic practice with emphasis on practical application. Prerequisites: CNSL 5013 and/or consent of advisor.

5033. Counseling Process. (3-0) Credit 3. 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. Prerequisites: CNSL 5013 and 5023.

5043. Consultation. (3-0) Credit 3. Theoretical rationale for consultation; content and process of consultation services. Basic principles of and skill development in several approaches to consultation.

5053. Professional Orientation and Development. (3-0) Credit 3. 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.

5063. Counseling Practicum I. (3-0) Credit 3. 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.

- 5073. Counseling Practicum II.** (3-0) Credit 3. 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.
- 5083. Psychology of Abnormal Behavior.** (3-0) Credit 3. An examination of dysfunction in human behavior, with emphasis on description, causation, and treatment. Prerequisite: EDFN 5113.
- 5093. Principles and Practice of Individual Intelligence Testing.** (3-0) Credit 3. History, principles, and methodology of intelligence testing will be examined. Extensive supervised practice in administration, scoring, interpretation, and use of the Wechsler Intelligence Scales. Prerequisites: CNSL 5123 and consent of instructor.
- 5113. Career Development Counseling.** (3-0) Credit 3. 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.
- 5123. Appraisal Techniques.** (3-0) Credit 3. 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.
- 5133. Group Dynamics.** (3-0) Credit 3. Theory and practice in group work. Examination of types of groups; group processes and theories; and techniques and methods of practice in group counseling. Ethical and professional issues addressed. Group participation and facilitation required. Prerequisite: CNSL 5013.
- 5143. Human Growth and Development.** (3-0) Credit 3. A study of the growth and development of the individual. Emphasis on stages of human intellectual, physical, social, and emotional development throughout the lifespan.
- 5153. Cross-Cultural Issues.** (3-0). Credit 3. 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.
- 5993. Independent Study.** (3-0) Credit 3. Readings, research, and/or field work on selected topics. Prerequisite: consent of advisor.

Educational Technology (EDTC)

- 5403. Audiovisual Materials in Instruction.** (3-0) Credit 3. Theoretical and practical experience in the use of instructional media, materials selection, evaluation, and equipment operation for classroom instruction.
- 5423. Reference and Bibliography.** (3-0) Credit 3. 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.
- 5433. Acquisition and Cataloging of Materials and Information.** (3-0) Credit 3. 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.
- 5443. Local Production of Instructional Materials.** (3-0) Credit 3. The development of competencies related to translating specifications for instructional materials into prototype, final version, and /or mass-produced products.
- 5453. Children and Young Adult Literature.** (3-0) Credit 3. 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.
- 5463. School Media Centers.** (3-0) Credit 3. 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.
- 5473. Practicum.** (3-0) Credit 3. Identifying current trends of managing media centers and interfacing in practical experience with theoretical and scientific concepts in public school settings.

Supervision (SUPV)

- 5113. Principles of Supervision.** (3-0) Credit 3. Principles, practices and problems of the supervisory program; includes analysis of current research in the field.
- 5213. The School Supervisor.** (3-0) Credit 3. A rationale for supervision, and techniques for the supervision of instructional personnel and programs' with special emphasis on the clinical supervision cycle.

5513. Supervision Practicum. (3-0) Credit 3. Field-based and seminar experiences designed to provide on- site and/or system-related activities, with analysis of actual supervisory situations and problems.

5713. Problems in Supervision. (3-0) Credit 3. The study and analysis of contemporary issues related to the supervisory function in an educational setting.

5714. Application and Cataloging of Materials and Information. (3-0) Credit 3. Study and analysis of the application and cataloging of materials and information in the library and non-print materials. Application of the Dewey Decimal Classification system.

5715. Production of Instructional Materials. (3-0) Credit 3. Development of instructional materials for instructional purposes. Includes the design, development, and production of instructional materials.

5716. Children and Young Adult Literature. (3-0) Credit 3. Advanced study of the works and authors of books and other materials for children and young adults. Includes the reading of books and magazines and the examination of non-print materials.

5717. School Media Centers. (3-0) Credit 3. Study of the theory and practice of school media centers. Includes the study of school libraries and media centers, factors in the development of school libraries and media centers, and the role of the school media center in the school.

5718. Instruction. (3-0) Credit 3. Identifying current trends of emerging media and interacting in practical experience with theoretical and scientific studies in public school settings. Includes the study of instructional materials and the role of the school media center in the school.

5719. Activities in Supervision. (3-0) Credit 3. Field-based activities and projects. The supervisory program includes analysis of current research in the field of supervision.

5720. The School Supervisor. (3-0) Credit 3. A seminar for supervisors and administrators for the supervisor of instructional personnel and programs. Includes the study of the current supervisory cycle.

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 elementary and secondary certificate programs require the following components:

1. An Area of Specialization (12 semester hours), approved by the Texas Education Agency, 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) of the student's choice, 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). A listing of certificates available and of the specific requirements for each is provided on the following pages.

Applications for admission to graduate teacher certification programs may be obtained from the Graduate School.

APPROVED PROFESSIONAL CERTIFICATE AND ENDORSEMENT PROGRAMS

1. PROFESSIONAL ALL-LEVEL
Learning Resources Specialist

2. PROFESSIONAL ELEMENTARY
General

3. PROFESSIONAL SECONDARY

Biology
Chemistry
English
History

Industrial Technology
Mathematics
Physical Education
Social Science Composite

4. PROFESSIONAL SERVICES CERTIFICATES

Mid-Management Administrator
Counselor
Reading Specialist
Superintendent
Supervisor

5. PROFESSIONAL SPECIAL EDUCATION CERTIFICATES

Early Childhood Special
Education Counselor
Educational Diagnostician
Supervisor

6. TEMPORARY PROFESSIONAL SERVICE CERTIFICATES

Mid-Management Administrator
Assistant Principal
Principal
Superintendent

7. PROFESSIONAL VOCATIONAL CERTIFICATES

Agriculture
Counselor
Home Economics
Supervisor

REQUIREMENTS FOR THE PROFESSIONAL ELEMENTARY CERTIFICATE

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

Academic Specialization (12 semester hours)

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 Development (6 semester hours)

Two of the following four courses:

CURR	5003	Theory and Dynamics of Curriculum and Instruction
EDFN	5113	Psychology of Learning and Development

EDFN	5123	Socio-Cultural Issues in Education
EDFN	5143	Advanced Educational Statistics

Resource Area (6 semester hours)

Two of the following six courses:

ELED	5103	Elementary School Curriculum
ELED	5113	Teaching/Learning Styles in the Elementary School
ELED	5123	Studies in Elementary Education
ELED	5133	Seminar in Elementary Education
ELED	5143	Individualizing Instruction in the Elementary School
ELED	5153	Classroom Communication

Electives (6 semester hours)

Courses may be selected from any of the areas above.

REQUIREMENTS FOR THE PROFESSIONAL SECONDARY CERTIFICATE

Prerequisites: A Texas Provisional Secondary Certificate and three years of teaching experience.

Academic Specialization (12 semester hours)

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

Biology	Industrial Technology
Chemistry	Mathematics
English	Physical Education
History	Social Studies

Professional Development (6 semester hours)

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

Resource Area (6 semester hours)

CURR	5003	Theory and Dynamics of Curriculum and Instruction and 3 semester hours of graduate-level courses selected with approval of advisor.
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Electives (6 semester hours)

Courses must be selected from one of the three areas above, or a combination of them.

REQUIREMENTS FOR SPECIAL SERVICES PROFESSIONAL CERTIFICATES

ADMINISTRATION: MID-MANAGEMENT CERTIFICATE

For the Mid-Management Certificate issued by the Texas Education Agency, requirements are a master's degree, a valid Texas Certificate, two years of acceptable *classroom teaching experience*, and completion of an approved administrative internship experience.

Common Core for Mid-Management Administration and Superintendent (18 semester hours)

ADMN 5003	Fundamentals of School Administration
ADMN 5013	Educational Administration: Theory, Practice and Research
ADMN 5023	Public School Law
ADMN 5033	School Business Management
ADMN 5003	Theory and Dynamics of Curriculum and Instruction
SUPV 5113	Principles of Supervision

Academic Specialization (12 semester hours)

EDFN 5113	Psychology of Learning and Development
EDFN 5123	Socio-Cultural Issues in Education and 6 hours advanced credit electives* from the following areas:

Economics	Psychology	Educational Measurement
Computer Science	Anthropology	Educational Test
Educational Media and Technology	Sociology	Educational Research

Specialized Preparation for Mid-Management School Administrators (15 semester hours)

ADMN 5043	The School Principalship
ADMN 5053	Administration of Special Programs
ADMN 5103	School Personnel Administration
ADMN 5503	Mid-Management Internship and 3 hrs. advanced credit electives*.

*All electives must have advisor's approval

ADMINISTRATION: SUPERINTENDENT CERTIFICATE

Prerequisite: The Professional Mid-Management or Professional Principal Certificate.

Specialized Preparation for School Superintendents (15 semester hours)

ADMN	5063	Problems in Education Administration
ADMN	5113	Planning and Managing Educational Facilities
ADMN	5123	School Finance
ADMN	5133	School-Community Relations
ADMN	5513	Superintendent Internship

COUNSELOR CERTIFICATE

For the Professional Counselor Certificate issued by the Texas Education Agency, requirements are a valid Texas Teacher Certificate, three years of teaching experience, and the completion of 30 semester hours of graduate work in counseling.

The Guidance Program (3 semester hours)

CNSL	5003	Organization and Administration of Guidance and Human Service Programs
		<i>or</i>
CNSL	5053	Professional Orientation and Development

Pupil Services (6 semester hours)

CNSL	5083	Psychology of Abnormal Behavior
EDFN	5113	Psychology of Learning and Development
		<i>or</i>
CNSL	5143	Human Growth and Development

Resource Area (21 semester hours)

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
EDFN	5123	Socio-Cultural Issues in Education
		<i>or</i>
CNSL	5153	Cross-Cultural Issues

COUNSELOR (SPECIAL EDUCATION) CERTIFICATE

For the Professional Special Education Counselor Certificate issued by the Texas Education Agency, requirements are a valid Professional Counselor Certificate and 6 semester hours in special education.

Courses Required (36 semester hours)

CNSL	5003	Organization and Administration of Guidance and Human Service Programs <i>or</i>
CNSL	5053	Professional Orientation and Development
CNSL	5013	Counseling Practicum I
CNSL	5023	Counseling Theory and Practice
CNSL	5083	Psychology of Abnormal Behavior
CNSL	5113	Career Development Counseling
CNSL	5123	Appraisal Techniques
CNSL	5133	Group Dynamics
EDFN	5113	Psychology of Learning and Development
EDFN	5123	Socio-Cultural Issues in Education <i>or</i>
CNSL	5153	Cross-Cultural Issues

Special Education Electives (6 semester hours selected with approval of advisor)

EDUCATIONAL DIAGNOSTICIAN (SPECIAL EDUCATION) CERTIFICATE

For the Professional Educational Diagnostician Certificate issued by the Texas Education Agency, requirements are a master's degree, a valid Texas Teaching Certificate and three years of elementary and secondary teaching experience.

Education for the Handicapped (9 semester hours)

SPED	5213	Introduction to Exceptional Children
SPED	5233	Language and Communication Problems
SPED	5203	Special Education Seminar

Psychoeducational and Other Diagnostic Procedures (9 semester hours)

RDNG	5643	Diagnosis and Correction of Reading Difficulties
SPED	5353	Individual Testing of the Exceptional Child
SPED	5263	Diagnostic and Prescriptive Techniques for the Exceptional Learner

Human Development and Learning Theory (9 semester hours)

EDFN	5113	Psychology of Learning and Development
SPED	5223	Psychology of Retarded Children
SPED	5273	Learning Theory

Instructional Modification (6 semester hours)

SPED	5283	Curriculum Adjustment
SPED	5343	Practicum

Resource Area (3 semester hours)

EDFN 5123 Socio-Cultural Issues in Education

INSTRUCTIONAL SUPERVISOR CERTIFICATE

Prerequisites: A bachelor's degree, a valid Texas Teacher Certificate, and three years of elementary or secondary teaching experience.

Leadership for Instructional Improvement (9 semester hours)

SUPV	5113	Principles of Supervision
SUPV	5213	School Supervision or
SUPV	5713	Problems in Supervision
SUPV	5513	Supervision Practices

Academic Area (12 semester hours)

9 semester hours of graduate level course work in the content area to be supervised.

Resource Area (9 semester hours)

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

LEARNING RESOURCES SPECIALIST CERTIFICATE

For the Professional Learning Resources Specialist Certificate, requirements are a valid Texas Teacher Certificate, three years of successful teaching experience, a basic understanding of multicultural and multiethnic elements in society, and the completion of 36 semester hours of course work.

Specialization (21-24 semester hours)

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 semester hours)

EDFN	5113	Psychology of Learning and Development
EDFN	5103	Foundations of Educational Research

Professional Education (6 semester hours)

CURR	5003	Theory and Dynamics of Curriculum and Instruction
EDFN	5123	Socio-Cultural Issues in Education

*21 semester hours required if the 1 year experience is used.

READING SPECIALIST CERTIFICATE

Prerequisites: A master's degree, a valid Texas Teaching Certificate and three years of secondary or elementary classroom teaching experience.

Reading Education (12 semester hours)

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 semester hours)

ELED	5113	Teaching/Learning Styles
ELED	5123	Studies in Elementary Education (for holders of secondary certificate)
		<i>or</i>
SCED	5503	Principles of Secondary Education
SCED	5513	Secondary School Curriculum

Resource Area (9 semester hours)

EDFN	5123	Socio-Cultural Issues in Education
ENGL	5113	Linguistics and English Grammar
RDNG	5623	Psychology of Reading and Reading Difficulties

REQUIREMENTS FOR THE VOCATIONAL EDUCATION PROFESSIONAL CERTIFICATES

VOCATIONAL AGRICULTURAL EDUCATION CERTIFICATE (31 semester hours)

Academic Specialization (18 semester hours selected from the following courses)

AGHR	5323	Workshop in Food and Agricultural Sciences
AGHR	5333	Administration and Supervision of Agriculture and Human Resources

AGHR	5343	Youth Leadership Development
AGHR	5353	Technological Change
AGHR	5363	Philosophy of Agriculture and Human Resources
AGHR	5373	Seminar
AGHR	5813	Vocational Guidance and Counseling
AGHR	5823	Special Topics in the Food and Agricultural Sciences
AGHR	5833	Organization and Administration of Agricultural Extension Programs

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

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

Resource Area (6 semester hours selected in consultation with an advisor from one of the following categories)

Administration	Counseling
Curriculum	Educational Foundation
Educational Technology	Physical Education
Secondary Education	Special Education
Supervision	

VOCATIONAL COUNSELOR CERTIFICATE

For the Professional Vocational Education Counselor Certificate issued by the Texas Education Agency, requirements are: a bachelor's degree, a valid Professional Counselor Certificate, 12 semester hours of specified vocational guidance courses, and three years of experience. This experience may include teaching experience and not less than one year of wage-earning experience in an occupation for which vocational education is being conducted in the public secondary school, or two years of teaching experience in an approved vocational program preparing students for gainful employment.

Required Courses (39 semester hours)

EDFN	5123	Socio-Cultural Issues in Education
CNSL	5003	Organization and Administration of Guidance and Human Service Programs
CNSL	5013	Counseling Techniques
CNSL	5023	Counseling Theory and Practice
CNSL	5083	Psychology of Abnormal Behavior
CNSL	5113	Career Development Counseling
CNSL	5123	Appraisal Techniques
CNSL	5133	Group Dynamics
CNSL	5063	Counseling Practicum I
EDFN	5113	Psychology of Learning and Development
VOED	5103	Placement and Follow-up

VOED	5403	Occupational and Vocational Education
VOED	5903	Planning and Organization
VOED	5093	History and Principles

NOTE: In addition to course work, certification is dependent upon passing a comprehensive departmental examination.

VOCATIONAL HOME ECONOMICS EDUCATION CERTIFICATE
(30 semester hours)

Academic Specialization (18 semester hours selected from the following courses)

HUSC	5313	Studies in Family Resource Management
HUSC	5323	Family Ethics and Issues
HUSC	5373	Analysis and Treatment of Sexual Dysfunctions
HUSC	5383	Child and Adolescent Therapy
HUSC	5393	Family Communication
HUSC	5513	Families as Consumers
HUSC	5523	Marriage and Family Therapy
HUSC	5533	Family Theory and Issues
HUSC	5543	Theories of Child Development
HUSC	5553	Human Development
HUSC	5683	Problems in Human Sciences
HUSC	5723	Family Financial Counseling

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

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

Resource Area (6 or more semester hours selected from the following courses)

Administration	Counseling
Curriculum	Early Childhood Education
Educational Foundation	Educational Technology
Elementary Education	Physical Education
Secondary Education	Special Education
Supervision	

VOCATIONAL SUPERVISOR CERTIFICATE

For the Professional Vocational Supervisor Certificate, the requirements are: a bachelor's degree, a valid Texas Teacher Certificate, three years of teaching experience in an approved vocational education program, and the courses listed below.

Vocational Education (18 semester hours)

VOED	5133	Vocational Analysis
VOED	5603	Organization and Administration
VOED	5703	Vocational-Technical Curriculum Development
VOED	5803	Supervision of Vocational Programs
VOED	5903	Planning and Organizing Vocational Programs
VOED	5983	History and Principles of Vocational Education

General Supervision and Supportive Courses (9 semester hours)

SUPV	5113	Principles of Supervision
SUPV	5213	The School Supervisor
SUPV	5513	Supervision Practicum

Resource Area (3 semester hours)

EDFN	5123	Socio-Cultural Issues in Education
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REQUIREMENTS FOR THE PROVISIONAL CERTIFICATE ENDORSEMENTS

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

MSSE AND GOALS

The College of Engineering and Architecture offers a program of study leading to a Master of Science in Engineering (MSSE) degree. The graduate program is designed to enhance the student's research capabilities and to make the student competitive in the professional practice of engineering. It is the concern of the intellectual, scholarly and professional development of the individual producing technological leaders and creative engineers who are devoted to the discovery, development, and refinement of knowledge and techniques associated with the various engineering disciplines. Each MSSE candidate is expected to have demonstrated the highest degree of professional and technical standards. The College of Engineering and Architecture provides the facilities in support of its graduate programs.

College of Engineering and Architecture

ADMINISTRATIVE OFFICER

John Fuller, *Interim Dean*

ADMINISTRATIVE STAFF

Shield Lin, *Associate Dean*

FACULTY

John Okyere Attia, *Electrical Engineering*
 Paul O. Biney, *Mechanical Engineering*
 Ronald Boyd, *Mechanical Engineering*
 Ing Chang, *Mechanical Engineering*
 Yi-ming Chen, *Chemical Engineering*
 Thomas Fogarty, *Electrical Engineering*
 Kamel Fotouh, *Chemical Engineering*
 John Fuller, *Electrical Engineering*
 Jorge Gabitto, *Chemical Engineering*
 Youness Jaavidaan, *Chemical Engineering*
 Siew Koay, *Electrical Engineering*
 Anil A. Kumar, *Electrical Engineering*
 Shield Lin, *Mechanical Engineering*
 Houshang Masudi, *Mechanical Engineering*
 James O. Morgan, *Mechanical Engineering*
 Ramalingam Radhakrishnan, *Civil Engineering*
 K.M.A. Rahman, *Civil Engineering*
 Charlie L. Tolliver, *Electrical Engineering*
 Sheng-Guo Wang, *Electrical Engineering*
 Richard Wilkins, *Electrical Engineering*
 Hsiang Yeh, *Civil Engineering*
 Jianren Zhou, *Mechanical Engineering*

PURPOSE AND GOALS

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

Chemical Engineering - Supporting Facilities

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

Civil Engineering - Supporting Facilities

The Civil Engineering Department has a Dynamic and cyclic loading equipment laboratory, Materials testing laboratory, and Environmental laboratory.

Electrical Engineering - Supporting Facilities

Research facilities are available in the Advanced Solid State Laboratory, Class 100 clean room, Electrical, Environmental and Testing Laboratory, the Power, Digital Circuit, and Electronic Laboratories, and The Center for Applied Radiation Research (CARR).

Mechanical Engineering - Supporting Facilities

Research facilities are available in the Thermal Science Research Center, the Robotics Laboratory, the general purpose laboratories, and the Future Aerospace Science and Technology Center (FAST) on Lightweight Structural Materials and Processing.

ADMISSION TO PROGRAM

In addition to the general admission requirements to the graduate school, the following requirements must be satisfied by the candidates seeking admission to the graduate program in the College of Engineering and Architecture.

1. Have an undergraduate engineering degree from an ABET (or equivalent) accredited program.
2. Have a cumulative Grade Point Average (GPA) of not less than 3.00/4.00 or 3.75/5.0 or have a cumulative Grade Point Average (GPA) of not less than 2.75/4.0 and a quantitative percentile on the GRE equal to or better than -25 *GPA+125.

STUDENT ADMISSION STATUS

1. Unconditional Admittance
Satisfy both of the above admission standards
2. Provisional Admittance
Satisfy one of the above admission standards
3. Rejection
Satisfy none of the above admission standards

Provisional students must petition to the Dean of Engineering and Architecture for full status to the graduate program within the first 12 graduate credit hours earned. 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.

PROGRAM REQUIREMENTS

The Master of Science Degree in Engineering is awarded in four areas of concentration: Chemical Engineering, Civil Engineering, Electrical Engineering, and Mechanical Engineering, each with an option of a thesis or non-thesis degree plan. The thesis option requires 32 semester hours including 6 semester hours for the thesis and 2 semester hours for seminars, while the non-thesis option requires 35 semester hours including 3 semester hours for a major project and 2 semester hours for seminars. Each option includes 12 credit hours of graduate courses in general engineering with the remaining hours to be determined by the student and his advisory committee during the first semester of unconditional acceptance to the graduate program.

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

MASTER OF SCIENCE IN ENGINEERING CURRICULUM

I. Thesis Option

General Requirements

GNEG	5086	Thesis	6 SCH
GNEG	5010	Seminar I	0 SCH
GNEG	5020	Seminar II	0 SCH

General Engineering Requirements 12 SCH

GNEG	5063	Engineering Analysis I
GNEG	5073	Engineering Analysis II
GNEG	5033	Engineering Probability & Statistics
GNEG	5133	Numerical Methods in Engineering
GNEG	5023	Engineering Operations Research
GNEG	5043	Safety Engineering and Ergonomics
GNEG	5053	Engineering Instrumentation and Information Systems
GNEG	5193	Special Topics

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

Technical Electives 12 SCH

Consent of student's academic advisor. The description of courses in the college is included in the catalog.

Total Degree Requirements 30 SCH

II. Non-Thesis Option**General Requirements**

Independent Study or Graduate Internship	3 SCH
GNEG 5010 Seminar I	0 SCH
GNEG 5020 Seminar II	0 SCH

General Engineering Requirements 12 SCH

GNEG 5063	Engineering Analysis I
GNEG 5073	Engineering Analysis II
GNEG 5033	Engineering Probability & Statistics
GNEG 5133	Numerical Methods in Engineering
GNEG 5023	Engineering Operations Research
GNEG 5043	Safety Engineering and Ergonomics
GNEG 5053	Engineering Instrumentation and Information Systems
GNEG 5193	Special Topics

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

Technical Electives 18 SCH

Consent of student's academic advisor. The description of courses in the college is included in the catalog.

Total Degree Requirements 33 SCH**COURSE DESCRIPTIONS****Civil Engineering (CVEG)**

5123. Structural Dynamics. (3-0) Credit 3. Single and multidegree 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.

5133. Advanced Mechanics of Materials. (3-0) Credit 3. Theory of stress and strain, stress-strain relationships. Deformations and instability by analytical methods; stability of columns, bars and frames; inelastic bucking, torsional bucking; and binding and bucking of thin plates and shells.

5143. Hazardous Waste Management. (3-0) Credit 3. Environmental legislation, regulations concerning the identification, storage, transport, and disposal of hazardous wastes. Treatment processes; control mechanisms; land-fill technology and disposal practices.

5153. Biological Wastewater Treatment. (3-0) Credit 3. 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.

5173. Finite Element Analysis. (3-0) Credit 3. 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.

5223. Advanced Structural Design. (3-0) Credit 3. Natural hazards and associated load effects on structures; analysis of structures and damage caused by wind storms, earthquakes and ocean waves; design of buildings and offshore structures.

5233. Design of Highway Bridges. (3-0) Credit 3. Types of bridges; moving loads; AASHTO codes and design standards; design of reinforced concrete and steel girder bridges; suspension and cable stayed bridges; design of abutments and piers; rehabilitation of bridges.

5993. Independent Study. (0-0) Credit 3. Readings, research, and/or field work on selected topics. Prerequisite: consent of advisor.

Chemical Engineering (CHEG)

5013. Advanced Reaction Engineering. (3-0) Credit 3. 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.

5023. Microelectronics Materials. (3-0) Credit 3. Heterogenous chemical reactions. Chemical engineering aspects of materials fabrication and processing. CVD thin film deposition techniques. Preparation of superconducting powders. Composites. Modeling and practical applications.

5033. Environmental Processes. (3-0) Credit 3. Fundamentals of environmental engineering, chemistry, physical-chemistry and transport properties. Energy and mass balances. Reactions and reactors. Biological processes. Bioremediation.

5043. Remediation Technologies. (3-0) Credit 3. 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.

Electrical Engineering (ELEG)

5063. Advanced Semiconductor Devices. (3-0) Credit 3. Development of mathematical analysis and systematic modeling of solid state devices; relationship of measurable electrical and optical characteristics to structural and material properties of solid devices: p-n junctions, bipolar and unipolar devices, MOSFETs, IMPATT diodes; utilization of these models in IC design consideration; radiation effects.

- 5073. Statistical Communication Theory.** (3-0) Credit 3. Concepts of probability and random processes necessary for advanced study of communications, stochastic control and other electrical engineering problems involving uncertainty; coding of information over a noisy channel; inclusion of additive and multiplicative gaussian channels; limits on rates at which information can be coded and transmitted over noisy channels; application to elementary detection and estimation problems.
- 5083. Advanced Digital Signal Processing.** (3-0) Credit 3. Selected topics in Digital signal processing such as Digital Speech Processing, Multidimensional Digital Signal Processing, Spectrum Estimation and Error Analysis.
- 5153. Engineering Solid State Theory.** (3-0) Credit 3. Quantum theory applied to electronic, mechanical, and chemical properties of perfect crystals. Theory will be related to spectroscopic and diffraction experiments. Imperfections in crystal and glassy substances.
- 5163. Integrated Digital Electronics.** (3-0) Credit 3. Impact of large-scale integration and VLSI on digital and application is discussed. Special emphasis is given to microprocesses and memory devices; and information theory and the possibility of artificial intelligence and studies.
- 5173. VLSI Design.** (3-0) Credit 3. MOS devices, circuits and digital logics; layout methods; CAD tools for MOSFET and Bipolar ICs; circuit simulation; timing considerations; layout and timing effects. Prerequisites: ELEG 4043, ELEG 4303.
- 5263. Integrated Circuit Engineering.** (3-0) Credit 3. Physics and devices and process for high density integrated circuits, CMOS technology, fabrication technology, process and device simulation using SUPREM and PISCES, integrated circuits mask layout, inverters, buffers, logic circuits, and clocking.
- 5993. Independent Study.** (3-0) Credit 3. Reading, research, and/or field work on selected topics. Prerequisite: consent of advisor.

General Engineering (GNEG)

- 5010. Research Seminar.** (1-0) Credit 0. 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.
- 5020. Research Seminar.** (1-0) Credit 0. 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.
- 5023. Engineering Operations Research.** (3-0) Credit 3. An introduction to quantitative modeling and optimization; linear and dynamic programming; queueing theory; inventory modeling; critical path systems; network flow modeling, and technological forecasting.

- 5033. Engineering Probability and Statistics.** (3-0) Credit 3. Theory of permutations, combinations; statistical principles of analysis of random data probability as a basis of engineering design.
- 5043. Safety Engineering and Ergonomics.** (3-0) Credit 3. Engineering Concerns of Public Safety, Occupation Safety and Product Safety. Applications of engineering principles to the design and manufacture of safety products and systems. Study of Safety relationships to product reliability, human factor and quality assurance. Use of various analytical techniques, including failure analysis, fault-tree analysis and risk assessments. Study of Occupational Safety and Health Aids and similar legal codes.
- 5053. Engineering Instrumentation and Information Systems.** (3-0) Credit 3. Transducer theory and operations; operational amplifiers and feedback control in analog systems; A-D converters for digital systems information processing retrieval, and management.
- 5063. Engineering Analysis I.** (3-0) Credit 3. Boundary value problems in various engineering disciplines using Maxwell's equations and nonlinear partial differential equations.
- 5073. Engineering Analysis II.** (3-0) Credit 3. Complex variable theory in engineering applications using techniques, including conformal mapping, control systems, and signal processing.
- 5133. Engineering Numerical Methods.** (3-0) Credit 3. Numerical methods in engineering includes 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.
- 5086. Thesis.** (0-0) Credit 3. 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.
- 5193. Special Topics.** (3-0) Credit 3. 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.
- 5203. Graduate Internship.** (0-0) Credit 3. 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.

Mechanical Engineering (MCEG)

- 5023. Advanced Thermodynamics.** (3-0) Credit 3. 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.
- 5123. Robotics.** (3-0) Credit 3. Topics in robotics covering configuration (forward and reverse) kinematics, motion kinematics, force/torque relations, trajectory planning, dynamics and position control.
- 5143. Heat, Mass, Momentum Transfer.** (3-0) Credit 3. The basic laws applied to the analysis of heat transfer, mass transfer, and momentum transfer in boundary layer flow are studied. Selected important applications are analyzed.
- 5153. Conduction Problems in Engineering.** (3-0) Credit 3. An advanced study in molecular heat transfer (conduction includes: (1) a development of the unified governing and auxiliary equations from principles of thermodynamics, (2) an establishment of a unique formulation approach for thermal engineering problems, and (3) detailed analytical solutions of one, two and three-dimensional conduction problems. Elements of inverse conduction will be introduced.
- 5163. Advanced Engineering Fluid Dynamics.** (3-0) Credit 3. A Comprehensive study of fluid mechanics and dynamics is considered. This includes Potential flow, Stokes flow, Oseen flow, other inviscid flow, Eckman Row, and other viscous flows such as Boundary Layer Analysis. An introduction to perturbation to theory will also be given.
- 5183. Computer Integrated Manufacturing.** (3-0) Credit 3. A total integration of manufacturing, management, strategic planning, finance, and the effective use of computer technology in the control of the production process.
- 5253. Advanced Engineering Materials.** (3-0) Credit 3. 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.
- 5253. Airbreathing Propulsion.** (3-0) Credit 3. Advanced theory of turbojet, variable cycle engines, by-pass airbreathing propulsion systems. Theory and design of inlets, compressors, burners and turbines. Basis of hypersonic airbreathing propulsion systems.
- 5333. Computational Fluid Dynamics.** (3-0) Credit 3. 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.
- 5993. Independent Study.** (0-0) Credit 3. Reading, research, and/or field work on selected topics. Prerequisite: consent of advisor.

Department of Industrial Technology

FACULTY

Ambrose D. Adams, *Head, Industrial Technology*

DEGREE AND CERTIFICATE PROGRAMS

The Department of Industrial Technology offers graduate coursework which may be applied to a master's degree program in education with a concentration in Industrial Education. Students seeking this option should apply for admission to the Graduate School. The department also offers courses required for endorsement as a vocational counselor and certification as a vocational supervisor and vocational-industrial teacher/coordinator.

The degree program is for graduate students employed in the field of education. However, the program has nine semester hours of electives. These elective courses may be taken in an area of the student's choice with the advisement of the department head.

PROGRAM REQUIREMENTS - M.Ed Degree with a Concentration in Industrial Education (36 semester hours)

Common Core (12 semester hours)

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

Program Concentration - Industrial Technology (12 semester hours)

INED	5803	Practicum in Industrial Education or INED 5603, Problems
VOED	5703	Vocational-Technical Curriculum Development
VOED	5983	History and Principles of Vocational Education
VOED	5803	Supervision of Vocational Programs
VOED	5603	Organization and Administration of Vocational Programs
VOED	5903	Planning and Organizing Program of Vocational Guidance
VOED	5133	Vocational Research and Analysis

Resources/Research (3 semester hours)

EDFN	5923	Masters Seminar
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Electives (9 semester hours)

Electives may be selected from courses in the concentration or some other area to be selected by the student.

VOCATIONAL COUNSELOR ENDORSEMENT

For the Professional Vocational Education Counselor Endorsement issued by the Texas Education Agency, requirements are: a bachelor's degree, a valid Professional Counselor Certificate, 12 semester hours of specified vocational guidance courses, and three years of teaching experience.

Required Courses (12 semester hours of vocational guidance courses)

VOED	5103	Placement and Follow-up
VOED	5403	Occupational and Vocational Education
VOED	5903	Planning and Organization
VOED	5983	History and Principles

VOCATIONAL SUPERVISOR CERTIFICATE (30 semester hours)

For the Professional Vocational Supervisor Certificate, the requirements are: a bachelor's degree, a valid Texas Teacher Certificate, three years of teaching experience in an approved vocational education program, and the courses listed below:

Vocational Education (18 semester hours)

VOED	5133	Vocational Analysis
VOED	5603	Organization and Administration
VOED	5703	Vocational-Technical Curriculum Development
VOED	5803	Supervision of Vocational Programs
VOED	5903	Planning and Organizing Vocational Programs
VOED	5983	History and Principles of Vocational Education

General Supervision and Supportive Courses (9 semester hours)

SUPV	5213	The School Supervisor
SUPV	5513	Supervision Practicum
SUPV	5113	Principles of Supervision

Resource Area

EDFN	5123	Socio-Cultural Issues In Education
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VOCATIONAL INDUSTRIAL TEACHER-COORDINATOR

This program is designed to meet the Texas Education Agency (TEA) requirements for Vocational Industrial Teacher-Coordinators. Persons seeking their certification must have an earned degree from an approved college or university, two years of experience in industry, and must have been selected as a teacher coordinator in a secondary school program.

Courses required for Certification as a Vocational Industrial Teacher-Coordinator are listed below:

Courses	Hours	
VOED 4103	Instructional Material	3
VOED 4203	Instructional Methods	3
VOED 5753	Selection, Placement and Follow-up	3
VOED 4803	Human Relations	3
VOED 4603	Aims and Objectives	3
VOED 5933	Problems	3

Total Hours Required: 18

COURSE DESCRIPTIONS

Vocational Education (VOED)

5043. Methods and Media in Teaching. (3-0) Credit 3. Overview of the various media used to improve instruction, with methods for using audiovisual materials effectively in teaching vocational subjects. General production techniques are emphasized.

5103. Placement and Follow-Up. (3-0) Credit 3. 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.

5133. Vocational Analysis. (3-0) Credit 3. A study of the methods and techniques of collecting, evaluating, and disseminating statistical information of a vocational nature, including identification and selection of vocational students, manpower needs and opportunities.

5203. Problems in Career Education. (3-0) Credit 3. A study of problems in the field of Career and Technology Education. Research activities in a selected problem area. A written report is required. Prerequisite: Advisor approval.

5303. Practicum in Technology. (3-0) Credit 3. A study of programs that arise through the merging of technical experiences with theoretical and concepts. Prerequisite: Advisor approval technological.

5403. Occupational and Vocational Education. (3-0) Credit 3. Methods of collecting, evaluating, cataloging and disseminating occupational and vocational education information.

5603. Organization and Administration. (3-0) Credit 3. 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.

- 5703. Vocational-Technical Curriculum Development.** (3-0) Credit 3. Techniques of vocational-technical curriculum development based on an occupational analysis. How to develop educational specifications, to design classrooms and shop/laboratories, and to select the equipment required for a given curriculum.
- 5753. Selection, Placement and Follow-Up.** (3-0) Credit 3. A study of factors which affect selection and placement of students on industrial work sites. Involves establishing objectives, counseling techniques, advisements, cooperative work site agreements, and job placements.
- 5803. Supervision of Vocational Programs.** (3-0) Credit 3. A study of the organization, administration and supervision of curriculum and instruction in the public schools.
- 5903. Planning and Organizing.** (3-0) Credit 3. 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.
- 5933. Problems.** (3-0) Credit 3. 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.
- 5983. History and Principles.** (3-0) Credit 3. 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.

Officers of Graduate Instruction

- ATTIA, JOHN O.** (1985) Associate Professor, Electrical Engineering
 B.S.E.E., University of Science & Technology, Ghana, 1974
 M.A., University of Toronto, 1978
 Ph.D., University of Houston, 1984
- BAH, ABOUDAYLE**, (1994) Assistant Professor, Sociology and Social Work
 B.A., Gamal Abdel Nasser Polytechnique, 1977
 M.A., Gama Abdel Nasser Polytechnique, 1979
 M.S., University of Missouri-Columbia, 1987
 Ph.D., University of Missouri-Columbia, 1993
- BAILEY, MARTHA**, (1977) Associate Professor, Curriculum and Instruction
 B.A., Southern University, 1972
 M.A., Southern University, 1973
 Ed.D., University of Houston, 1977
- BALLARD, HENRY H.**, (1982) Associate Professor, Chemistry
 B.S., Texas College, 1965
 Texas Christian University
- BEAL, JANICE M.**, (1991) Assistant Professor, Psychology, School Services
 B.A., University of St. Thomas, 1983
 M.A., Texas Southern University, 1985
 Ed.D., Texas Southern University, 1991
- BENTLEY, CLEO L.**, (1982) Professor, Physics
 B.S., Howard University, 1968
 M.S., Howard University, 1972
 Ph.D., Howard University, 1974
- BINEY, PAUL O.** (1985) Associate Professor, Mechanical Engineering
 B.S., University of Science & Technology (1976)
 M.S., Oklahoma State University, 1980
 Ph.D., University of Houston (1987)
- BOOKER, CLARISSA G.**, (1969) Professor, Reading
 Curriculum and Instruction
 B.S., Prairie View A&M University, 1968
 M.A., University of Northern Colorado, 1969
 Ed.D., University of Houston, 1977
- BOSS-VICTORIA, RENA G.**, (1984) Assistant Professor, Health
 and Human Performance
 B.S., St. Thomas University, 1971
 M.S., Texas Woman's University, 1978
 M.P.H., equiv., Univ. of Texas at Houston, 1983
 Dr.P.H., University of Texas School of Public Health, 1992
- BOYD, RONALD**, (1983) Professor, Mechanical Engineering
 B.S., Tuskegee Institute, 1968
 M.S., University of New Mexico 1970
 Ph.D., University of Michigan, 1976
- BOYD-BROWN, LENA**, (1991) Associate Professor, History
 B.A., Xavier University, 1958
 M.A., Howard University, 1960
 Ed.D., Rutgers University, 1979

- BRIGGS, RONALD S., (1993) Associate Professor, Social Work
 B.S., Prairie View A&M University, 1969
 M.S.W., Atlanta University, 1975
 D.S.W. Howard University, 1984
- BROWN, GEORGE E., (1975) Associate Professor, Biology
 B.S., Prairie View A&M University, 1960
 M.S., University of Florida, 1972
 Ph.D., University of Florida, 1976
- BRYANT, MILTON R., (1986) Distinguished Professor, Management
 B.S., Florida Southern College, 1965
 M. Engr., Texas A&M University, 1968
 Ph.D., Texas A&M University, 1973
 and Marketing
- BUTLER, DOUGLAS M. (1994) Assistant Professor, Curriculum and Instruction
 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
- CARSON-ISABELLE, LAURA (1995) Assistant Professor, Chemistry
 B.S., Alcorn State University, 1986
 M.S., Prairie View A&M University, 1988
 Ph.D., University Akron, 1994
- CARTER, PURVIS M., (1956) Professor, Social & Political Sciences
 A.B., Tillotson College, 1948,
 M.A., Howard University, 1950
 Ph.D., University of Colorado, 1970
- CARTY, ANTOINE F., (1993) Assistant Professor, Chemistry
 B.A., Fisk University, 1978
 M.A., Fisk University, 1979
 M.S., Howard University, 1986
 Ph.D., Howard University, 1989
- CHANG, ING, (1970) Associate Professor, Mechanical Engineering
 B.S., National Taiwan University, 1961
 M.S., Rice University, 1965
 Ph.D., Rice University, 1969
- CHAPMAN, WILLIAM H., (1966) Associate Professor, English & Foreign
 B.A., North Carolina A&T University, 1959
 M.A., University of Iowa, 1966
 Languages
- CHATHA, DILJIT, (1987) Associate Professor, English & Foreign
 B.A., Punjab University, 1960
 M.A., Jodhpur University, 1963
 M.A., Texas Christian University, 1975
 Ph.D., Texas Woman's University, 1984
 Languages
- CHEN, YI-MING, (1992) Assistant Professor, Chemical Engineering
 B.E., Zhejiang University, 1982
 M.S., Kansas State University, 1986
 M.S., Kansas State University, 1987
 Ph.D., Kansas State University, 1991
- CHIZARI, MOHAMMAD, (1986) Assistant Professor, Management
 B.B.A., Tehran University, 1976
 M.B.A., North Texas State University 1978
 Ph.D., North Texas State University, 1983
 and Marketing

- CLARK, JOAN B., (1993) Associate Professor, Curriculum and Instruction
 B.S., University of Pittsburgh, 1976
 M.Ed., University of Pittsburgh, 1977
 Ph.D., University of Pittsburgh, 1986
- CLARK, ROSS D., (1972) Associate Professor, Secondary Education
 B.S., Texas Tech University, 1960
 M.A., Sul Ross University, 1965
- COLE, LARRY L., (1972) Associate Professor, Chemistry
 B.S., Texas Southern University, 1966
 Ph.D., University of Houston, 1971
- COLEMAN, LEE R., (1976) Instructor, Counselor Education School Services
 B.S., Prairie View A&M University, 1967
 M.Ed., Prairie View A&M University, 1973
- DANIELS, TROY L., (1991) Associate Professor, Human Sciences/
 B.S., Freed-Hardeman College, 1979
 M.E., Mississippi State, 1981
 Ph.D., Oklahoma State University, 1989
- DAVIES, AROUNA R., (1986) Associate Professor, Mathematics
 B.Sc., Durham University, England, 1969
 M.Sc., London University, England, 1975
 Graduate Diploma in Education, University of London, 1975
 Ph.D., New Mexico State University, 1986
- DAVIS, OLLIE, (1989) Associate Professor, Curriculum and Instruction
 B.A., University of Houston, 1974
 M.S., Texas Southern University, 1976
 Ed.D., University of Houston, 1988
- DEAN, W. MICHAEL (1994) Assistant Professor, Health
 B.S., University of Houston, 1979
 M.Ed., University of Houston, 1986
 Ph.D., Texas A&M University, 1993
- DEBNATH, SUKUMAR C., (1988) Associate Professor, Management and
 B.Com., University of Chittagong, 1975
 M.Com., University of Dacca, 1976
 M.B.A., University of Southern Mississippi, 1983
 D.B.A., Mississippi State University, 1989
- DOCTOR, VASANT M., (1967) Professor, Chemistry
 B.S., Royal Institute of Science, 1946
 M.S., University of Wisconsin, 1951
 Ph.D., Texas A&M University, 1953
- EDWARDS, MARY, (1990) Assistant Professor, Curriculum and Instruction
 B.S., Texas A&M University, 1980
 M.S., Texas A&M University, 1985
 Ed.D., Texas A&M University, 1991

OFFICERS OF GRADUATE INSTRUCTION

- EILAND, MILLARD F., (1968) Professor, Communications
 B.A., Baylor University, 1955
 B.D., Southern Baptist Theological Seminary, 1959
 Th.M., Southern Baptist Theological Seminary, 1961
 M.A., University of Houston, 1968
 Ph.D., Louisiana State University, 1974
- FOTOUH, KAMEL, (1984) Professor, Chemical Engineering
 B.S., Cairo University, 1965
 M. S. , Monash University, 1 972
 Ph.D., University of Oklahoma, 1976
- FULLER, JOHN H., (1977) Professor, Electrical Engineering
 B.S.E.E., Prairie View A&M University, 1969
 M.S.E.E., University of Missouri, 1974
 Ph.D., University of Missouri, 1977
- GABITTO, JORGE F., (1991) Associate Professor, Chemical Engineering
 B.S., Buenos Aires University, Argentina, 1979
 Ph.D., Buenos Aires University, Argentina, 1983
- GREWAL, SURJIT, (1986) Associate Professor, Mechanical Engineering
 B.A., Punjab University, India, 1952
 B.S.M.E. Agra University India, 1956
 M.S.M.E . University of California, Berkeley, 1963
 Ph.D., University of Houston, 1972
- GRIFFIN, RICHARD W., (1991) Instructor, Agriculture
 B.S. North Carolina State, 1984
 M S. North Carolina State, 1986
 Ph.D., Texas A&M University, 1991
- HALEY, KENNETH L., (1987) Assistant Professor, English
 B. A. Prairie View A&M University, 1984
 M.A., Texas A&M University, 1986
 Ph.D., Texas A&M University, 1992
- HAWKINS, FRANK T., (1965) Professor, Mathematics
 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 Illinois, 1975
- HEBERT, RUBY N. (1978) Professor, Music and Drama
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