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1984-86
GRADUATE
CATALOG

37

Prairie View A&M University

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UNIVERSITY SYSTEM

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Provisions of This Catalog

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

While every effort is made to assure accuracy and up-to-dateness, Prairie View A&M University does not assume responsibility for any misrepresentation which might arise through error in the preparation of this or any other of its catalogs, or through failure to give notice of changes in its requirements, policies, tuition and fees, course offerings, and other matters affecting students or applicants.

**BULLETIN OF
PRAIRIE VIEW A & M UNIVERSITY
PRAIRIE VIEW, TEXAS**

Established by the Texas State Legislature in the year 1876

VOLUME 73

JULY 1984

NO. 1

**THE ONE HUNDRED AND THIRD GENERAL CATALOG
ISSUED WITH
ANNOUNCEMENTS FOR THE ACADEMIC YEARS
1984 - 1986**



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1984-1986
Grad.

GRADUATE CATALOG

**PRAIRIE VIEW A&M UNIVERSITY IS PART OF THE TEXAS A&M
UNIVERSITY SYSTEM AND IS ACCREDITED BY THE SOUTHERN
ASSOCIATION OF COLLEGES AND SCHOOLS.**

Memberships

- American Association of Colleges For Teacher Education
- American Association of Collegiate Registrars and Admissions Officers
- American College Theatre Festival
- American Council on Education
- American Home Economics Association
- American Society for Engineering Education
- American Theatre Association
- Association of Administrators of Home Economics
- Association of American Colleges
- Association of Colleges and Schools of Education in State Universities and Land Grant Colleges and Affiliated Private Universities
- Association of Collegiate Schools of Architecture
- Association of NROTC Colleges
- Association of Social Science Teachers
- Association of State University and Land-Grant Colleges
- Association of Texas Colleges and Universities
- Association of Texas Graduate Schools
- Central Association of College and University Business Officers
- College and University Personnel Association
- Conference of Southern Graduate Schools
- Council for Advancement and Support of Education
- Council of 1890 Presidents
- Council of Presidents of the Public Senior Colleges and Universities of Texas
- Council on Social Work Education
- National Association of Collegiate Deans and Registrars
- National Association of Educational Buyers
- National Association of State Universities and Land-Grant Colleges
- National Association of Student Financial Aid Administrators
- National Commission for Cooperative Education
- National Commission on Accrediting
- National Council for the Accreditation of Teacher Education
- National Council of Teachers of English
- National League of Nursing
- Southern Association of College and University Business Officers
- Southern Association of Colleges and Schools, Inc.
- Southern Association of Land-Grant Colleges and State Universities
- Southwest Theatre Conference
- Texas Association of Collegiate Registrars and Admission Officers
- Texas Association of State Senior College and University Business Officers
- Texas Association of Colleges For Teacher Education

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Academic Year Calendars: 1984-86

FALL 1984

| | |
|--|-----------------------------------|
| Residence Halls and Dining Hall Open | August 21, Tuesday |
| Orientation for New Students | August 21-22, Tuesday-Wednesday |
| Regular Registration | August 22-25, Wednesday-Saturday |
| Registration for Weekend and Off- Campus Classes | August 25, Saturday |
| Instruction Begins/Late Registration/Adding and Dropping with Fee Begins | August 27, Monday |
| Late Registration and Adding Courses Ends | September 1, Saturday |
| Labor Day (Holiday) | September 3, Monday |
| Withdrawal without Record Ends | September 10, Monday |
| Application for Fall Graduation Ends | October 1, Monday |
| Withdrawal from Courses with an Automatic Grade of "W" Ends/After This Date Student Will Receive "WP" or "WF" | October 12, Friday |
| Midsemester Examination Period | October 18-20, Thursday-Saturday |
| Midsemester Grades Due in Registrar's Office | October 23, Tuesday |
| Pre-registration for Spring Semester | November 12-17, Monday-Saturday |
| Thanksgiving (Holiday) | November 22-24, Thursday-Saturday |
| Instruction Resumes | November 26, Monday |
| Last Day to Withdraw from Any Course or Courses | December 3, Monday |
| Final Examination Period | December 10-15, Monday-Saturday |
| Semester Ends | December 15, Saturday |
| Final Grade Reports Due in Registrar's Office | December 17, Monday |

SPRING 1985

| | |
|--|--------------------------------|
| Residence Halls and Dining Hall Open | January 6, Sunday |
| Orientation for New Students | January 7-9, Monday-Wednesday |
| Regular Registration | January 10-11, Thursday-Friday |
| Registration for Weekend and Off- Campus Classes | January 12, Saturday |
| Instruction Begins/Late Registration/Adding and Dropping with Fee Begins | January 14, Monday |
| Late Registration and Adding Courses Ends | January 19, Saturday |

| | |
|---|---------------------------------|
| Birthday of Martin Luther King, Jr. (Holiday) | January 21, Monday |
| Withdrawal without Record Ends | January 28, Monday |
| Application for Spring Graduation Ends | February 1, Friday |
| Withdrawal from Courses with an Automatic Grade of "W" Ends/After This Date Student Will Receive "WP" or "WF" | March 2, Saturday |
| Midsemester Examination Period | March 7-9, Thursday-Saturday |
| Midsemester Grades Due in Registrar's Office | March 11, Monday |
| Spring Recess | March 11-16, Monday-Saturday |
| Instruction Resumes | March 18, Monday |
| Honors Convocation | March 27, Wednesday |
| Easter (Holiday) | April 5-6, Friday-Saturday |
| Instruction Resumes | April 8, Monday |
| Pre-registration for Fall Semester | April 10-13, Wednesday-Saturday |
| Last Day to Withdraw from Any Course or Courses | April 29, Monday |
| Final Examination Period for Candidates for Graduation | May 2-3, Thursday-Friday |
| Final Examination Period | May 6-11, Monday-Saturday |
| Semester Ends | May 11, Saturday |
| Commencement | May 12, Sunday |
| Final Grade Reports Due in Registrar's Office | May 14, Tuesday |

FIRST SUMMER TERM 1985

| | |
|--|--------------------------------|
| Registration | May 31-June 1, Friday-Saturday |
| Instruction Begins/Late Registration/Adding and Dropping with Fee Begins | June 3, Monday |
| Late Registration/Adding and Dropping Courses Ends | June 4, Tuesday |
| Application for Summer Graduation Ends | June 14, Friday |
| Independence Day (Holiday) | July 4, Thursday |
| Instruction Resumes | July 5, Friday |
| Final Examination Period | July 9-10, Tuesday-Wednesday |
| First Summer Term Ends | July 10, Wednesday |
| Final Grade Reports Due in Registrar's Office | July 11, Thursday |

SECOND SUMMER TERM 1985

| | |
|--|-----------------------------|
| Registration | July 12-13, Friday-Saturday |
| Instruction Begins/Late Registration/Adding and Dropping with Fee Begins | July 15, Monday |

| | |
|--|-------------------------------|
| Late Registration/Adding and Dropping Courses Ends | July 16, Tuesday |
| Final Examination for Candidates for Summer Graduation | August 12, Monday |
| Final Examination Period | August 16-17, Friday-Saturday |
| Second Summer Term Ends | August 17, Saturday |
| Commencement | August 18, Sunday |
| Final Grade Reports Due in Registrar's Office | August 19, Monday |

FALL 1985

| | |
|---|-----------------------------------|
| Residence Halls and Dining Hall Open | August 20, Tuesday |
| Orientation for New Students | August 20-21, Tuesday-Wednesday |
| Regular Registration | August 22-23, Thursday-Friday |
| Registration for Weekend and Off-Campus Classes | August 24, Saturday |
| Instruction Begins/Late Registration/Adding and Dropping with Fee Begins | August 26, Monday |
| Late Registration and Adding and Dropping Courses Ends | August 31, Saturday |
| Labor Day (Holiday) | September 2, Monday |
| Withdrawal without Record Ends | September 9, Monday |
| Application for Fall Graduation Ends | September 30, Monday |
| Withdrawal from Courses with an Automatic Grade of "W" Ends/After This Date Student Will Receive "'WP'" or "'WF'" | October 11, Friday |
| Midsemester Examination Period | October 17-19, Thursday-Saturday |
| Midsemester Grades Due in Registrar's Office | October 22, Tuesday |
| Pre-registration for Spring Semester | November 11-16, Monday-Saturday |
| Thanksgiving (Holiday) | November 28-30, Thursday-Saturday |
| Instruction Resumes | December 2, Monday |
| Last Day to Withdraw from Any Course or Courses | December 2, Monday |
| Final Examination Period | December 9-14, Monday-Saturday |
| Semester Ends | December 14, Saturday |
| Final Grade Reports Due in Registrar's Office | December 16, Monday |

SPRING 1986

| | |
|--------------------------------------|-------------------------------|
| Residence Halls and Dining Hall Open | January 5, Sunday |
| Orientation for New Students | January 6-8, Monday-Wednesday |

| | |
|---|--------------------------------|
| Regular Registration | January 9-10, Thursday-Friday |
| Registration for Weekend and Off-Campus Classes | January 11, Saturday |
| Instruction Begins/Late Registration/Adding and Dropping with Fee Begins | January 13, Monday |
| Late Registration and Adding Courses Ends | January 18, Saturday |
| Birthday of Martin Luther King, Jr. (Holiday) | January 20, Monday |
| Withdrawal without Record Ends | January 27, Monday |
| Application for Spring Graduation Ends | January 31, Friday |
| Withdrawal from Courses with an Automatic Grade of "W" Ends/After This Date Student Will Receive "WP" or "WF" | March 1, Saturday |
| Midsemester Examination Period | March 6-8, Thursday-Saturday |
| Midsemester Grades Due in Registrar's Office | March 10, Monday |
| Spring Recess | March 10-15, Monday-Saturday |
| Instruction Resumes | March 17, Monday |
| Easter (Holiday) | March 28-29, Friday-Saturday |
| Instruction Resumes | March 31, Monday |
| Honors Convocation | April 9, Wednesday |
| Pre-registration for Fall Semester | April 9-12, Wednesday-Saturday |
| Last Day to Withdraw from Any Course or Courses | April 28, Monday |
| Final Examination Period for Candidates for Graduation | May 1-2, Thursday-Friday |
| Final Examination Period | May 5-10, Monday-Saturday |
| Semester Ends | May 10, Saturday |
| Commencement | May 11, Sunday |
| Final Grade Reports Due in Registrar's Office | May 13, Tuesday |

FIRST SUMMER TERM 1986

| | |
|--|-----------------------------|
| Registration | May 30-31, Friday-Saturday |
| Instruction Begins/Late Registration/Adding and Dropping with Fee Begins | June 2, Monday |
| Late Registration/Adding and Dropping Courses Ends | June 3, Tuesday |
| Application for Summer Graduation Ends | June 13, Friday |
| Independence Day (Holiday) | July 4, Friday |
| Instruction Resumes | July 5, Saturday |
| Final Examination Period | July 8-9, Tuesday-Wednesday |
| First Summer Term Ends | July 9, Wednesday |

Final Grade Reports Due in Registrar's Office July 10, Thursday

SECOND SUMMER TERM 1986

Registration July 11-12, Friday-Saturday

Instruction Begins/Late Registration/Adding and Dropping with Fee Begins July 14, Monday

Late Registration/Adding and Dropping Courses Ends July 15, Tuesday

Final Examination for Candidates for Summer Graduation August 11, Monday

Final Examination Period August 15-16, Friday-Saturday

Second Summer Term Ends August 16, Saturday

Commencement August 17, Sunday

Final Grade Reports Due in Registrar's Office August 18, Monday

Prairie View A&M University

ADMINISTRATION

| | |
|---|-------------------------|
| President..... | Percy A. Pierre |
| Executive Vice President for Academic Affairs..... | Thomas J. Cleaver |
| Executive Vice President for Administration | Herbert N. Watkins |
| Vice President for Development and University Relations..... | Johnny R. Hill |
| Associate Vice President for Academic Services and Planning..... | Elaine P. Adams |
| Dean of Benjamin Banneker College | Ronald J. Sheehy |
| Dean, College of Agriculture | Theodore R. Freeman |
| Dean, College of Arts and Sciences | Edward W. Martin |
| Dean, College of Business | Bernice R. Rollins |
| Acting Dean, College of Education | Louis Aikens |
| Dean, College of Engineering..... | Wayne D. Perry |
| Acting Dean, College of Engineering Technology ... | Harold S. Bonner |
| Dean, College of Home Economics | Flossie M. Byrd |
| Dean, College of Nursing..... | Jeannette O. Poindexter |
| Dean of the Graduate School..... | Arthur C. Washington |
| Dean of Students..... | John D. Harris |
| Assistant to the President | Frederick V. Roberts |

ADMINISTRATIVE OFFICES

| | |
|---------------------------------------|-----------------------|
| Admissions..... | George H. Stafford |
| Alumni Affairs..... | Pauline D. Bonner |
| Army ROTC..... | Charles Anderson |
| Athletics | Brutus N. Jackson |
| Banks (W. R.) Library | Donald G. Sweet |
| Campus Safety and Security..... | Willie Burditt |
| Career Education and Placement | Brutus N. Jackson |
| Computer Services..... | Norman J. Hunter |
| Controller..... | Charles H. White |
| Cooperative Extension Services | Hoover Carden |
| Counseling Services | Bessie Smith |
| Facilities (Houston)..... | Alvin I. Thomas |
| Financial Aid | A. D. James, Jr. |
| Information and Publications | Ed Shannon |
| Management and Support Services | Sandra B. Davis |
| Navy ROTC..... | Charles M. Tompkins |
| Owens-Franklin Health Center..... | Ruth N. Smith |
| Personnel..... | Lincoln M. Catchings |
| Physical Plant Administration | (Vacant) |
| Registrar | Erskine R. Vanderbilt |
| Student Activities | W. Van Johnson |

The Texas A&M University System

BOARD OF REGENTS

| | |
|--|------------------|
| H. R. Bright..... | Dallas |
| Chairman | |
| William A. McKenzie..... | Dallas |
| Vice Chairman | |
| John B. Coleman..... | Houston |
| David G. Eller..... | Houston |
| Norman N. Moser..... | Dekalb |
| Joe H. Reynolds..... | Houston |
| Joe C. Richardson, Jr..... | Amarillo |
| Clyde H. Wells..... | Granbury |
| Royce E. Wisenbaker..... | Tyler |
| Executive Secretary to the Board of Regents..... | Bill C. Presnal |
| Secretary of the Board of Regents..... | Robert G. Cherry |

SYSTEM ADMINISTRATION

| | |
|--|--------------------|
| Chancellor..... | Arthur G. Hansen |
| Deputy Chancellor..... | Perry L. Adkisson |
| Associate Deputy Chancellor for Academic Programs and Planning..... | Charles Pinnell |
| Vice Chancellor and System Comptroller..... | William Wasson |
| Vice Chancellor for Budgets and Human Resources..... | W. Cliff Lancaster |
| Vice Chancellor for Facilities Planning and Construction..... | Wesley E. Peel |
| Vice Chancellor for Research Park and Corporate Relations..... | Mark L. Money |
| Vice Chancellor for State Affairs..... | Bill C. Presnal |
| Executive Assistant to the Chancellor..... | Ivory V. Nelson |

General Information

Prairie View A&M University is a public coeducational institution of higher education. It is part of the Texas A&M University System and is a land-grant university authorized under the Morrill Acts of 1862 and 1890. The main campus is located approximately forty miles northwest of Houston, Texas and one mile north of Texas Highway 290 on Farm Road 1098 in Waller County, Texas. A College of Nursing branch facility is located at 6436 Fannin Street in the Texas Medical Center complex in Houston.

The University is organized for instruction into ten major academic divisions:

- The Benjamin Banneker College
- The College of Agriculture
- The College of Arts and Sciences
- The College of Business
- The College of Education
- The College of Engineering
- The College of Engineering Technology
- The College of Home Economics
- The College of Nursing
- The Graduate School

MISSION AND PURPOSES

The mission and purposes of Prairie View A&M University are derived from State and Federal statutes providing for its establishment and support. It is designated as a general purpose institution offering a broad range of academic, research, public service and international affairs programs. As a land-grant university, Prairie View A&M is especially committed to providing continuing training opportunities for students in agriculture, home economics, engineering and related branches of learning.

In addition to these general purposes, Prairie View A&M is charged with responsibility to provide programs appropriate for special minority student populations and to assist in the economic and cultural development of small and medium sized communities and business enterprises. Academic programs offered by the University lead to baccalaureate and master's degrees in the arts, sciences and a variety of professional fields of specialization. Research and service programs include units of the Texas Agricultural Experiment Station, the Texas Engineering Experiment Station and the Texas Cooperative Extension Service. A unique recent addition to the research programs is the International Dairy Goat Research Center operated by the College of Agriculture. Other smaller research and service projects are located throughout the University.

Prairie View A&M University is supported by the State of Texas and the Texas A&M University System.

GENERAL INFORMATION

HISTORY

Prairie View A&M University has a unique and intriguing political and cultural history which is deserving of attention and recognition. It is a study in and of survival under difficult and constantly changing circumstances which chronicle, in a way unmatched by any other source, 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 that those years of struggle have brought about.

Prairie View A&M University 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 14th, 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. Prairie View A&M College thus became the second oldest institution of higher education in the State of Texas.

A three-man commission, appointed to locate and 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 \$100.00 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, which had been 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. Anderson 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 sixty students. The A&M College Board of Directors, meeting in Hempstead on August 28th of that year, authorized the teaching of thirteen subjects on the elementary and secondary levels.

L. C. Anderson became principal of Prairie View A&M in 1885 and served for twelve 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 eleven instructors involved 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 were an academic hall, six cottages for teachers, a brick mechanics shop, and artesian wells.

In 1895, Edward L. Blackshear was elected Principal of the College, and he served until 1915. During his tenure, significant growth occurred in the curriculum and the physical plant. 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 enlargement of the curriculum. The Twenty-Seventh Legislature, in 1901, authorized the school to offer a four-year course of study which included the Academy and Normal School in four divisions: Education, Agriculture, Home Economics and Mechanical Arts. A diploma and a 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 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 as Principal Emeritus in August of 1947. 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 sixty cottages for faculty families.

The Senior Academy was discontinued in 1930 and the Division of Education was redesignated as 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 of Prairie View A&M on September 1, 1947. In 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 mechanical arts, engineering and the natural sciences connected therewith, to-

GENERAL INFORMATION

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

A new women's dormitory completed in September, 1950, was named for the late Dean of Women, Miss M. E. Suarez. A similar building for men, completed in 1952, was named for a 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 presidency of the College. Dr. Drew became ill shortly after taking office and was replaced briefly by Dr. Evans as Acting President.

In November of 1966, the Board of Directors elected Dr. Alvin I. Thomas as the third president of Prairie View A&M University. Dr. Thomas served in this position until his resignation in June of 1982. Major advances occurring during A. I. Thomas' administration included the establishment of the first Naval ROTC unit at Prairie View A&M in May of 1968. This was the first new Naval ROTC unit to be established in a 22-year period and the first ever at a predominantly Black institution.

As the centennial year of Prairie View A&M's existence approached, the Board of Regents of the newly-titled Texas A&M University System, at the request of President Thomas, appointed seventy-nine persons to comprise a Centennial Planning Council. The Council was charged with formulating a new master plan for Prairie View A&M for the decade of the 1970's. After sixteen months of deliberate and serious study, the Council's recommendations were published in a document titled "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 re-confirmed. The System Board of Regents, in the Fall of 1970, sold in excess of 13 million dollars in bonds for the construction of two new residence halls and a dining facility. The residence halls, accommodating 1500 students, were opened for occupancy in August, 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 a clinical nursing center for the PVA&MU 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.

The decade of the 1980s has thus far continued the tradition of dynamic and positive changes which have marked the 108-year history of Prairie View A&M University. From June of 1982 until January of 1983 Dr. Ivory Nelson served as Acting President of the University. In January of 1983, the Board of Regents appointed Dr. Percy A. Pierre as the fourth President of Prairie View A&M University. A system-wide Target 2000 Commission Report, with support and encouragement from the Chancellor and the Board of Regents and the guidance of President Pierre, set goals to elevate the status of Prairie View A&M University to new levels of distinction.

By May of 1984, a new Campus Master Plan had been completed to guide major new construction and renovation of campus facilities through the year 2000. Academic planning for the same period is focused on the development and continuation of programs that predict and respond to the new social, intellectual, political and technological challenges of the twenty-first century—such as the Benjamin Banneker College for academically motivated students in the applied sciences.

Prairie View A&M University, while accepting students without regard to race, color, religion or national origin, continues its commitment as a special purpose institution to assist capable but disadvantaged minority students in gaining access to the mainstream of opportunity available in these United States of America and the Free World.

Student Life

The primary purpose for students attending Prairie View A&M University must be to pursue an academic goal. The University is dedicated to that purpose. As a residential campus, however, the University is committed to providing an environment for both living and learning that is healthful, safe, socially constructive and orderly. Students are treated and expected to behave as adult citizens of a democratic community governed by local, state and federal laws as well as by Texas A&M University System and campus regulations. University students have established and maintained a long-standing tradition of high ideals and model behavior as members of the University and the local community. Individuals and groups are expected to continue that tradition and to behave in a manner that is respectful and protective of the physical, social and emotional well-being of other persons and groups. University rules and regulations are designed to encourage and enforce those standards. Students who fail to conform to these rules and regulations are subject to immediate dismissal or other appropriate disciplinary action.

DISCIPLINE AND GOVERNANCE

Administrative responsibility for organization, direction and governance of student life outside of the academic programs is assigned to the Office of the Dean of Students. The Dean of Students reports to the President of the University through the Executive Vice-President for Academic Affairs. Individual students and student organizations needing assistance or direction should consult with the Office of the Dean of Students for advisement or referral.

Student Governance. To the extent possible, campus student life regulations and governance procedures will be developed and recommended to the President of the University by the Student Government Association with advisement from the Dean of Students and the Executive Vice-President for Academic Affairs. Approved regulations are published annually in the Student Life Handbook.

Notice to Report to an Administrative Office. It is frequently necessary that a student be requested to report to an administrative office for a conference or other direct communication. The summons may be transmitted by letter, messenger, telephone, bulletin board or other means. A student who receives such a summons must report immediately and in preference to any and all other scheduled activity.

Hazing. State law provides that "any student of any State educational institution who commits the offense of hazing shall be fined not less than \$25.00 nor more than \$250.00 or shall be confined not less than ten days nor more than three months, or both."

"Day Student" Status. Regularly enrolled students who do not live in University residence halls are classified as "day students." Day student status is a privilege accorded to students who apply and meet one or more of the following conditions:

1. The student's permanent home address is within 60 miles of the campus.
2. The student has graduate student status.
3. The student is married and living with family within 60 miles of the campus.
4. The student is a junior or senior who cannot be housed in a residence hall because all spaces are filled.
5. The student is a veteran.
6. The student is involved in practice teaching, cooperative education or other approved off-campus academic program assignment.
7. The student is 23 or more years of age.

Students accorded day student status are prohibited from sleeping in residence halls without special permission from the Dean of Students. Students violating these rules may be charged the full cost of the room for the semester. All other rules of conduct apply to day students, whether on or off campus, and to other students who may be visiting in the living quarters of day students.

Vehicle Operation. Automobiles operated within campus limits must be operated in full compliance with 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. Vehicles must be registered within three days after initial entry. Visitor's Permits will be issued free of charge for periods of up to 72 hours by the University Security Office. Unregistered or illegally parked vehicles are subject to impoundment and fines.

Vehicles may be registered in person at the University Security Office or at the vehicle registration desk during regular academic registration. Fees for vehicle registration are published annually.

FEES

Registration and Student Fees

Registration at the University consists of the dual process 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 are paid to the Bursar's office.

Explanation of Required Fees

Fee amounts are subject to change without notice. Fee amounts listed below are those in effect for the Spring semester, 1984. Current fee schedules may be obtained from the Registrar or the Bursar.

Tuition. Texas resident students pay \$4.00 per semester credit hour, but not less than \$50 per academic semester and not less than \$25.00 per five or six week summer term. Non-Texas Residents pay \$40 per semester credit hour.

STUDENT LIFE

Student Services Fee. All students attending the University are required to pay \$7.50 per semester credit hour, not to exceed \$90 per semester. This fee covers student admission to athletic and other University-sponsored activities, subscription to the student newspaper and routine health care. The fee for each Summer Session will not exceed \$45.

Building Use Fee. All students are required to pay \$5.75 per credit hour for retirement of indebtedness on certain University buildings and facilities.

Room Rent. All students residing in University residence halls must pay the rent amount charged for the particular dormitory occupied.

Board. Students residing in University residence halls must participate in the University food service plan.

Laundry. Students residing in University residence halls must participate in the University laundry plan which provides a pre-determined number of laundered items per week.

Sales Tax. State sales tax is required to be paid by all students participating in the food service plan.

Incidental Fees

| | |
|--------------------------------------|---|
| Add/Drop Fee | \$6 per form |
| Applied Music Fee | \$12 per course |
| Laboratory Fees..... | \$2 to \$8 per course |
| Auditing Fee | \$10 per course |
| Bad Check Fee | \$15 per check |
| Diploma Fee, undergraduate | \$10 |
| Diploma Fee, graduate | \$20 |
| Certificate Fee..... | \$6 |
| Late Registration Fee..... | \$5 |
| I.D. Card | \$4 per semester \$2 per summer term |
| Transcript Fee, after the first..... | \$2 |
| Vehicle Registration..... | \$15 per semester \$10 per summer term |
| Registration in Absentia | \$15, resident \$17.50, non resident |

Refundable Deposits

General Property Deposit

\$10
(Covers possible damage to University property or other student indebtedness. Refunded upon request not earlier than 10 days after graduation or withdrawal if no damages occur.)

Room Reservation Deposit.....

\$50
(Covers reservation and is retained to cover possible damage to University property or other indebtedness. Refunded upon request not earlier than 10 days after graduation or withdrawal if no damages occur.)

| | |
|-------------------------------|------|
| Key Deposit, initial..... | \$5 |
| Key Deposit, replacement..... | \$10 |

(Full amount refundable with receipt.)

The following fee examples are those for a Texas resident enrolling for 17 semester hours during a semester or 6 semester hours during a summer term, using the fee schedule above.

| <i>Fee for:</i> | <i>Semester</i> | <i>Summer Term</i> |
|-----------------------|-----------------|--------------------|
| Tuition | \$68 | \$25 |
| Student Services | \$60 | \$30 |
| Building Use | \$97.75 | \$34.50 |
| Room (Drew and Holly) | \$561 | \$238 |
| All other dorms | \$491 | \$198 |
| Board | \$700 | \$292 |
| Sales Tax on Board | \$31.80 | \$13.25 |
| Laundry | \$79 | \$31 |
| I.D. Card | \$4 | \$2 |

Fee Exemptions

Certain students are exempted by State law from payment of certain fees. Application for the exemptions described below may be made by presenting proof of eligibility to the Registrar.

- Highest-ranking graduate in high school class.
First year tuition only.
- Veterans who were citizens of Texas at the time they entered the armed forces and who resided in Texas for the 12 month period immediately preceding the date of registration.
 - Tuition
 - Building Use Fee
 - Laboratory Fees
- Eligible children of disabled or killed-on-duty firemen and peace officers.
 - Tuition
 - Student Services Fee
 - Building Use Fee
 - Laboratory Fees
- Blind and Deaf Students
 - Tuition
 - Student Services Fee
 - Building Use Fee
 - Laboratory Fees
 - Property Deposit
- Students of other nations of the American hemisphere certified for exemption by the State Board of Education.
 - Tuition Only
- Firemen enrolled in fire science courses.
 - Tuition
 - Laboratory Fees

STUDENT LIFE

7. Dependent children of prisoners of war or persons missing in action from armed forces duty.
 - Tuition
 - Student Services Fee
 - Building Use Fee
 - Laboratory Fees
8. Full-time Employees of the Texas A&M University System
 - Student Services Fee
 - Building Use Fee
9. Military personnel assigned to full-time ROTC duty in the Military Science Department of any general academic institution of the Texas A&M University System.
 - Student Services Fee
 - Building Use Fee
10. Students registered *in absentia*
 - Student Services Fee
 - Building Use Fee

Fee Payment Plans

Prairie View A&M University offers two registration fee payment plans. Pay Plan I requires full payment of all fees at the time of registration. Pay Plan II requires full payment of all required fees *other than* room, board and laundry, plus one-third of the fees for room, board and laundry at the time of registration. The remaining balance is due in two equal installments on or before October 5th and November 5th in the Fall semester, or March 5th and April 5th in a Spring semester. Pay Plan II is available only to students residing in University dormitories and is not offered during Summer sessions.

Financial Aid

The Office for Admissions, Records and Financial Aid administers various programs providing financial assistance to qualified students. Services provided include student loans, scholarships, grants, work-study programs and counseling and advisement on financial aid. Except for certain scholarships for high achievers, the amount of financial aid available is generally based on need, ability and promise. It is intended only for use as a means to pay educational expenses at Prairie View A&M University and will ordinarily not exceed the student's actual expenses or needs as determined by application and award guidelines and procedures. For information regarding specific programs available, contact the Financial Aid Officer.

Unpaid Obligations

Students who do not fulfill their financial obligations when due are administratively withdrawn from the University and will not receive academic credit for that term. All checks accepted by the University are expected to clear the bank on which they are drawn. A student who issues as many as three checks which are dishonored will be denied further check writing privileges.

Fee Refunds

Fee refunds will be permitted for courses dropped and withdrawal from the University within certain time constraints as described below.

A full refund of applicable tuition and fees collected will be made for courses dropped within the first 12 class days of the Fall or Spring semester, or within the first 4 days of a Summer term. A student who wishes to withdraw from the University after completing the registration process must follow prescribed procedures for withdrawal or risk substantial penalties and difficulty in registering for future semesters. Required forms for withdrawal are available from the Registrar. The schedule of refunds is described below.

Refund Schedule

Tuition, student services fees, building use fee and laboratory fees.

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 days | none |

Five- or Six-week Summer Session

| | |
|---|-------------|
| 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 |

Room reservation fees will be refunded in full if the reservation is canceled by July 15th for the Fall semester, December 15th for the Spring semester, May 10th for the first Summer session or June 20th for the second Summer session. No refunds will be made if room reservations are canceled after these dates.

Room Rent. If a student withdraws after classes begin and has paid room rent for the semester in full, a prorated refund of unused room rent will be made. No refund will be made to a student who is paying rent on an installment plan.

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

Food Service Fee. Payments made for board will be refunded in full if the student withdraws before the first class day. Refunds on or after the first class day will be prorated on a daily basis less an early withdrawal fee of 10 percent of the semester rate.

Identification Card Fee. No refund will be made after the card is issued.

Refunds of tuition and fees paid by a sponsor, donor or scholarship will be made to the source rather than to the student if such payments were made available through the University.

STUDENT LIFE

MAJOR FACILITIES AND SERVICES

Alumni Hall

Alumni Hall is the centrally located dining facility which provides contract meal services for students living in the residence halls. Cash and special event dining services are also provided for faculty, staff and visitors. Large lounge and lobby spaces are available and frequently used for receptions and other special events.

W.R. Banks Library

The library, named in honor of a former chief administrator of the University, has undergone two stages of physical growth. The first stage was completed in 1945 and then expanded in 1968 with a half-million dollar addition to the building. The library has three floors and provides seating for five-hundred readers. A new library building costing 16 million dollars will open in 1987.

The fast-growing total collection contains 260,000 volumes, 168,298 microforms, a Texas State Documents Collection of over 2,933 items, an Afro-American Collection, a Master's Thesis Collection, curriculum materials, and a Prairie View A&M Archival Collection. Over 1,976 periodicals and other serials are currently received by the library.

The Reference Department staff provides assistance in using the reference collection located on the first floor. Also located on the first floor are the microtext area, the Afro-American Collection, the Archives, a group study room, interlibrary loan service and ONAIR computer literature searching. The second floor houses the circulating collections and seating space for users. The Learning Resources Center and Current Periodicals Department are located on the basement level.

With the exception of periodicals, reference books, books from the Afro-American Collection and some reserved books, most books are loaned for a period of two weeks. An "open-stack" arrangement allows free access to all materials except those in the University Archives and some current periodicals. Library hours are Monday through Thursday from 7:30 AM to 10:00 PM; Fridays from 7:30 AM to 9:00 PM; Saturdays from 8:00 AM to 5:00 PM, and Sundays from 2:00 PM to 10:00 PM. Hours for special areas and any exceptions to regular hours are posted in the Library.

Memorial Student Center

Memorial Student Center is the nucleus of extracurricular activity on campus. Facilities are provided for relaxation, recreation, meetings, receptions, dances and many other student activities. Also located in this building are the College Exchange and Bookstore, Post Office, Beauty and Barber Shop, Restaurant, Game Rooms, Ballroom, Hotel, and offices of the Student Government Association, Director of Student Activities, Dean of the Chapel, and the Pan Hellenic Council.

Owens-Franklin Health Center

The Health Center is an on-campus facility staffed by qualified professionals who are available to students twenty-four hours a day, Monday through Fri-

day, and 7:00 AM to 7:00 PM on weekends. Emergency medical attention and limited overnight nursing services are provided in conjunction with transfer arrangements to full-service hospitals in Hempstead and the Houston area. Family planning services are also available to students through the Health Center.

Residence Halls

Eight residence halls (four each for males and females) provide living-learning centers for students. Services provided in the residence halls include study areas, telephones, limited mail service, laundry areas, lounge areas, kitchenettes, vending areas and storage spaces.

Admissions, Records, and Financial Aid Office

Students seeking information regarding admission or filing applications for admission should contact the Admissions Officer. Once admitted, student registration and enrollment in courses is administered by the Registrar, who is also responsible for developing and maintaining permanent transcript records of student grades and academic progress and for the preparation of diplomas to be awarded upon completion of degree programs. Financial aid arrangements, including scholarships, are handled by the Financial Aid Officer.

Bursar's Office

The Bursar's Office handles all financial transactions and issues receipts involved in the collection of fees for University services, including tuition, room and board, and other fees associated with registration. The bursar also issues payments to students and others employed by the University or receiving financial aid.

United Ministries

The United Ministries provide opportunities for students to maintain voluntary associations with groups representing their personal religious preferences. Non-denominational worship services are conducted each Sunday and prayer services are held each Tuesday evening. The United Ministries organization sponsors lectures, luncheons and other religiously oriented social activities. Information regarding religious activity may be obtained by contacting the Dean of Chapel.

University Counseling and Testing Services

The University Counseling and Testing Services provide personal, academic and career counseling services to assist students as needs arise. Services are provided by certified professional counselors. Both individual and group programs are available to help students develop and maintain the positive attitudes, habits and skills essential to success in the classroom and in life. A variety of assessment instruments is available for measuring various personal attributes and achievement levels. These include personality inventories, vocational-occupational inventories, interest inventories and achievement tests. In addition, the Center administers standardized tests required for admission to, or exit from, various academic programs at the University and elsewhere.

Career Education and Placement Center

The Career Education and Placement Center assists students by providing current information regarding career opportunities and requirements, locating and posting job vacancy information, hosting recruiters from business and industry who conduct job interviews with students, and preparing and filing credentials for use by employers. All students are encouraged to visit and register with the Placement Center by completing a personal data file prior to graduation.

Safety and Security Services

The University Department of Safety and Security operates twenty-four hours daily and provides police, fire, ambulance, civil defense, and paramedic services to residents of the University and surrounding community as needed. Security officers enforce University regulations as well as county and municipal ordinances and state laws.

Graduate School

ADMINISTRATIVE OFFICERS

Arthur C. Washington, B.S., M.S., Ph.D.
Dean, Graduate School

Theodore R. Freeman, B.S., M.S., Ph.D.
Dean, College of Agriculture

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

Bernice R. Rollins, B.S., M.S., Ed.D.
Dean, College of Business

Louis L. Aikens, B.S., M.Ed., Ph.D.
Acting Dean, College of Education

Wayne D. Perry, B.S., M.S., Ph.D.
Dean, College of Engineering

Harold S. Bonner, B.S., M.S., Ed.D.
Acting Dean, College of Engineering Technology

Flossie M. Byrd, B.S., M.Ed., Ph.D.
Dean, College of Home Economics

The Graduate School provides opportunities for advanced study to qualified students seeking continuing education and/or graduate 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 offers most of its graduate courses on the main campus at Prairie View. However, each semester a limited number of courses are offered at off-campus sites. Off-campus sites are currently located in the Cypress-Fairbanks, Aldine and Rosenberg school systems, the campus of the Prairie View College of Nursing near downtown Houston, and in the Beaumont-Port Arthur area.

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

ADMISSION 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.

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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. Two letters of recommendation from persons in the field of the applicant's academic major.
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.

For submission of the application and all credentials, 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

Applications should be submitted to:

Graduate Admissions Office

Room 103, Evans Hall

Prairie View A&M University

Prairie View, Texas 77446

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 a 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 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 once 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.

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 Executive Vice President for Academic Affairs. 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 spe-

cific 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. (No more than 6 semester hours may be transferred from another institution).

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 degrees of Master of Arts and 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 Chairman. 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.

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.

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 a 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

A 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 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 nine semester hours of ex-

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tension 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).

No graduation credit is given for courses in which a grade lower than "C" is received. In order to show satisfactory progress toward an advanced degree a student must maintain an average grade of "B." A student who, in any two consecutive semesters or summer terms, has a cumulative grade point average below 3.00 is subject to academic dismissal upon recommendation of the 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 "satisfactory" or "unsatisfactory."

Time Limit on Work for Master's Degree

A student must complete requirements for the degree within six consecutive years after the first enrollment in the Graduate School. Credit for individual courses completed in residence 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 and the college 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.

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.

ADVANCEMENT TO CANDIDACY

Admission to full graduate status does not confer admission to candidacy for a master's degree. To become a candidate, the student must prepare an Application for Candidacy form and submit it to the Dean of the College and the Graduate School for approval. The form verifies that the applicant has completed satisfactorily 12 semester credit hours of required graduate

A graduate student who has been selected to receive a three-week summer fellowship... A graduate student selected by a three-week term may not enroll for...



Students participate in an Appeal

A student who has been selected to receive a three-week summer fellowship... to receive a three-week summer fellowship... with the college. If a student wishes to appeal, it should be... chairman of the college, for a review of the matter. A student...

The following conditions will apply to all who are offered a...

1. During a regular session, a graduate student may not... then, it does.
2. During a five- or six-week summer term, a graduate student... shall for eight days, six working hours, every week... four-hour course, in which over the student may work... hours. The total credit hours earned for the summer may not... not exceed fourteen.

College of Agriculture

ADMINISTRATIVE OFFICER

Theodore R. Freeman, B.S., M.S., Ph.D.
Dean and Research Director

INSTRUCTIONAL ORGANIZATION

The College of Agriculture offers the following graduate degree programs:

| <i>Programs</i> | <i>Degrees Offered</i> |
|------------------------|------------------------|
| Agricultural Economics | M.S. |
| Animal Science | M.S. |
| Soil Science | M.S. |

The College also provides graduate support courses in these areas as well as agricultural education. Graduate coursework in agricultural education may also be applied to a master's degree program in education with a concentration in agricultural education. Students seeking this option should apply for admission to the College of Education.

ADMISSION TO PROGRAM

Applicants for admission to the College of Agriculture graduate programs should submit an application to the Office of the Dean of the Graduate School by the following deadline dates:

April 1, for 1st Summer Session

May 1, for 2nd Summer Session

July 1, for Fall Semester

November 1, for Spring Semester

Complete admission credentials consist of the following:

1. Application for admission, completed in duplicate;
2. Transcript(s) of previous academic work (undergraduate and/or graduate);
3. Social Security Number;
4. Graduate Record Examination score (minimum score of 700); and
5. Three letters of recommendation.

The student should file a degree plan within the first semester of matriculation in the College. The degree plan form may be obtained from the major advisor.

ADVANCEMENT TO CANDIDACY

Admission to full graduate status does not confer admission to candidacy for the master's degree. To become a candidate, the student must prepare an official Application for Candidacy form and submit it to the Dean of the College and the Graduate School for approval. The form verifies that the applicant has completed satisfactorily 12 semester credit hours of required graduate

COLLEGE OF AGRICULTURE

courses with an average grade of "B" or better, and gives a listing of courses to be completed.

PROGRAM REQUIREMENTS (M.S. - Agricultural Economics)

A minimum of 15 semester hours of course work in agricultural economics, 9 semester hours in business economics theory and statistics, 3 semester hours in research methods and techniques, 3 semester hours of thesis research, 9 semester hours of electives, and an oral examination in defense of the thesis.

| | |
|-----------|------------------------------------|
| AGEC 5203 | Thesis Research |
| AGEC 5213 | Land and Resource Economics |
| AGEC 5233 | Price Analysis |
| AGEC 5243 | Agricultural Policy |
| AGEC 5253 | Marketing Agricultural Products |
| AGEC 5263 | Research in Agricultural Economics |
| AGEC 5283 | Agricultural Finance |
| BSAD 5113 | Business Statistics |
| ECON 5013 | Microeconomic Theory |
| ECON 5023 | Macroeconomic Theory |
| | Electives (9 hours) |

Total Degree Requirements

39 Semester Hours

PROGRAM REQUIREMENTS (M.S. - Animal Science)

A minimum of 19 semester hours of animal science courses, 8 semester hours of designated electives, 3 semester hours in research methods and techniques, 3 semester hours of thesis research, 6 hours of electives, and an oral examination in defense of the thesis.

| | |
|-----------|----------------------------|
| AGRO 5713 | Introduction to Biometrics |
| ANSC 5501 | Seminar |
| ANSC 5503 | Research |
| ANSC 5513 | Physiology of Reproduction |
| ANSC 5523 | Animal Reproduction |
| ANSC 5533 | Non-ruminant Nutrition |
| ANSC 5543 | Ruminant Nutrition |
| ANSC 5553 | Dairy Goat Production |
| ANSC 5563 | Animal Health |
| BIOL 5094 | Microbiology |
| CHEM 5534 | General Biochemistry |
| | Electives (6 hours) |

Total Degree Requirements

39 Semester Hours

PROGRAM REQUIREMENTS (M.S. - Soil Science)

A minimum of 26 semester hours of course work in agronomy, 3 semester hours in research methods and techniques, 3 semester hours of thesis research, 6 semester hours of free electives, and an oral examination in defense of the thesis.

- AGRO 5653 Research
 AGRO 5664 Advanced Soil Chemistry
 AGRO 5693 Soil Genesis and Classification
 AGRO 5713 Introduction to Biometrics
 AGRO 5723 Advanced Soil Management
 AGRO 5753 Plant Nutrition and Soil Fertility
 AGRO 5763 Special Problems
 AGRO 5781 Seminar
 AGRO 5783 Application to Biometrics
 Electives (12 hours)

Total Degree Requirements

38 Semester Hours

DESCRIPTION OF COURSES

Agricultural Economics (AGEC)

- 5203. Thesis Research.** (3-0) 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 agricultural economics.
- 5213. Land and Resource Economics.** (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; and time and space as they affect resource utilization and benefits. Laboratory studies of field problems in resource development and use.
- 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; agri-business organization and management; and managerial decision-making. Laboratory application of principles of economics to the production process, including analysis of costs, returns, and productivity.
- 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 to time, space, and value; market integration and product quality control; and market contracting, orders and power.

5263. **Research Methods in Agricultural Economics.** (3-0) Credit 3. Philosophy, methods, and techniques of scientific research in the discovery of new knowledge, especially in economic development and in productivity of agriculture; role of theory and assumptions. Definition of research and evaluation of research project proposals, including objectives and procedures; analytical methods and techniques in research; and 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 businesses, 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.
- 5991-5992-5993. **Independent Study.** (0-0) Credit 1, 2, or 3. Reading, research, and/or field work on selected topics. Prerequisite: Consent of advisor.

Agricultural Education (AGED)

5313. **Advanced Methods in Agricultural Education.** (3-0) Credit 3. Advanced course in teaching. Prerequisite: Professional public school or extension experience or approval of program coordinator.
5323. **Workshop in Agricultural Education.** (2-2) Credit 3. Study of selected problems in teacher and/or extension education. Consultants utilized in specialized areas.
5333. **Administration and Supervision of Agricultural Education.** (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 experience in youth.
5353. **Technological Change.** (3-0) Credit 3. A study of advanced technological changes affecting the agricultural economy; cultural and socioeconomic forces retarding and/or accelerating change. Processes of planning and implementing change.
5363. **Philosophy of Agricultural Education.** (3-0) Credit 3. Study of historical and philosophical developments that brought about education in agriculture. Socioeconomic factors and ideas of individuals that influenced agricultural institutions and organizations.
5373. **Seminar** (3-0) Credit 3. Study of current legislative and research developments in agricultural education and in related areas of agriculture.
5383. **Principles of Adult Education in Agriculture.** (3-0) Credit 3. Identification of basic principles that govern and motivate adult learning. A study of procedures used to implement these principles to bring about more desirable changes in behavior and livelihood.

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 youth. Techniques of individual and group counseling.
5814. **Special Topics in Agriculture.** (2-4) Credit 4. Directed individual study of a problem affecting some aspect of the agricultural industry. Special work in the area of major interest. Reports, discussion, and major papers.
5823. **Occupational Experience Programs.** (2-2) Credit 3. Study of occupational experience programs in agriculture — their nature and scope in relation to production. Cooperative part-time and pre-employment laboratory experiences.
5833. **Organization and Administration of Cooperative Extension.** (3-0) Credit 3. Study of cooperative extension in agriculture and home economics; principles of development; objectives and program planning; coordination and procedures of teaching and evaluating. One week observation with a County Extension Agent. Prerequisite: senior or graduate classification.
- 5991-5992-5993. **Independent Study.** (0-0) Credit 1, 2 or 3. Reading, research and/or field work on selected topics. Prerequisite: Consent of advisor.

Agronomy (AGRO)

5603. **Soil Mineralogy.** (3-0) Credit 3. Weathering processes and products in relation to soil formation and effects of mineral composition of soil components on the properties and profile characteristics of soils.
5614. **Soil Microbiology.** (3-2) Credit 4. Soil microorganisms and their effect on soil physical and chemical properties, nitrogen fixation, organic matter decomposition, and soil nitrogen transformations.
5623. **Soil Fertility Ecology.** (3-0) Credit 3. Management practices of Savanna Prairie soils with respect to yields of pasture and row crops and effect on soil properties. Particular attention will be given to the effect of lime and rotational systems on efficiency of fertilizers under varying rainfall and temperature situations.
5633. **Fertilizer Techniques and Use.** (3-0) Credit 3. Techniques of fertilizer manufacture and storage; application methods; chemical reactions of fertilizer when applied to soil; and fertilizer recommendations according to soil analysis.
5643. **Soils and Land Use Planning.** (3-0) Credit 3. Soil factors affecting land use planning for various land uses such as residential and industrial development, septic tank fields, sewer lagoons, foundations, roads, and streets, recreation, and agricultural production.
5653. **Research.** (0-0) Credit 3. Registration with permission of College Graduate Committee. Student conducts research activities towards the solution of a thesis problem and communicates results in a thesis monograph.

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- 5664. Advanced Soil Chemistry.** (2-4) Credit 4. The physiochemical properties of soil with particular emphasis on methods and instrumentation utilized in characterizing clay minerals, measuring soil acidity, ionic adsorption, soil nutrients, nutrient fixation, nutrient release, and the uptake of soil nutrients by plants.
- 5683. Soil Physics.** (3-0) Credit 3. The basis of important physical behavior of soils in relation to soil aeration, consistency, structure, and strength; heat and water flow and retention. Prerequisites: 3 hours of physics, 3 hours of calculus, or consent of instructor.
- 5693. Soil Genesis and Classification.** (3-0) Credit 3. The source of soil materials and processes involved in the formation of soils, with emphasis on soil variations world-wide and the principles of soil classification and mapping.
- 5703. Soil Survey and Interpretation.** (3-0) Credit 3. Principles and techniques employed in making soil surveys and the interpretation of survey information for land use decisions; includes the relationships between soil properties and land use requirements.
- 5713. Introduction to Biometrics.** (3-0) Credit 3. A study of the scientific method, statistical concepts, data analysis procedures, and experimental designs.
- 5723. Advanced Soil Management.** (3-0) Credit 3. The application of the principles of soil science for the recommendations of soil management practices under diverse environmental conditions and for specific crops, with emphasis on management practices in tropical climates and crops.
- 5733. Soils and Quality of the Environment.** (3-0) Credit 3. The pollution of soils, soil erosion, and soil pollution in the environment. Agricultural chemicals as pollutants, soil as a sink for industrial and urban wastes, and the impact on biological life.
- 5743. Soil of the Tropics.** (3-0) Credit 3. The physical and chemical properties of tropical soils; their fertility status and the effects of cultural practice on soil properties. Soil conservation and management will be considered for different soils under diverse environmental conditions and farming practices. Special consideration will be given to the yield of tropical crops and their response to cultural practices, including control of soil-borne diseases, pests, and weeds.
- 5753. Plant Nutrition and Soil Fertility.** (3-0) Credit 3. The essential elements for plant growth; with their chemistry, sources and availability in the soil and their functions in plant metabolism, including their role in the attention of toxic metals and of select organic materials.
- 5763. Special Problems.** (3-0) Credit 3. Analysis of select problems in agricultural science, utilizing the scientific method and employing statistical inferences and creative interpretations of data drawn from the literature.
- 5781. Seminar.** (1-0) Credit 1. Techniques for the preparation and presentation of a seminar, the use of media, the lecture method, oratory and public speaking, and the use of notes and outlines.

5783. **Application of Biometrics.** (3-0) Credit 3. Techniques of experimental designs for biological and agricultural research in field, greenhouse, and laboratory. Methods to reduce error and enhance experimental control.
- 5991-5992-5993. **Independent Study.** (0-0) Credit 1, 2 or 3. Reading, research, and/or field work on selected topics. Prerequisite: Consent of advisor.

Animal Science (ANSC)

5501. **Seminar.** (1-0) Credit 1. Review and discussion of selected materials from the literature in animal science. Emphasis on recent advances in the animal science industry and research.
5503. **Research.** (2-2) Credit 3. Preparation of proposal, design of experiment, collection of experimental data, and presentation of the results in an acceptable scientific model.
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.
5523. **Animal Reproduction.** (3-0) Credit 3. Physiology of reproduction; principles of normal and abnormal parturition; diagnosing and treating sterility; abortion; and reproduction failures.
5533. **Non-Ruminant Nutrition.** (2-2) Credit 3. Full 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.
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.
5553. **Dairy Goat Production.** (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.
5563. **Animal Health.** (2-2) Credit 3. Etiology, epidemiology, immunology, preventive measures, and management practices pertinent to diseases of small ruminants.
- 5991-5992-5993. **Independent Study.** (0-0) Credit 1, 2 or 3. Reading, research and/or fieldwork on selected topics. Prerequisite: Consent of advisor.

... Application of Biomathematics (12-01 Credit) 2- Techniques of experimental design for field and laboratory research in field, greenhouse, and laboratory situations and the use of statistical methods in experimental control.

... Research in the Control of Plant Diseases (12-01 Credit) 2- The study of the life history of plant diseases, the methods of control, and the use of biological control agents. This course is a prerequisite for the study of plant pathology.



... with scientific evaluation of such information.

... Animal Health (12-01 Credit) 2- Etiology, epidemiology, immunology, and management of diseases of farm animals, and the use of vaccines and antibiotics.

... Independent Study (12-01 Credit) 2- or 3- Research in the field or laboratory on related topics. Prerequisite: Consent of the instructor.

... Plant Pathology (12-01 Credit) 2- The study of the life history of plant diseases, the methods of control, and the use of biological control agents. This course is a prerequisite for the study of plant pathology.

... Plant Physiology (12-01 Credit) 2- The study of the life history of plant diseases, the methods of control, and the use of biological control agents. This course is a prerequisite for the study of plant pathology.

... Plant Pathology (12-01 Credit) 2- The study of the life history of plant diseases, the methods of control, and the use of biological control agents. This course is a prerequisite for the study of plant pathology.

College of Arts and Sciences

ADMINISTRATIVE OFFICER

Edward W. Martin, B.A., M.A., Ph.D.
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, music and sociology. Students admitted to the graduate programs as degree candidates in the College of Arts and Sciences must follow a degree program as outlined by the specific department. A degree plan will be designed according to the student's academic background, personal needs and interests.

| <i>Departments</i> | <i>Programs</i> | <i>Degrees Offered</i> |
|--|--------------------------|------------------------|
| Art, 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 & Computer Science | Mathematics | M.S. |
| Social Work/Sociology | Sociology | M.A. |
| 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 Master's degrees are presented by each department offering the degree. Refer to the specific program area for details.

| Department | Program |
|------------|---------|
| Education | M.A. |
| Education | M.S. |
| Education | M.Ed. |
| Education | M.A.T. |
| Education | M.A. |
| Education | M.S. |
| Education | M.A. |
| Education | M.A. |
| Education | M.A. |

The College also provides graduate support courses in these areas as well as first courses.

MISSION TO PROGRAM

Students seeking admission to the graduate program are required to submit a formal application for admission to the Graduate School.

- The following academic dates apply:
- April 1 for Fall Semester Session
 - May 1 for Spring Semester Session
 - July 1 for Fall Semester
 - November 1 for Spring Semester

Submit official transcripts of records covering all college and university work completed to date, together with official evidence of the grade(s) conferred. A separate original and official record of completed graduate course work must be forwarded from each institution previously attended. In addition to having the records sent, each student must have a letter from the official records officer for use when in contact with the department and for other purposes when such records are needed.

Department of Art, Music and Drama

ADMINISTRATIVE OFFICER

Lucius R. Wyatt, B.S., M.M., Ph.D.
Department Head

INSTRUCTIONAL ORGANIZATION

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

| <i>Program</i> | <i>Degree Offered</i> |
|-----------------|-----------------------|
| Music (Applied) | M.A. |

The Department also provides graduate support courses in this area as well as in Art Education and Music Education. Graduate coursework in music education may also be applied to a master's degree program in education with a concentration in music. Students seeking that option should apply for admission to the College of Education.

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 90% of all program-required courses before submitting an application for graduation. At the time of submitting this application, the student should be preparing for a graduate music recital or already involved in writing a thesis.

PROGRAM REQUIREMENTS (M.A. - Applied Music)

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

DESCRIPTION OF COURSES

Art Education (ARED)

5323. **Methods of Teaching Art.** (3-0) Credit 3. Methods of teaching art on the elementary and secondary levels.
5333. **Special Projects in Public School.** (3-0) Credit 3. The study of various art media as they relate to the child.
5353. **Arts and Crafts in Public Schools.** (3-0) Credit 3. Methods of teaching crafts in the classroom.

5363. Ceramics. (3-0) Credit 3. Emphasis on teaching ceramics in the art classroom.

Music (MUSC)

5001. Music Workshop. (0-5) Credit 1. A workshop devoted to the discussion of special topics in music.

5002. Music Workshop. (5-5) Credit 2. A workshop devoted to the discussion of special topics in music.

5003. Music Workshop. (5-10) Credit 3. A workshop devoted to the discussion of special topics in music.

5013. Instrumental Conducting. (3-0) Credit 3. The study of techniques used in conducting instrumental ensembles.

5023. Choral Conducting. (3-0) Credit 3. The study of conducting techniques used in the performance of choral music.

5111. Choir. (0-5) Credit 1. An ensemble devoted to the performance of choral music: Graduate student enrollment only.

5213. Graduate Comprehensive Musicianship. (3-0) Credit 3. The study of music with broad application of theoretical and historical concepts.

5223. Analysis of Music. (3-0) Credit 3. The analysis of small and large forms of music.

5233. Advanced Orchestration. (3-0) Credit 3. Practical scoring for instrumental ensembles.

5243. Score Reading. (3-0) Credit 3. The study of the techniques of reading musical scores at the piano.

5303. Studies in Piano Literature. (3-0) Credit 3. The study of significant literature for the piano.

5313. History of Music and Literature I. (3-0) Credit 3. A graduate level course in the history of music from Antiquity to 1750.

5323. History of Music and Literature II. (3-0) Credit 3. A graduate level course in the history of music from 1750 to the present.

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.

5353. Studies in Wind-Percussion Literature. (3-0) Credit 3. The study of significant literature written for wind and percussion instruments. Solo and chamber music.

5363. Twentieth Century Music. (3-0) Credit 3. The study of the developments in music from 1900 to the present with emphasis on the leading composers and their styles.

5373. Choral Literature. (3-0) Credit 3. The study of musical works written for choir.

5383. **Band Literature.** (3-0) Credit 3. The study of musical works written for the wind band.
5393. **Studies in Voice Literature.** (3-0) Credit 3. The study of selected vocal literature, including comparisons of contrasting performance practices.
5873. **Nineteenth Century Music.** (3-0) Credit 3. The study of the major developments in music during the Nineteenth Century.
5903. **Thesis.** (0-0) Credit 3. Original research in music culminating in a written document. This course may be repeated for credit.
5973. **Introduction to Musical Research.** (3-0) Credit 3. An introductory course in the methods and techniques of musical research; bibliography; review of informational sources.
5983. **Research Project.** (0-0) Credit 3. An original research project in music completed in lieu of the thesis.
- 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.

Applied Music Courses

| | <i>Piano</i> | <i>Organ</i> | <i>Voice</i> | <i>Brass</i> | <i>Woodwind</i> | <i>Percussion</i> |
|------------|--|--------------|--------------|--------------|-----------------|-------------------|
| MUSC | 5513 | 5583 | 5613 | 5713 | 5813 | 5913 |
| MUSC | 5523 | 5593 | 5623 | 5723 | 5823 | 5923 |
| MUSC | 5533 | | 5633 | 5733 | 5833 | 5933 |
| MUSC | 5543 | | 5643 | 5743 | 5843 | 5943 |
| MUSC | 5553 | | 5653 | 5753 | 5853 | 5953 |
| MUSC | 5563 | | 5663 | 5763 | 5863 | 5963 |
| PIANO | — Applied music studies in piano with attention to appropriate graduate level literature. Private lessons. | | | | | |
| ORGAN | — Applied music studies in organ with attention to appropriate graduate level literature. Private lessons. | | | | | |
| VOICE | — Applied music studies in voice with attention to appropriate graduate level literature. Private lessons. | | | | | |
| BRASS | — Applied music studies in the brass instruments with attention to appropriate graduate level literature. Private lessons. Trumpet, French horn, trombone, euphonium and tuba. | | | | | |
| WOODWINDS | — Applied music studies in the woodwind instruments with attention to appropriate graduate level literature. Private lessons. Flute, oboe, clarinet, bassoon and saxophone. | | | | | |
| PERCUSSION | — Applied music studies in the percussion instruments with attention to appropriate graduate level literature. Private lessons. | | | | | |

Music Education (MUED)

5413. **Foundations of Music Education.** (3-0) Credit 3. Introduction to graduate study in music education. Basic concepts, history and philosophy of music education with applications to problems in music teaching. Bibliography and survey of current literature.

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- 5423. The Teaching of Vocal Music in High School.** (3-0) Credit 3. The study of pedagogical approaches to teaching voice music.
- 5433. The Teaching of Instrumental Music in High School.** (3-0) Credit 3. The study of pedagogical approaches to teaching instrumental music.
- 5443. Teaching Music in Elementary School.** (3-0) Credit 3. The study of pedagogical issues in teaching elementary school music.
- 5453. Marching Band Techniques.** (3-0) Credit 3. The study of band pageantry; the planning and organization of performances of the marching band; the charting of formations.
- 5463. Piano Class Teaching.** (3-0) Credit 3. The study of teaching principles in group piano instruction.
- 5473. Problems in Teaching Sight Singing.** (3-0) Credit 3. The study of pedagogical strategies and problems in the teaching of sight singing.
- 5483. Psychology of Music Teaching and Learning.** (3-0) Credit 3. A review of the essential teaching techniques and strategies used in music teaching in conjunction with new research studies in psychology.
- 5493. Seminar in Music Education.** (3-0) Credit 3. Special topics in music education.

Department of Biology

ADMINISTRATIVE OFFICER

Jewel E. Berry, A.B., M.A. Ph.D.
Department Head

INSTRUCTIONAL ORGANIZATION

The Department of Biology offers the following graduate degree programs:

| <i>Programs</i> | <i>Degrees Offered</i> |
|---|------------------------|
| Biology | M.S. |
| Biology (Environmental Toxicology Option) | 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 20 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.

DESCRIPTION OF COURSES

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.
5023. **Plant Pathology.** (2-2) Credit 3. Fundamentals of parasites as they affect plants and the means of controlling the diseases resulting from parasites which are detrimental to plants. Lab fee.
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 subcellular level to that of the total organism.
5034. **General Physiology.** (2-4) Credit 4. Organs of internal secretion, embryology, organology, microscopic anatomy, and physiology.
5044. **General Entomology.** (2-4) Credit 4. The structure, life history, habits and means of recognizing and classifying the more common insects. Lab fee.
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.

5054. **Experimental Embryology.** (2-4) Credit 4. Modern problems and techniques in the principles and mechanisms of development; analysis of factors operating in the morphogenesis, regeneration and development of selected vertebrates. Prerequisite: BIOL 5004.
5063. **Microbial Activity in Toxicology.** (3-0) Credit 3. Survey of microbial actions in the field of environmental toxicology. Toxigenic microorganisms, major microbial toxins, and use of microbial systems in toxicological studies. Microbial alterations of environmental contaminants.
5064. **Systematic Botany.** (2-4) Credit 4. Local flora, with emphasis on the identification and classification of higher plants.
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.
5103. **Research in Botany.** (0-6) Credit 3. Selected individual research problems in any listed area in botany in which the student has a sufficient background. 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.
5134. **Neurology.** (2-4) Credit 4. Review of the brain and cranial nerves of the shark; morphology of the spinal cord and brain of a mammal; principal tracts and nuclei reaction systems of the cord and brain of the human nervous system. Lab fee.
- 5141-5151. **Seminar in Biological Problems.** (1-0) Credit 1 each. Student participation in general and specific research topics in Biology.

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- 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 and 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.
- 5224. Dairy Bacteriology.** (2-4) Credit 4. Importance of bacteria in dairy products; the number and types of bacteria in dairy products and significance of their occurrence. Lab fee.
- 5991-5992-5993. Independent Study.** (0-0) Credit 1, 2 or 3. Reading, research and/or field work on selected topics in biology. Prerequisite: Consent of advisor.

Department of Chemistry

ADMINISTRATIVE OFFICER

John R. Williams, B.S., Ph.D.
Department Head

INSTRUCTIONAL ORGANIZATION

The Department of Chemistry offers the following graduate degree program:

| <i>Program</i> | <i>Degree</i> |
|----------------|---------------|
| 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, two semesters 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 devote at least one summer entirely to research. It is further required that the thesis be of such quality that it may

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be published in an acceptable 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, 5623, 5783, and enough 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.

DESCRIPTION OF COURSES

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; and 5. Physical.
- 5016. Research.** See CHEM 5006.
- 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 lecturers 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 CHEM 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 and familiarity with instrumental techniques and chemical literature. Trace analysis and methods of handling experimental data, including use of the computer.
- 5324. Instrumental Analysis.** (2-4) Credit 4. Theoretical principles are 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 material.
5412. **Organic Synthesis.** (0-4) 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.** (1-4) Credit 3. An introduction to micromethods. The determination of elements and functional groups by micromethods.
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. Physiochemical relationships of living matter; chemistry of foodstuff and tissue; quantitative analysis of blood tissue and urine constituents; enzyme digestion, absorption, metabolism, nutrition and biophysics. Prerequisite: CHEM 3033 or permission of instructor.
5542. **Metabolism.** (0-4) Credit 2. A quantitative study of the intermediates formed in cellular metabolism of fats, carbohydrates, proteins, and minerals. Both manometric and spectrometric methods are included. Prerequisites: CHEM 4023 and 4033.
5543. **Intermediary Metabolism.** (3-0) Credit 3. The intermediates formed in the metabolism of fats, carbohydrates, proteins, minerals and nucleic acids, and interrelationships between the metabolic pathways in both plants and animals. Prerequisites: CHEM 4023 and 4044.
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 and 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.
5584. **Topics in Chemistry Nutrition.** (2-4) Credit 4. Lectures on recent developments in nutrition and in the biochemical role of vitamins, amino acids, proteins, minerals and hormones as related to humans and animals. Laboratory work will include formulation and evaluation of selected synthetic materials as diet supplements.

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 electrolytes in non-aqueous solvents.
5712. **Electrochemistry.** (0-4) Credit 2. Conferences, assigned readings and exercises in the laboratory dealing with fundamental theories of electrochemistry and the preparation of certain inorganic and organic compounds. Prerequisite: CHEM 4023.
5723. **X-Ray Diffraction.** (1-4) Credit 3. Principles and operation of modern X-ray apparatus. Applications to inorganic, organic and physical chemistry. Identification of solid phases and determination of crystal size. Prerequisite: CHEM 4023.
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. Prerequisites: CHEM 4013-4023 and MATH 3073-4013.
5743. **Chemical Thermodynamics.** (3-0) Credit 3. A rigorous presentation of classical thermodynamics. The application of the laws of thermodynamic 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 physico-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 instructor.
5783. **Advanced Physical Chemistry.** (3-0) Credit 3. A lecture course dealing with advanced topics of special interest in modern physical chemistry, 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 the level of differential equations.
- 5991-5992-5993-5996. **Independent Study.** (0-0) Credit 1, 2, 3 or 6. Readings, research, and/or field work on selected topics. Prerequisite: Consent of advisor.

Department of English and Foreign Languages

ADMINISTRATIVE OFFICER

E. Joahanne Thomas, B.S., M.A., Ed.D.

Department Head

INSTRUCTIONAL ORGANIZATION

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

| <i>Program</i> | <i>Degree</i> |
|----------------|---------------|
| 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 TO PROGRAM

For admission to the program, a student should present a minimum of 24 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.

ADVANCEMENT TO CANDIDACY

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 are not met at this time, 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, a minimum of 30 must be taken on the 5000 level and 27 must be taken at this University. In addition to the M.A. degree in English, the department offers an 18-hour English academic specialization program for students seeking secondary teaching certification through the College of Education. Admission

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requirements and other information on this program may be obtained from the Office of Teacher Certification in the College of Education.

Suggested Program

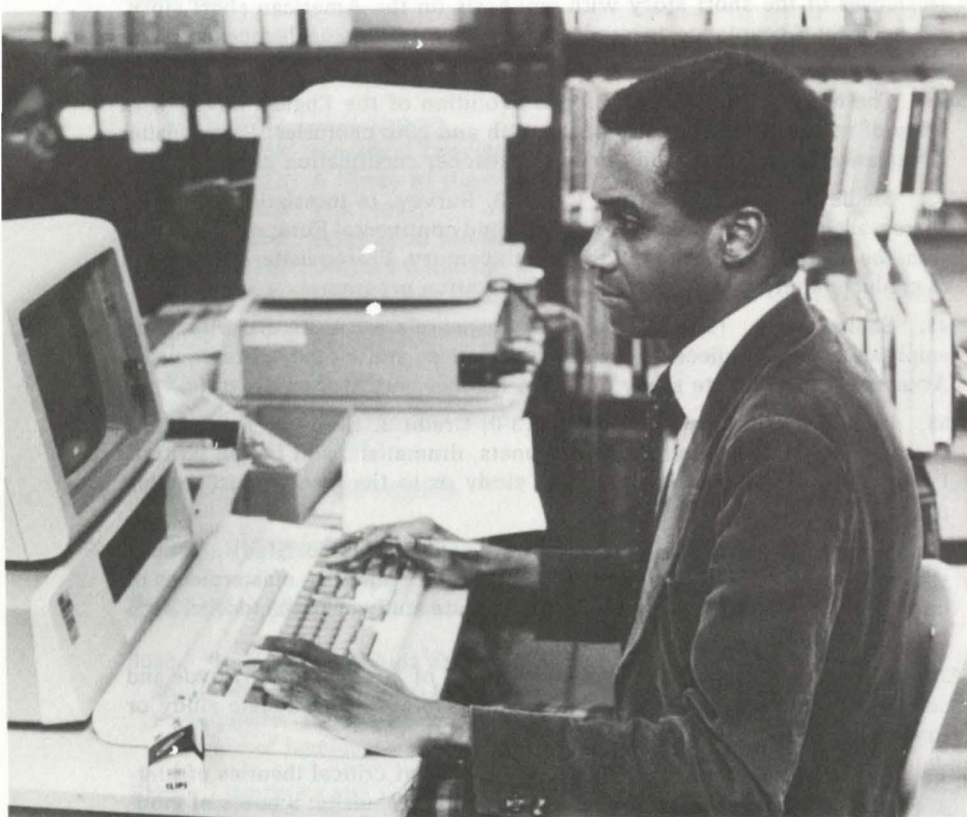
| Language | | Semester Hours |
|----------------------------------|---------------------------------------|--------------------------|
| ENGL 5113 | Linguistics and Grammar | 3 |
| Literature | | |
| ENGL 5243 | Shakespeare | 3 |
| ENGL 5233 | Medieval Literature | 3 |
| ENGL 5213 | A Study of the Short 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 |
| Research | | |
| ENGL 5123 | Research | 3 |
| ENGL 5133 | Seminar in Thesis Writing | 3 |
| ENGL 5273 | Chaucer | 3 |
| Total Degree Requirements | | 33 Semester Hours |

DESCRIPTION OF COURSES

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. **Twentieth 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.
- 5991-5992-5993. **Independent Study.** (0-0) Credit 1, 2 or 3. Readings, research, and/or field work on selected topics. Prerequisite: Consent of department head.



Department of Mathematics and Computer Science

ADMINISTRATIVE OFFICER

Frank T. Hawkins, B.S., M.S., M.A.T., Ed.D.
Department Head

INSTRUCTIONAL ORGANIZATION

The Department of Mathematics and Computer Science offers the following graduate degree program:

| <i>Program</i> | <i>Degree</i> |
|----------------|---------------|
| Mathematics | 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 in mathematics to other degree programs.

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), with maintenance of at least a "B" average and with no grade below "C". These hours must include:

| | |
|-------------------------------|----|
| MATH 5003 General Topology I | 3 |
| MATH 5013 General Topology II | 3 |
| MATH 5023 Complex Analysis | 3 |
| MATH 5033 Complex Analysis II | 3 |
| MATH 5903 Modern Algebra | 3 |
| MATH 5913 Real Variables | 3 |
| Approved Electives | 12 |
| Thesis | 6 |

Total Degree Requirements 36 Semester Hours

*An applicant seeking a master's degree should plan a degree program with a graduate advisor.

DESCRIPTORS OF COURSES

Mathematics (MATH)

5003. **General Topology I.** (3-0) Credit 3. Introduction to the variations of compactness, separability, etc; with an introduction to the reasonable variety of properties and the value of each, as well as the exact relationships between the properties.
5013. **General Topology II.** (3-0) Credit 3. Compactness, function spaces, complete spaces, homotopy, topology in E^n , homotopy type, maps into spheres, path spaces, and fiber spaces.
5023. **Complex Analysis I.** (3-0) Credit 3. Holomorphic functions, complex integration, residue theorem, Taylor series, Laurent series, conformal mapping, and harmonic functions.
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 5613.
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. **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 Zdecimal representation. Prerequisite: MATH 2034.
5133. **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.
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. Applications of partial differential equations to problems, including heat flow, fluid flow, electric fields, mechanical vibration, and similar problems arising in chemistry, physics, radiotheory, 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. Prerequisite: 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 2034.
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 2034.
5723. **Partial Differential Equations.** (3-0) Credit 3. Basic concepts; techniques for solving first and second order partial differential equations; wave equations; the potential equation; the heat equation; approximate (numerical) solutions; and existence and uniqueness theorems.
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: Three courses in calculus or 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.

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- 5773. Advanced Analysis.** (3-0) Credit 3. Continuous functions of several numbers; properties of functions of several numbers; the double integral; and the Riemann-Stieltjes integral. Prerequisite: MATH 5723.
- 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.
- 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 4053.
- 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 5753.
- 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.

Department of Physics

ADMINISTRATIVE OFFICER

Cleo L. Bentley, B.S., M.S., Ph.D.
Department Head

INSTRUCTIONAL ORGANIZATION

The Department of Physics does not offer a graduate degree program, but does provide graduate support courses in physics and physical science.

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.
- 5043. Earth Sciences I.** (3-0) Credit 3. Introduction to astronomy for teachers of science and mathematics in secondary schools. Considers the celestial sphere and coordinates thereon; measures of time; the solar system including the earth, moon, planets, comets, meteors, satellites, and the sun.
- 5053. Earth Sciences II.** (3-0) Credit 3. Introduction to geology and weather. For teachers. General principles of geology, physiography. Covers geologic processes and an introduction to historical geology and the fundamental principles of weather.
- 6013-6023. Concepts in Physical Science.** (2-2) Credit 3 each. Deals with the physical, chemical and electrical characteristics of matter. Special emphasis will be placed on experimentation, demonstrations and new approaches in the teaching of physical sciences. The course is primarily designed for in-service secondary teachers. Prerequisite: 1 course in physical science or consent of instructor.

Physics (PHYS)

- 5013-5023. Physics for the In-Service Teacher.** (2-3) Credit 3 each. 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.

Social Theory. (3-0) Credit 3. This course is designed to introduce the student to the various theories of social theory, the various concepts, methods, and techniques of social research, and the various applications of social theory.

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

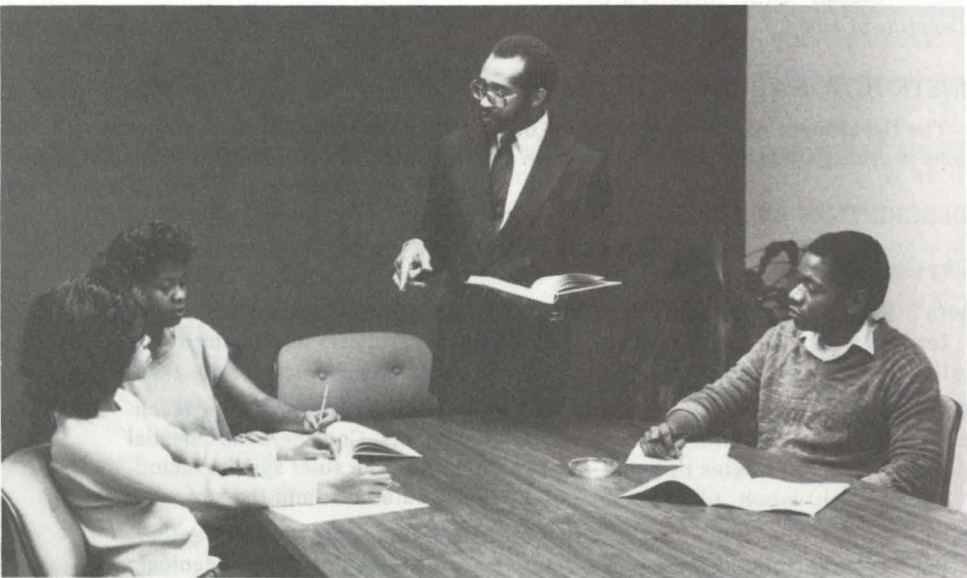
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Department of Social Work and Sociology

ADMINISTRATIVE OFFICER

Sarah R. Williams, B.S., M.S.W., Ph.D.
Department Head

INSTRUCTIONAL ORGANIZATION

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

| <i>Program</i> | <i>Degree Offered</i> |
|----------------|-----------------------|
| Sociology | M.A. |

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

PROGRAM REQUIREMENTS (M.A. - Sociology)

MAJOR: A minimum of 30 hours of graduate sociology courses, plus the completion of a thesis;

or

A minimum of 36 hours of graduate sociology courses with no thesis required.

MINOR: A minimum of 9 hours of graduate sociology courses chosen from:

- SOCG 5213 Social Theory
- SOCG 5223 Social Research
- SOCG 5263 Sociology of Education
- SOCG 5284 Aspects of Poverty
- SOCG 5293 Social Disorganization
- SOCG 5333 Criminology
- SOCG 5353 Race and Ethnic Relations
- Electives (9 - 15 hours)

DESCRIPTION OF COURSES

Sociology (SOCG)

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.

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- 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.** (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.
- 5284. Aspects of Poverty.** (4-0) Credit 4. This course presents 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.
- 5314. Sociology for Community Work.** (4-0) Credit 4. 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, Gender and Ethnic Relations.** (3-0) Credit 3. A study of race, gender and ethnic relations. The course deals mostly with groups in the United States, but does yield cross-cultural perspectives.
- 5991-5992-5993-5996. Independent Study.** (0-0) Credit 1, 2, 3 or 6. Readings, research and/or field work on selected topics. Prerequisite: Consent of advisor.

Division of Social and Political Sciences

ADMINISTRATIVE OFFICER

George Woolfolk, B.A., M.A., Ph.D.
Division Head

Instructional Organization

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

| <i>Program</i> | <i>Degree Offered</i> |
|----------------|-----------------------|
| History | M.A. |

The Division also provides graduate support courses in geography and political science. Graduate coursework in social studies may also be applied to a master's degree program in education with a concentration in social studies. Students seeking this option should apply for admission to the College of Education.

ADMISSION TO PROGRAM

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; (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 attendant upon 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 two 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.

Students must meet all general requirements, complete all program-required courses, and present satisfactory research investigation at the master's level before submitting official application for graduation or admission to candidacy.

PROGRAM REQUIREMENTS (M.A. - History)

MAJOR: *21 semester hours, consisting of:*

- HIST 5023 Methods of Teaching History
- HIST 5903 Thesis
- HIST 5923 Tools of Scientific History

and 12 hours from any one or more of these three fields of specialization:

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
- 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

and 15 semester hours in the minor field.

Total Degree Requirements

36 Semester Hours

DESCRIPTION OF COURSES

Geography (GEOG)

5013-5023. Geography of the Environment I and II. (3-0) Credit 3 each. The relationship of geography to other fields of knowledge concerned with man and his adjustments to living conditions. The use of geographic premises in the analysis of major industries. Tools of geography, space relations, weather, climate, vegetation, soils, landforms, population distribution, power, and mineral resources. Prerequisite: 12 hours in the social sciences (undergraduate and/or graduate).

5033. Industrial and Commercial Geography. (3-0) Credit 3. Fundamental geographic factors which enter into the production, distribution, and consumption of raw materials, food, clothing, shelter, metals, minerals and fuels; fundamentals of manufacturing and principles of commerce.

- 5043. Cartography and Graphics.** (3-0) Credit 3. Advanced statistical mapping techniques, with emphasis on the mapping of population and settlement. Measures of distribution. History of cartography.
- 5053. Behavioral Geography.** (3-0) Credit 3. Analyzes the distinctive contribution of geography to education on elementary and secondary levels. Discusses teaching resources and organization of materials, textbooks, and tests. Designed for teachers of geography, social studies, and related fields.
- 5713. Geography of Texas.** (3-0) Credit 3. Geographical survey of physical resources, population, and commercial production in Texas. The geographical conditions and human adjustments in the major areas or regions of Texas. The natural routes of communication, resources and strategic location in their geographical and historical aspects. Optional field trips.
- 5723. World Regional Geography.** (3-0) Credit 3. World regions as the home of man: a practical, logical, and systematic approach to the field of geography; a survey of the world in terms of outlook and regional types.
- 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.

History (HIST)

- 5013. Library Techniques.** (3-0) Credit 3. This course is designed to develop skill in the use of library resources, specialized reference tools and current resource materials in social studies. Emphasis is on building resource materials for study and on skill development in social studies through the use of multiple resources.
- 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. Lectures, projects, readings, tests and laboratory experiences.
- 5033. Seminar.** (3-0) Credit 3. In lieu of a thesis, student is required to develop a course of study in one of the major areas of the social studies and teach a unit in a laboratory classroom. Prerequisite: HIST 5023.
- 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 American's history. In examining that history, the course investigates the stereotyped views that have been handed down from one generation to the next, slanted accounts of black experience, apathy of many blacks and prejudices of many whites.
- 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*. Special reports and research projects are required. 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. Lectures, discussion, and reports.
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. Lectures, discussions, readings, and special reports.
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. Lectures, discussions, readings, and special reports.
5363. **Contemporary United States.** (3-0) Credit 3. Twentieth century American development thus: 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. Lectures, discussions, and special reports.
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 to 1889 and challenges to those principles since 1889. Readings, oral and written reports and research projects.
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.
- 5533. England, 1914.** (3-0) Credit 3. World War I, Britain between wars, the fight for survival. Global War, labor and welfare state, conservatives in power, labor again in power, Empire to Commonwealth, society in contemporary Britain. 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. Lectures, discussions, and special reports.
- 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 Greece, Rome, Feudalism, Renaissance and Reformation. Lectures, reading, tests, and special reports.
- 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 in the period of rational liberalism and nationalism, the French Revolution, nineteenth century English liberalism, nationalistic unifications, socialism, imperialism, and twentieth century fascism and democracy. Lectures, readings, tests and special reports.
- 5833. Imperialism.** (3-0) Credit 3. The era of modern imperialism, with its causes, results, and techniques, is developed under the following areas of investigation: Development and theories of Imperialism in the scholarship of the field, 1870 to 1920; Humanitarianism: Imperialism and Liberalism, 1870 to 1920, with special reference to natural, human and cultural resources; Neo-mercantilism or "Vampire" Imperialism, 1920 to the Present, with special reference to totalitarianism of the left and the right in the approach to natural, human, and cultural resources. Lectures, discussions, research reports and papers.
- 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. Lectures, discussions, special readings, and special reports.

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- 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. Lectures, laboratory exercises, special reports, and tests.
- 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.

Political Science (POSC)

- 5103. Propaganda, Public Opinion, and Pressure Groups.** (3-0) Credit 3. Functions and techniques of pressure groups; and the nature, role, and identification of public opinion and propaganda.
- 5113. Municipal Administration and Politics.** (3-0) Credit 3. An examination of the organization, planning, and problems of municipal administration and government; and operation of the policy-making process at the municipal level.
- 5123. The Constitution and Private Rights.** (3-0) Credit 3. Rights and duties of United States citizenship; and crucial issues of individual freedom, subversion, loyalty, and governmental authority as adjudicated by federal courts.
- 5133. American Constitutional Law.** (3-0) Credit 3. Basic principles of the American constitutional system; and judicial interpretation and application of those principles in construing powers of government and the rights of persons.
- 5143. Seminar in American Political Thought.** (3-0) Credit 3. The theoretical adaptations and modifications of historic democratic concepts of government by leading American theorists.
- 5153. The Presidency.** (3-0) Credit 3. Evolution of the office of the President of the United States: the President's powers in the areas of politics, administration, legislation, war, and foreign affairs.
- 5163. Public Personnel Administration.** (3-0) Credit 3. Development and problems of the public service; and recruitment, examination, placement, remuneration, morale, retirement, loyalty, and responsibility of public servants.
- 5203. Bibliography and Methods in Political Science.** (3-0) Credit 3. The discipline, its authorities, and its methodology. The use of public documents and other source materials. (Required of all majors in Political Science.)
- 5303. Ancient and Medieval Political Theory.** (3-0) Credit 3. Political theories of the Greek, Roman, and medieval European thinkers; with special attention to Plato, Aristotle, St. Augustine, John of Salisbury, St. Thomas Aquinas, and Dante.
- 5313. Modern Political Theory.** (3-0) Credit 3. Political theories from the Reformation to the present; with special attention to Machiavelli, Bodin, Hobbes, Montesquieu, Rousseau, the Mills, Hegel, Marx, and the socialist theories.

- 5503. International Organization.** (3-0) Credit 3. Development of international organizations and major problems of participation experienced by the United States.
- 5513. Seminar in American Foreign Policy.** (3-0) Credit 3. Analytical and historical study of the content of government machinery and political processes in the formulation of American foreign policy.
- 5523. Seminar in Areal Politics.** (3-0) Credit 3. An analysis of the international implications of domestic and foreign policies pursued by countries located in Asia, Europe, Africa, and Latin America.

Social Science (SOSC)

- 5113. Social Studies in Secondary Schools.** (3-0) Credit 3. Methods and devices for teaching history, economics, sociology and political science, as well as various social studies on the secondary level. Guidance in selection and use of appropriate instructional materials.
- 5223. Social Studies in Elementary Schools.** (3-0) Credit 3. Organization of subject matter and development of materials as a continuous process in appraising the child's learning.

International Organization (I-O) Grant & Development of Intern...
...and major projects of central interest, sponsored by the
...of the organization.



...at the University of California, Berkeley, and the University of Texas at Austin.

1980 - The Presidency - John G. C. ... of the United States, the Presidency ...
...and foreign policy.

1981 - Public Administration - ... of the public sector and ...
...and ...

1982 - Bureaucracy and Methods in Public ...
...and other ...

1983 - Social and Historical Political Theory - ...
...and ...

1984 - Modern Political Theory - ...
...and ...

College of Business

ADMINISTRATIVE OFFICER

Bernice R. Rollins, B.S., M.S., Ed.D.
Dean

INSTRUCTIONAL ORGANIZATION

The College of Business offers the following graduate degree programs:

| <i>Department</i> | <i>Degrees Offered</i> |
|---------------------------------|------------------------|
| Economics | M.A. |
| General Business Administration | M.B.A. |

The College also provides graduate support courses in these areas as well as accounting, finance, management and marketing. Graduate coursework in economics and business education may also be applied to a master's degree program in education with a concentration in economics or business education. Students seeking this option should apply for admission to the College of Education.

ADMISSION TO PROGRAM

Students desiring admission to the graduate programs 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 a Master's program in the College of Business. In the determination of 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 4.00 scale, or the equivalent.
2. An acceptable score on the Graduate Record Examination (GRE) for the M.A. in Economics and an acceptable score on the Graduate Management Admission Test (GMAT) for M.B.A. program. The acceptable score on the GMAT is defined as 950 less two times the cumulative undergraduate Grade Point Average.

Conditional acceptance may be granted if one of the above criteria has not been satisfied at the time action is taken on the request. For those students granted conditional acceptance, ONE semester ONLY will be allowed to satisfy the conditions of admission. Unless the conditions under which one is admitted are satisfied during the first semester one is enrolled, the student will be denied the opportunity to re-enroll as a graduate student in the College of Business. The status is automatically changed to non-degree/special.

3. Students failing to meet the criteria for admission may be allowed to enroll as special students in the Graduate School. Special student status, however, does not entitle one to pursue a graduate degree in the College of Business. If one is granted a special student status and earns a Grade Point Average of at least 3.2 during the first 12 hours earned at Prairie View A&M University and scores a minimum of 450

on the GMAT, the student may petition the Dean of the College of Business for admission to graduate status.

Applicants may petition the Graduate Dean and the Dean of the College of Business for acceptance of the hours earned as a special student toward a Master's degree in Business. However, acceptance is not automatic. Under any circumstance, ONLY 9 hours earned as a SPECIAL STUDENT may be applied toward a degree in business.

ADVANCEMENT TO CANDIDACY

Retention in the Master's Degree Program. For retention in the Master's program in the College of Business, each student must comply with the following:

1. Satisfy the conditions of admission during the first semester enrolled at Prairie View A&M University if admitted as a CONDITIONAL GRADUATE student.
2. Maintain an overall Grade Point Average of 3.0. A maximum of two "C's" will be allowed; students will be dismissed from the Master's program in the College of Business when the third "C" has been earned.

Admission to Candidacy. Admission as an applicant for one of 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 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 College of Business Dean'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". Any graduate course in which a grade less than a "C" has been earned must be repeated.
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.

Department of Economics and Finance

The Department of Economics and Finance offers courses leading to the awarding of the Master of Arts degree in Economics, graduate courses as part of the Core for the M.B.A. degree, and advanced courses for the areas of specialization in Finance and Economics for the M.B.A. degree.

PROGRAM REQUIREMENTS (M.A. - Economics)

A major in Economics requires at least 21 semester hours of course work in Economics, 9 semester hours of electives (taken in one area of specialization), and a thesis. Suggested courses for the M.A. degree with a major in Economics are:

| | Hrs |
|---------------------------------|-----|
| ECON 5013 Microeconomic Theory | 3 |
| ECON 5023 Macroeconomic Theory | 3 |
| ECON 5223 Mathematics Economics | 3 |
| ECON 5353 Money and Banking | 3 |
| Economics Electives | 9 |
| Electives | 9 |

DESCRIPTION OF COURSES

Economics (ECON)

- 5013. Microeconomic Theory.** (3-0) Credit 3. Critical analysis of neoclassical price and production theories. Demand, cost of production, and price determination under various conditions of the market.
- 5023. Macroeconomic Theory.** (3-0) Credit 3. Classical Keynesian and Post-Keynesian aggregate income and employment analysis. Determination of price level and interest rate.
- 5213. Economic Theory.** (3-0) Credit 3. Development of economic analysis from the 17th century to the present, with emphasis on the economic role of the state and other institutions and on the philosophical background of economic doctrines. Prerequisite: Consent of the advisor.
- 5223. Mathematics Economics.** (3-0) Credit 3. Mathematical investigation of economic concepts and models.
- 5313. Economic History.** (3-0) Credit 3. Development of wage system, expansion of businesses and markets, industrial revolution, and industrial development from the colonial times to present.
- 5323. International Trade.** (3-0) Credit 3. Case studies of the contribution to international economic theory of Mercantilists, Hume, Smith, Ricardo, Mill, and others. Problems of balance of payments; trade policies of major nations; and international economic institutions in theory and practice. A

COLLEGE OF BUSINESS

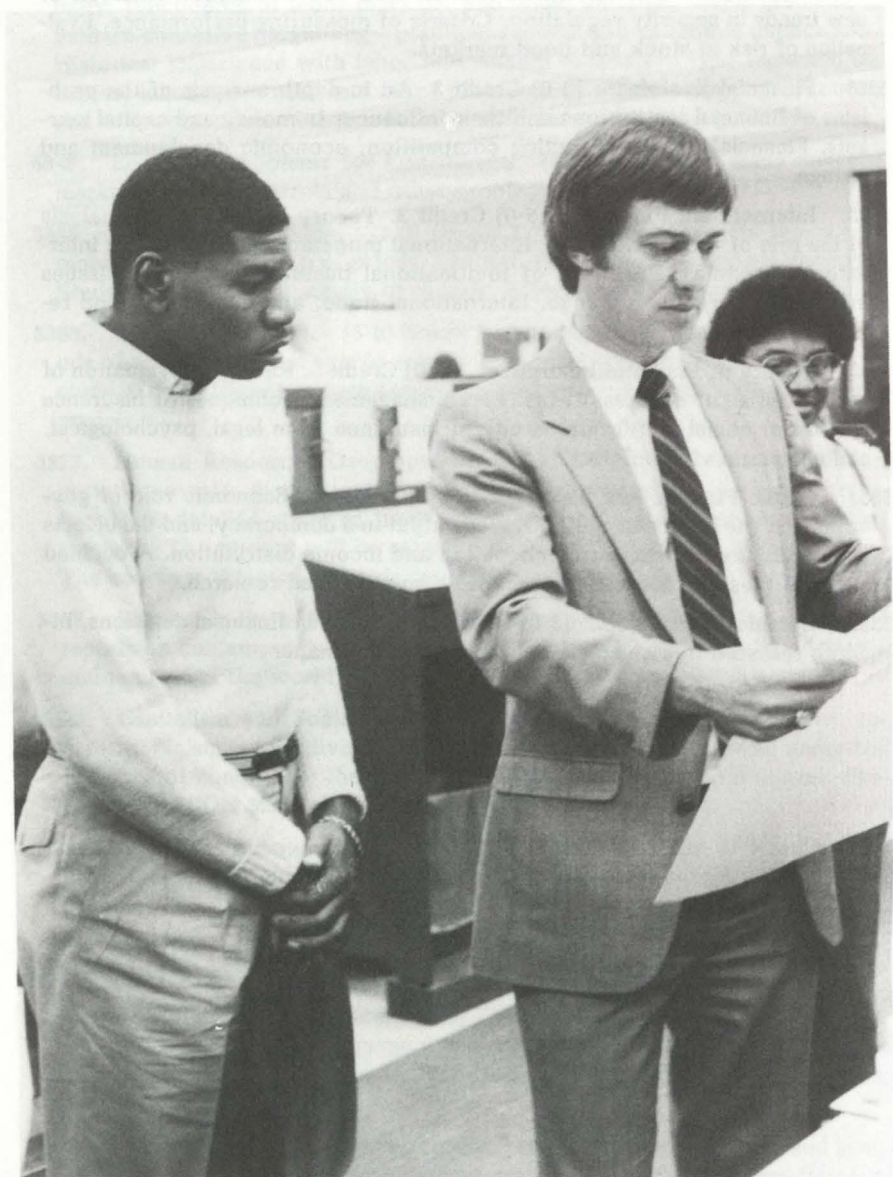
study of the history of the forces shaping United States foreign economic policy.

- 5333. Labor Problems.** (3-0) Credit 3. Economic and social forces determining labor supply and demand, labor finance, unemployment, labor mobility, functioning of labor markets, and wage theories. Major problems in modern collective bargaining—practical aspects and economic implications. Historical experience with labor movements in western type industrial societies; labor movement and labor problems in newly emerging countries; and relevance of the western labor movement to developing nations.
- 5343. Economic Problems for Consumers.** (3-0) Credit 3. Family budgets, marketing, price controls and other problems of the consumer.
- 5353. Money and Banking.** (3-0) Credit 3. Major emphasis on the role of money in determination of prices, interest, sales, income, and employment. Study of demand and supply of money. Effectiveness of monetary policy.
- 5363. Economic Growth.** (3-0) Credit 3. A study of the problems and methods of achieving a more rapid rate of economic and social development. A study of the different growth models and the economic implications of these models.
- 5373. Human Resources Development.** (3-0) Credit 3. Covers population growth, poverty, discrimination, migration, education, research, and training. More detailed study of these topics and more emphasis on published research. The student will be asked to investigate one topic of this course. The course is oriented towards research and methodology.
- 5383. Seminar in Economics.** (3-0) Credit 3. Informal discussion of student reports on contemporary socioeconomic problems facing the United States and the rest of the world.
- 5423. Capitalism and Socialism.** (3-0) Credit 3. Capitalism, unionism, socialism, facism, and individualistic anticapitalism; each is viewed under the headings of conditions, theories, and movements. A research course. Prerequisite: ECON 5333 and the consent of the instructor.
- 5991-5992-5993. Independent Study.** (0-0) Credit 1, 2 or 3. Reading, research, and/or field work on selected topics. Prerequisite: Consent of advisor.

Finance (FINA)

- 5003. Introduction to Finance.** (3-0) Credit 3. Corporate organization and control; security; the management of fixed capital, working capital, working capital reserve, and surplus and dividend policies; and investment banking and the securities market.
- 5103. Theory of Financial Management.** (3-0) Credit 3. Principles and practices influencing the decision-making responsibility for business financial operations. Financial analysis, planning and control; long-term investment decisions; financial structure and cost of capital; working capital management; and long-term external financing.

5303. **Managerial Decisions in Finance.** (3-0) Credit 3. Concerned with managerial problems of the financial manager, with the emphasis on financial analysis, current asset management, capital budgeting and capital structure.
5313. **Investment Theory and Portfolio Management.** (3-0) Credit 3. Study of advanced portfolio management objectives and techniques. Analysis of new trends in security regulation. Criteria of measuring performance. Evaluation of risk in stock and bond markets.
5323. **Financial Systems.** (3-0) Credit 3. An in-depth analysis of the problems of financial institutions and their influences in money and capital markets. Financial factors affecting competition, economic development and change.
5333. **International Finance.** (3-0) Credit 3. Theory and policy on analysis of the role of the world bank, international monetary fund and other international agencies. Problems of multinational business enterprises. Issues involved in foreign exchange, international trade, and devaluation and revaluation of currency of nations.
5343. **Theory of Risk and Insurance.** (3-0) Credit 3. Risks and evaluation of various types of business firms. Risk management techniques of insurance as a major social institution. Study of insurance from legal, psychological, and economic viewpoints.
5353. **Public Finance and Taxation.** (3-0) Credit 3. Economic role of governments, the choice of public sector output in a democracy, and the effects of various taxes on resource allocation and income distribution. A detailed study of these topics with an emphasis on published research.
5383. **Seminar in Finance.** (3-0) Credit 3. Seminar in financial decisions. In-depth research in a selected field of corporate finance.



Financial analysis, planning and control are key to the success of any business. The three men in the photograph are working together to analyze the financial statements of a company.

Department of General Business Administration

ADMINISTRATIVE OFFICER

Dorisula W. Hawkins, B.S., M.S., Ed.D.

Department Head

The Department of General Business Administration is the administrative unit for the Master of Business Administration degree. It offers courses for the specialization in business education for the Master of Education degree in Curriculum and Instruction, and graduate courses as part of the Core for the M.B.A. degree.

PROGRAM REQUIREMENTS (M.B.A.)

The M.B.A. provides broad preparation for management, with analytical techniques emphasized because of their importance in modern decision-making. The M.B.A. degree program consists of courses which make up a common body of knowledge—36-51 credit hours—of advanced courses in Accounting, Economics, Finance, or Management. Suggested electives for the 9-12 hour concentration may be secured from the specific departmental sections.

Prerequisites. A Bachelor's degree from an approved institution, including at least 27 semester hours in business administration courses, is needed for graduate study. The M.B.A. degree program requires, as a minimum background, courses equivalent in content to those courses required of the undergraduate business majors at Prairie View in the areas of:

| | Hrs |
|--------------------------|-----|
| Statistical Analysis | 3 |
| Accounting Principles | 6 |
| Finance | 3 |
| Principles of Management | 3 |
| Principles of Marketing | 3 |
| Principles of Economics | 6 |
| Computer Programming | 3 |

Graduate students should, if at all possible, remove any deficiencies by completing courses at the 5000 level which are designed for this purpose. Considering the above prerequisites, students may pursue one of two plans:

PLAN I

| | Hrs |
|---|-----|
| ACCT 5003 Financial Accounting | 3 |
| BSAD 5013 Legal Environment of Business | 3 |
| ECON 5013 Microeconomics Theory | 3 |
| ECON 5023 Macroeconomics Theory | 3 |
| FINA 5003 Introduction to Finance | 3 |
| MRKT 5003 Advanced Marketing | 3 |
| MGMT 5003 The Management Process | 3 |

COLLEGE OF BUSINESS

| | | |
|-----------|--|---|
| ACCT 5103 | Managerial Accounting | 3 |
| MGMT 5333 | Problems in Manpower Management | 3 |
| BSAD 5113 | Business Statistics | 3 |
| BSAD 5123 | Quantitative Analysis | 3 |
| FINA 5103 | Theory of Financial Management | 3 |
| MRKT 5303 | Marketing Management | 3 |
| | Electives (One area of specialization) | 9 |

PLAN II

| | | |
|-----------|--|----|
| ACCT 5103 | Managerial Accounting | 3 |
| BSAD 5113 | Business Statistics | 3 |
| BSAD 5123 | Quantitative Analysis | 3 |
| FINA 5103 | Theory of Financial Management | 3 |
| MRKT 5303 | Marketing Management | 3 |
| MGMT 5103 | Organizational Theory | 3 |
| MGMT 5333 | Problems in Manpower Development | 3 |
| FINA 5303 | Managerial Finance | 3 |
| | Electives (One area of specialization) | 12 |

NOTE: All M.B.A students must show evidence of having taken a course in Computer Science. This may be shown at the undergraduate level or by enrolling for BSAD 5003. BSAD 5003, however, will NOT serve to meet a major course requirement nor serve as an elective in either of the degree plans.

All M.B.A. students must show evidence of proficiency in written and oral communication. Students may be required to take additional courses in communications based on test results or upon recommendations of major advisors or instructors.

The above programs are flexible—depending upon one's undergraduate degree or post-graduate studies prior to entering as a degree applicant.

Suggested Program

Master of Business Administration (M.B.A.)

PLAN I*

| First Semester | Hrs | Second Semester | Hrs |
|---------------------------|-----|-------------------------|-----|
| ACCT 5003 | 3 | ACCT 5103 | 3 |
| Financial Accounting | | Managerial Accounting | |
| MGMT 5003 | 3 | MGMT 5333 | 3 |
| The Management Process | | Problems in Manpower | |
| MRKT 5003 | 3 | Management | |
| Introduction to Marketing | | MRKT 5303 | 3 |
| BSAD 5013 | 3 | Marketing Management | |
| Legal Environment | | FINA 5003 | 3 |
| | | Introduction to Finance | |
| | 12 | | 12 |

*Students who have not taken a course in computer programming should enroll for BSAD 5003, Computer Programming, during the first or second semester.

| Third Semester | Hrs | Fourth Semester | Hrs |
|--------------------------------|-----|-----------------------|-----|
| ECON 5013 | 3 | ECON 5023 | 3 |
| Microeconomic Theory | | Macroeconomic Theory | |
| BSAD 5113 | 3 | BSAD 5123 | 3 |
| Business Statistics | | Quantitative Analysis | |
| FINA 5103 | 3 | Electives..... | 6 |
| Theory of Financial Management | | | |
| Electives..... | 3 | | |
| | 12 | | 12 |

PLAN II

No specific schematic plan is recommended for students with an undergraduate degree in business administration admitted to Plan II. However, students are cautioned to take prerequisite courses before enrolling in advanced level courses. In general, the courses in any area of specialization should be taken in numerical sequence.

M.B.A. Specialization (Accounting). Suggested courses for the concentration in Accounting as part of the M.B.A. degree are:

| | Hrs |
|--|-----|
| ACCT 5313 Seminar in Tax Planning | 3 |
| ACCT 5213 Accounting Theory | 3 |
| ACCT 5323 Contemporary Accounting Topics | 3 |
| ACCT 5333 Seminar in Tax Problems | 3 |
| or | |
| ACCT 5343 Managerial Acct Analysis | 3 |

M.B.A. Specialization (Economics): Suggested courses for concentration in Economics as part of the M.B.A. degree are:

| | Hrs |
|-----------------------------|-----|
| ECON 5223 Math Economics | 3 |
| ECON 5353 Money and Banking | 3 |
| Economics Electives | 3-6 |

M.B.A. Specialization (Finance): Suggested courses for concentration in Finance as a part of the M.B.A. degree are:

| | Hrs |
|---------------------------------------|-----|
| FINA 5313 Investment Theory | 3 |
| FINA 5353 Public Finance and Taxation | 3 |
| Finance Electives | 3-6 |

M.B.A. Specialization (Management). Suggested courses for concentration in management as part of the M.B.A. degree are:

| | Hrs |
|---|-----|
| MGMT 5323 Strategy and Policy Formulation | 3 |
| MGMT 5343 Personnel Management | 3 |
| Management Electives | 3-6 |

M.B.A. Specialization (Marketing). Not available.

DESCRIPTION OF COURSES

Accounting (ACCT)

- 5003. Financial Accounting.** (3-0) Credit 3. A survey of fundamental concepts of financial accounting with special emphasis upon the interpretation and use of financial accounting data for evaluative and administrative purposes.
- 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.
- 5213. Accounting Theory.** (3-0) Credit 3. Critical evaluation of theory structure in accounting. Study of the criteria for choices among income-determination and asset-valuation rules for public reporting. Prerequisite: ACCT 5103.
- 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 and individuals. Prerequisite: ACCT 5103.
- 5323. Contemporary Accounting Topics.** (3-0) Credit 3. Critical examination of subject matter presented in current periodicals and bulletins in the field of accounting. Prerequisite: ACCT 5103.
- 5333. Seminar in Tax Problems.** (3-0) Credit 3. Accounting for corporate combinations and affiliations, reorganizations and personal holding companies. Prerequisite: ACCT 5103.
- 5343. Managerial Accounting Analysis.** (3-0) Credit 3. Study of the uses and limitations of cost analysis in managerial decision-making and control. Emphasis placed on planning relevant costs, capital budgeting, inventory planning and control. Prerequisite: ACCT 5103.

Business Administration (BSAD)

- 5003. Computer Applications for Management.** (3-0) Credit 3. Computer concepts and programming. Computer systems, data processing techniques, problem analysis and design, data structures, and the application and research potential of computers in the business environment. For the graduate student who lacks proficiency in the area of computer applications in business.
- 5013. Legal Environment of Business.** (3-0) Credit 3. Designed to introduce the student to the legal environment in which business decisions are made. An introduction to business organizations, torts, government regulations, taxation, and the legal profession.

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 and economic 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: BSAD 5113.
5313. **Issues and Trends.** (3-0) Credit 3. A study of current issues and trends in business and their influence on the economy.
5323. **MBA Seminar.** (3-0) Credit 3. Contemporary topics from functional areas of business.
5333. **Directed Research.** (3-0) Credit 3. Special projects consisting of individual work suited to the needs and interests of the students.
5383. **Seminar.** (3-0) Credit 3. Cooperative research on one or more economic problems, each member of the class concentrating on a selected phase of the common subject.
- 5393-5396. **Internship.** (0-0) Credit 3 or 6. A supervised, productive, and educationally meaningful work experience in a job which relates to the student's career objective.
- 5991-5992-5993. **Independent Study.** (0-0) Credit 1, 2 or 3. Reading, research, and/or field work on selected topics. Prerequisite: Consent of advisor.

Business Education (BSED)

5303. **Workshop in Business Education.** (3-0) Credit 3. Emphasizes the development of current teaching methods and materials in business education. Group organization and planning, followed by the selection of projects of individual and group study, lectures, demonstrations, committee work, individual conferences, etc.
5313. **Advanced Methods of Teaching Business.** (3-0) Credit 3. Consideration is given to intensive review of subject content, selection of objectives and instructional materials, techniques and procedures in presenting educational activities, and evaluating teacher effectiveness in typewriting, shorthand, bookkeeping, accounting, basic business subjects, and distributive education.
5323. **Curriculum Construction.** (3-0) Credit 3. Criteria for solving curricular problems are studied and applied in devising business education curricula for the secondary school and in appraising present school offerings.
5333. **Improvement of Instruction.** (3-0) Credit 3. Methods of instruction, organization, and presentation of appropriate content in skill subjects. Psychology of skill building and techniques of office production.
5343. **Methods of Teaching Business and Economics.** (3-0) Credit 3. Methods of instruction, organization, and presentation of subject matter of basic business, economic education, and closely allied fields.

COLLEGE OF BUSINESS

- 5353. Special Problems.** (3-0) Credit 3. Open to graduate students who are capable of developing a problem independently. Problem chosen by the student and developed through conferences and activities under the direction of the instructor.
- 5383. Seminar.** (3-0) Credit 3. Open to graduate students in the field of business. Selection of one major area of business education for study in terms of methods, materials, research, and curricular problems. Instructor assisted by other members of the business faculty, staff, and guest lecturers.
- 5483. Thesis Research.** (3-0) Credit 3. Research methods and procedures; statistical treatment of findings, planning, writing, analyzing and review of selected research. Business education majors will identify their research papers or thesis topic in this course and begin writing.
- 5493. Thesis Writing.** (0-0) Credit 3. Independent research on thesis problem approved by major advisor and the Department Head. Students must enroll continuously until thesis is completed.
- 5991-5992-5993. Independent Study.** (0-0) Credit 1, 2 or 3. Reading, research, and/or field work on selected topics. Prerequisite: Consent of advisor.

Management (MGMT)

- 5003. The Management Process.** (3-0) Credit 3. Examines major concepts, theories, and practices in management. Topics include theories of management, decision-making of organizational structures, human factors, decision theory and behavior, measurement and control. Examines key aspects of the manager's role and provides framework for decisions and action. Prerequisite: MGMT 5413.
- 5103. Organizational Theory.** (3-0) Credit 3. The theory of organization and the human element of management within structures established to carry out objectives of business enterprises. Focus is placed on the systematic interrelationship of economic, technological, psychological, and sociological variables which are useful in discerning, predicting, and influencing the behavior of an organization. Prerequisites: MGMT 5413, 5003.
- 5313. Organizational Decision-Making.** (3-0) Credit 3. An examination of the interactions of the groups of individuals making up the organization as they decide, act, and are acted upon in carrying out their responsibilities. Decision and organizational theory are both utilized in carrying out this exploration. Prerequisites: MGMT 5413. MGMT 5003.
- 5323. Strategy and Policy Formulation.** (3-0) Credit 3. Examines top management strategy, formulation, implementation, and evaluation characteristic of each function; diagnosis of ill-structured problems from private and public sectors; use of analytical methods and models; and organizational change process. Synthesis of functions included in the planning and evaluation strategy of major organizations. Prerequisite: 12 semester hours of management courses.
- 5333. Problems in Manpower Management.** (3-0) Credit 3. Explores forecasting a firm's future manpower requirements, development of the nec-

essary capabilities to meet these requirements, the theory of incentives, and the management of human resources.

- 5343. Personnel Management.** (3-0) Credit 3. An analysis of the techniques and problems of training, recruitment, selection, testing, promotion, specification and description of jobs, and remuneration in the personnel management field.
- 5413. Introduction to Behavioral Science.** (3-0) Credit 3. A study of the social science disciplines relevant to the understanding and prediction of human behavior in organizations. Topics include: individual behavior motivation, perception, and learning; group process; interaction, communications and power; organizational structure, dynamics and change.
- 5513. Management Information Systems.** (3-0) Credit 3. Analysis and synthesis of the principal interactions among the components of a company and its environment; setting of systems requirements; and development of control processes to increase effectiveness. Examines methods of evaluating the effectiveness and efficiency of systems.
- 5991-5992-5993. Independent Study.** (0-0) Credit 1, 2 or 3. Reading, research, and/or field work on selected topics. Prerequisite: Consent of advisor.

Marketing (MRKT)

- 5003. Advanced Marketing.** (3-0) Credit 3. The application of quantitative and behavioral techniques to the strategic planning and evaluation of marketing systems is studied.
- 5303. Marketing Management.** (3-0) Credit 3. An analysis and synthesis of the principal interactions among the components of a company and its environment; setting of system requirements; development of control processes to increase effectiveness. Examines methods of evaluating the effectiveness and efficiency of systems.
- 5313. International Marketing.** (3-0) Credit 3. A study of the problems and policies in the international exchange of goods and services. Economic, political, and cultural differences among nations in the world community.
- 5383. Seminar in Marketing.** (3-0) Credit 3. An intensive analysis of specific marketing problems with special emphasis on research methodology. A critical evaluation of research findings.

College of Education

ADMINISTRATIVE OFFICERS

Louis L. Aikens, B.S., M.Ed., Ph.D.
Acting Dean

William H. Parker, B.S., M.S., Ed.D.
Director, Center for Learning and Teaching Effectiveness

Charles F. Randle, B.S., M.S.
Director, Field Experiences and Student Teaching

Willie F. Trotty, B.S., M.S., Ph.D.
Director, Teacher Certification

INSTRUCTIONAL ORGANIZATION

The College of Education provides programs of study leading to the Master of Arts (M.A.) and Master of Science (M.S.) in Education and the Master of Education 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 endorsement to certificates. Courses are also available for continuing education and professional development.

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

| <i>Departments</i> | <i>Programs</i> | <i>Certificates</i> |
|-------------------------------|--|--|
| Curriculum and Foundations | Curriculum and Instruction Educational Media and Technology Reading Instructional Supervision | Instructional Supervision Learning Resources Specialist Professional Secondary Reading Specialist |
| Elementary Education | Elementary Education Kindergarten Education Special Education | Elementary Education Educational Diagnostician Special Education (L/LD, MRE) Kindergarten Endorsement |
| Health and Physical Education | Health Education Physical Education | Professional Physical Education (All-level) |

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School Services

School Administration Counseling

Mid Management
Professional
Counselor
Professional Special
Educ. Counselor
Professional Voc.
Counselor
Superintendent

Program concentrations in related fields available through the Department of Curriculum and Foundations from other Colleges include:

Biology

Business Education

Chemistry

English

Economics

History

Mathematics

Music

Physics

Social Studies

Sociology

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.

While there is no formal application to the College of Education, departments may require prospective students to submit applications for admission to their programs.

Department of Curriculum and Foundations

ADMINISTRATIVE OFFICER

Marion Henry, B.S., M.S., Ph.D.

Acting Department Head

PROGRAM REQUIREMENTS (M.S. - 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)

Courses to be selected from program concentration of student's choice.

Resource and Research (12 semester hours)

For the M.S. degree:

- EDFN 5143 Advanced Educational Statistics
- EDFN 5903 Thesis
- 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

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.

DESCRIPTION OF COURSES

Curriculum (CURR)

- 5003. Theory and Dynamics of Curriculum and Instruction.** (3-0) Credit 3. An examination of theoretical and logical structures forming the basis for curriculum and instructional decision-making. Consideration of implications for the work of responsible curriculum decision-makers at all levels.
- 5133. Principles of Instructional Design.** (3-0) Credit 3. Development of competencies related to translating general and theoretical knowledge about

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learning and instruction into specifications for instructional materials, devices, or settings.

5143. Managing Classroom Interaction. (3-0) Credit 3. Identification of and 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.

5991-5992-5993. Independent Study. (0-0) Credit 1, 2 or 3. Reading, research, and/or field work on selected topics. Prerequisite: Consent of advisor.

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 and 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.

5133. Measurement and Evaluation of Learning and Instruction. (3-0) Credit 3. In-depth study of testing instruments and techniques commonly applied in classroom teaching environments. Identification and application of interpretative skills, using varied testing formats in the context of case studies.

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.

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 a form of access to information, 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 material.
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.
5483. **Advanced Local Production of Instructional Materials.** (3-0) Credit 3. Instruction in photography, sound, television, and graphs, with application to the development of educational materials.

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 School.** (3-0) Credit 3. Instructional approaches to the teaching of 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.

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.

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.

Department of Elementary Education

ADMINISTRATIVE OFFICER

Helen E. Miller, B.A., M.Ed., Ph.D.

Department Head

PROGRAM REQUIREMENTS (M.S. - Education or M.Ed.)

Suggested Program (Concentration in Elementary 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)

- ELED 5103 Elementary School Curriculum
- ELED 5113 Teaching/Learning Style
- ELED 5123 Research In Elementary Education
- ELED 5133 Seminar in Elementary Education

Resource/ Research (12 semester hours)

For M.S. degree:

- CURR 5143 Managing Classroom Interaction
- EDFN 5143 Advanced Educational Statistics
- EDFN 5903 Thesis
- Electives (3 semester hours)

For M.Ed. degree:

- CURR 5143 Managing Classroom Interaction
- EDFN 5923 Master's Seminar
- Electives (6 semester hours)

Total Degree Requirements

36 Semester Hours

Suggested Program (Concentration in Kindergarten 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

COLLEGE OF EDUCATION

Program Concentration (12 semester hours)

- KNED 5313 Foundations of Kindergarten Education
- KNED 5323 Research in Kindergarten Education
- KNED 5343 Organization and Administration of Programs for Young Children
- KNED 5353 Seminar in Kindergarten

Research/Resource (12 semester hours)

For M.S. degree:

- EDFN 5903 Thesis
- EDFN 5143 Advanced Educational Statistics
- Electives (6 semester hours)

For M.Ed. degree:

- EDFN 5923 Master's Seminar
- KNED 5363 Assessment Techniques in Kindergarten Education
- Electives (6 semester hours)

Total Degree Requirements

36 Semester Hours

Suggested Program (Concentration in Special 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)

- SPED 5213 Introduction to Exceptional Children
- SPED 5273 Learning Theory
- SPED 5283 Curriculum Adjustment
- SPED 5353 Individual Testing of Exceptional Child

Resource/Research (12 semester hours)

For M.S. degree:

- EDFN 5143 Advanced Educational Statistics
- EDFN 5903 Thesis
- Electives (6 semester hours)

For M.Ed. degree:

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

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.

DESCRIPTION OF COURSES

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 the Elementary School.** (3-0) Credit 3. Study of effective instructional performances and effective student learning in the elementary school. Analysis of research findings and experimentations related to teaching/learning situations.
5123. **Research in Elementary Education.** (3-0) Credit 3. Investigation of 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 and problems confronted by elementary teachers.
5143. **Individualizing Instruction in the Elementary School.** (3-0) Credit 3. Evaluation and development of educational software programs in computer activities, self-paced evaluation activities, and logical reasoning activities and materials for diagnostic and prescriptive teaching in the elementary school.
5153. **Communication Problems in the Elementary Classroom.** (3-0) Credit 3. Assessment and correction of communication difficulties in the elementary school classroom. Methods for identifying, assessing and remediating problems in the areas of oral and written communications.
5163. **Teaching Math in the Elementary Grades.** (3-0) Credit 3. Advanced study of methods and materials for the teaching of mathematics in the elementary school. Emphasis on planning, instructional techniques, and evaluation of students' performances.
5173. **Teaching Social Studies in the Elementary Grades.** (3-0) Credit 3. Advanced study of methods and materials for the teaching of elementary social studies. Emphasis on tested and successful strategies for developing decision-making and problem-solving skills.
5183. **Teaching Science in the Elementary Grades.** (3-0) Credit 3. Advanced study of methods and materials for the teaching of elementary science. Laboratory work with equipment and materials suitable for various grade levels.
5193. **Teaching Language Arts in the Elementary School.** (3-0) Credit 3. Advanced study of methods and materials for the teaching of language arts. Emphasis on tested and successful strategies for developing oral and written communication skills.
- 5991-5992-5993. **Independent Study.** (0-0) Credit 1,2,3. Readings, research, and/or field work on selected topics. Prerequisite: Consent of advisor.

Kindergarten Education (KNED)

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 Kindergarten Education.** (3-0) Credit 3. An overview of the historical, philosophical, and theoretical development of kindergarten and its relationship to early childhood education.
5323. **Research in Kindergarten Education.** (3-0) Credit 3. An analysis of the research related to the education of the young child and the implications of this research.
5333. **Kindergarten Practicum.** (3-0) Credit 3. Planned observation and interaction experience with young children in a clinical setting. Organized feedback sessions are provided in structured seminars.
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 kindergarten. A study of the impact of legislation and professional organizations on program operations.
5353. **Seminar in Kindergarten Education.** (3-0) Credit 3. An analysis of current issues in Kindergarten Education in professional literature and problems identified by classroom teachers that relate to the mental, physical, and social growth of the young child and the family.
5363. **Assessment Techniques in Kindergarten 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.

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, 4223, 5243 and consent of Program Coordinator.
5243. **Methods and Materials in Teaching.** (3-0) Credit 3. An in-depth study of various teaching strategies and materials designed to enhance the learning experiences of the learning disabled individual.

5253. **Methods of Teaching the Retarded.** (3-0) Credit 3. Characteristics and needs of the mentally retarded child; principles of adapting curriculum materials and teaching methods to the needs of the retarded child.
5263. **Diagnostic and Prescriptive 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, 5253, 5273, and consent of Program Coordinator.
5273. **Learning Theory.** (3-0) Credit 3. An in-depth study of the various learning theories and an analysis of systematic approaches to learning. Prerequisites: SPED 5213, 5243, 5223, 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.
5293. **Psychology of Reading.** (3-0) Credit 3. To provide the learner with an overview of the various reading problems and/or developmental reading characteristics of the exceptional child. Prerequisite: Consent of Program Coordinator.
5343. **Practicum.** (2-1) Credit 3. Supervised field practice in a school setting with exceptional children. Prerequisite: Consent of Program Coordinator.
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.

Department of Health and Physical Education

ADMINISTRATIVE OFFICER

Leroy G. Moore, B.S., M.S., Ed.D.

Department Head

PROGRAM REQUIREMENTS (M.S. - Education)

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/Resource (12 semester hours)

- PHED 5303 Tests and Measurements in Physical Education
- 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 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.)

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

COLLEGE OF 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/Resource (12 semester hours)

- EDFN 5923 Master's Seminar
- Electives (9 semester hours from the courses listed below):
- PHED 5203 Physiology of Muscular Exercises
- PHED 5303 Tests and Measurements in Physical Education
- PHED 5103 Psychology of Motor Learning
- PHED 5113 Supervision 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.

DESCRIPTION OF COURSES

Health Education (HLED)

- 5033. **Community Planning for Health.** (3-0) Credit 3. Designed to influence and motivate students to develop a clear and positive understanding of contemporary community health problems. Emphasis on attitudes and influences, available health services and environmental health problems, as well as major mental, physical, social and emotional health problems.
- 5043. **Safety Education.** (3-0) Credit 3. The general program of safety education in public schools is presented with special reference to the selection and organization of materials, including the methods and techniques of instruction. First aid, visual aids, safety projects, special programs, and the utilization of outside agencies are discussed.
- 5063. **Mental Hygiene.** (3-0) Credit 3. Examining and interpreting procedures for protecting and preserving the mental health of the individual through wholesome adjustment to the environment, with attention given to practicing mental hygiene in the classroom.
- 5073. **Health Care of Children.** (3-0) Credit 3. Essentials of growth and development of children: nutrition, purpose and scope of medical supervision, health inspection and observation, formation of desirable health habits, prevention of common diseases, speech disorders, play habits and skills, first aid, and use of community resources.

5173. **Nutrition.** (3-0) Credit 3. Essentials of an adequate diet; the food for persons of different ages; and the nutritive values of common food material. Special concern given the relationship between nutrition and health education. Materials from various agencies; diet surveys and projects.
5183. **Contemporary Health Problems.** (3-0) Credit 3. Study of the natural and man-made destructive forces in society. Recognition of emerging problems such as population expansion, radiation, urbanization, decreased water supply, energy crises, accident hazards and their effects upon man's health, as well as other health problems confronting rural populations.
5193. **Teaching of Health.** (3-0) Credit 3. Principles, materials, methods, and resources in teaching health in elementary and secondary schools.

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 in the area 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.

COLLEGE OF EDUCATION

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.

Department of School Services

ADMINISTRATIVE OFFICER

Ernest T. Brooks, B.A., M.Ed., Ph.D.

Acting Department Head

PROGRAM REQUIREMENTS

Suggested Program (Concentration in Counseling - M.S.)

Common Core (12 semester hours)

- CURR 5003 Theory and Dynamics of Curriculum and Instruction
- EDFN 5013 Foundations of Educational Research
- EDFN 5113 Psychology of Learning and Development
- EDFN 5123 Socio-Cultural Issues in Education

Program Concentration (12 semester hours)

- CNSL 5013 Counseling Techniques
- CNSL 5023 Theory and Practice of Counseling
- CNSL 5063 Counseling Practicum I
- CNSL 5113 Career Development Counseling

Research/Resource (12 semester hours)

- CNSL 5083 Psychology of Abnormal Behavior
- CNSL 5123 Appraisal Techniques
- EDFN 5143 Advanced Educational Statistics
- EDFN 5903 Thesis

Total Degree Requirements

36 Semester Hours

Suggested Program (Concentration in Counseling - 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
- EDFN 5123 Socio-Cultural Issues in Education

Program Concentration (12 semester hours)

- CNSL 5013 Counseling Techniques
- CNSL 5023 Theory and Practice of Counseling
- CNSL 5083 Psychology of Abnormal Behavior
- CNSL 5063 Counseling Practicum I

COLLEGE OF EDUCATION

Resource/Research (12 semester hours)

- CNSL 5003 Organization and Administration of Guidance and Human Services Programs
- CNSL 5113 Career Development Counseling
- CNSL 5123 Appraisal Techniques
- EDFN 5923 Master's Seminar

Total Degree Requirements

36 Semester Hours

Suggested Program (Concentration in School Administration)

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)

- ADMN 5003 Fundamentals of School Administration
- ADMN 5023 Public School Law
- ADMN 5033 School Business Management
- SUPV 5113 Principles of Supervision

Resource/Research (12 semester hours)

For M.Ed. degree:

- EDFN 5923 Master's Seminar
- ADMN 5503 Mid-Management Internship
- Electives (6 semester hours)

For M.S. degree:

- EDFN 5143 Advanced Educational Statistics
- EDFN 5903 Thesis
- ADMN 5503 Mid-Management Internship
- Electives (3 semester hours)

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.

DESCRIPTION OF COURSES

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 all 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.
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.** (0-3) 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: 12-hour core and CNSL 5013, 5023, 5033, 5113, and 5123.
- 5073. Counseling Practicum II.** (0-3) 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. Prerequisite: Completion of at least 42 semester hours of approved coursework in counseling including, CNSL 5063.
- 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.
- 5991-5992-5993. Independent Study.** (0-0) Credit 1, 2, or 3. Reading, research, and/or field work on selected topics. Prerequisite: Consent of advisor.

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 supporting 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 usually requires two or three years of acceptable teaching experience in an accredited elementary or secondary school. Beginning May 1, 1986, all teacher and administrator program graduates must pass proficiency tests in their fields of certification or endorsement. Students may add endorsements to a Provisional Teaching Certificate by taking graduate courses in an approved endorsement program. A listing of certificates and endorsements available and of the specific requirements for each is provided on the following pages.

Students who are pursuing certificates must submit a certification plan to the Office of Teacher Certification. Applications for admission to graduate teacher certification programs may also be obtained from the Office of Teacher Certification.

APPROVED PROFESSIONAL CERTIFICATE AND ENDORSEMENT PROGRAMS

1. PROFESSIONAL ELEMENTARY CERTIFICATE
2. PROFESSIONAL SECONDARY CERTIFICATES

| | |
|-----------|--------------------|
| Biology | Industrial Arts |
| Business | Mathematics |
| Chemistry | Physical Education |
| English | Social Studies |
| History | |

COLLEGE OF EDUCATION

3. SPECIAL SERVICES PROFESSIONAL CERTIFICATES

Administration: Mid-Management, Superintendent
Counselor
Counselor (Special Education)
Educational Diagnostician (Special Education)
Instructional Supervisor
Learning Resources Specialist
Reading Specialist

4. VOCATIONAL EDUCATION PROFESSIONAL CERTIFICATES

Vocational Agricultural Education
Vocational Counselor
Vocational Homemaking Education
Vocational Supervisor

5. PROVISIONAL CERTIFICATE ENDORSEMENTS

Driver Education
Kindergarten Education
Special Education for the Language/Learning Disabled
Special Education for the Mentally Retarded

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 & Dynamics of Curriculum & Instruction
EDFN 5113 Psychology of Learning & 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 Research in Elementary Education
ELED 5133 Seminar in Elementary Education
ELED 5153 Communication Problems in the Elementary School
ELED 5143 Individualizing Instruction in the Elementary Schools

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 must be graduate-level courses in one of the following specializations:

| | |
|-----------|--------------------|
| Biology | Industrial Arts |
| Business | Mathematics |
| Chemistry | Physical Education |
| English | Social Sciences |
| History | |

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.

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 Teacher 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
- CURR 5003 Theory and Dynamics of Curriculum and Instruction
- SUPV 5113 Principles of Supervision

COLLEGE OF EDUCATION

Academic Specialization (12 semester hours)

EDFN 5113 Psychology of Learning and Development,
and
9 semester hours of advanced credit approved by advisor from the
following areas:

| | |
|-------------------------|--------------|
| Economics | Psychology |
| Business Administration | Anthropology |
| Computer Science | Sociology |

Specialized Preparation for Mid-Management School Administrators (12 semester hours)

ADMN 5043 The School Principalship
ADMN 5053 Administration of Special Programs
ADMN 5063 Problems in Educational Administration
EDFN 5123 Socio-Cultural Issues In Education

Internship (3 semester hours)

ADMN 5503 Mid-Management Internship

ADMINISTRATION: SUPERINTENDENT CERTIFICATE

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

Specialized Preparation for School Superintendents (15 semester hours)

ADMN 5103 School Personnel Administration
ADMN 5113 Planning and Managing Educational Facilities
ADMN 5123 School Finance
ADMN 5133 School-Community Relations
ADMN 5513 Superintendency 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 32 semester hours of graduate
work in counseling.

The Guidance Program (3 semester Hours)

CNSL 5003 Organization and Administration of Guidance and Human
Service Programs

Pupil Services (6 semester hours)

CNSL 5083 Psychology of Abnormal Behavior
EDFN 5113 Psychology of Learning 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

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

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
- CNSL 5063 Counseling Practicum I
- 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
- EDFN 5113 Psychology of Learning and Development
- EDFN 5123 Socio-Cultural Issues in Education
- Special Education Electives (6 semester hours selected with approval of advisor)

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

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 Exceptional Child
- SPED 5263 Diagnostic and Prescriptive Techniques for the Exceptional Learner

COLLEGE OF EDUCATION

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 (9 semester hours)

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

Resource Area (12 semester hours)

- CURR 5003 Theory and Dynamics of Curriculum Instruction
- CURR 5503 Curriculum Evaluation
- 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 (24-27 semester hours)

- EDTC 5403 Audiovisual Materials
- EDTC 5413 Instructional Design and Development
- 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 5543 Advanced Local Production of Instructional Materials
- EDTC 5473 Practicum

or*

1 year of acceptable experience as a school librarian

Resource Area (6 semester hours)

- EDFN 3143 Advanced Educational Statistics
 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

*24 semester hours required if the 1 year of 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)

- EDFN 5113 Psychology of Learning and Development
 ELED 5153 Studies in Elementary School Subjects (for holders of secondary certificate)

or

- 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)

- AGED 5333 Administration and Supervision of Agricultural Education
 AGED 5353 Youth Leadership Development
 AGED 5363 Philosophy of Agricultural Education
 AGED 5393 Principles of Adult Education in Agriculture
 AGED 5713 Vocational Guidance and Counseling
 AGED 5714 Special Topics
 EDFN 5003 Theory and Dynamics of Curriculum and Instruction
 EDFN 5123 Socio-Cultural Issues in Education

and

6 hours of electives

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 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 5983 | History and Principles |

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

VOCATIONAL HOMEMAKING EDUCATION CERTIFICATE

(30 semester hours)

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

| | |
|-----------|---------------------------------------|
| HMEC 5313 | Studies in Family Resource Management |
| HMEC 5323 | Personal and Family Finance |
| HMEC 5333 | Family Economics |
| HMEC 5383 | Problems of Youth |
| HMEC 5393 | Family Life Problems |
| HMEC 5613 | Child Development Programs |
| HMEC 5633 | Seminar in Human Nutrition and Food |
| HMEC 5653 | Functional Clothing |
| HMEC 5683 | Problems in Home Economics |

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

| | |
|-----------|------------------|
| HEED 5433 | Supervision |
| HEED 5443 | Advanced Methods |
| HEED 5463 | Adult Education |

HEED 5473 Measurement and Evaluation

HEED 5493 Home Economics Curriculum

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

EDFN 5123 Socio-Cultural Issues in Education (Required)

SOCC 5243 Sociology of Urban Areas

SOCC 5263 Sociology of Education

SOCC 5273 Programs for Child Welfare

SOCC 5284 Aspects of Poverty

SOCC 5293 Social Disorganization

SOCC 5323 Sociology of Youth

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 5033 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 (12 semester hours)

INED 5403 Administration and Supervision of Industrial Arts

SUPV 5213 The School Supervisor

SUPV 5513 Supervision Practicum

EDFN 5123 Socio-Cultural Issues In Education

Resource Area (9 semester hours)

ADMN 5003 Fundamentals of School Administration

INED 5403 Administration & Supervision of Industrial Arts

VOED 5103 Placement and Follow-up

REQUIREMENTS FOR THE PROVISIONAL CERTIFICATE ENDORSEMENTS

DRIVER EDUCATION ENDORSEMENT

DRED 5103 Traffic Safety I

DRED 5203 Traffic Safety II

KINDERGARTEN EDUCATION ENDORSEMENT

- CURR 3234 Student Teaching**
and three of the following four courses:
KNED 5303 Development of the Young Child
KNED 5313 Foundations of Kindergarten Education
KNED 5333 Kindergarten Practicum
KNED 5343 Organization and Administration of Programs for Young Children

SPECIAL EDUCATION FOR THE LANGUAGE/LEARNING DISABLED ENDORSEMENT

- EDFN 5113 Psychology of Learning and Development**
SPED 5213 Introduction to Exceptional Children
SPED 5233 Language and Communication Problems
SPED 5243 Methods and Materials in Teaching
SPED 5263 Diagnostic and Prescriptive Techniques for the Exceptional Learner
SPED 5273 Learning Theory

SPECIAL EDUCATION FOR THE MENTALLY RETARDED ENDORSEMENT

- CURR 3244 Student Teaching**
SPED 5213 Introduction to Exceptional Children
SPED 5223 Psychology of Retarded Children
***SPED 5253 Methods of Teaching the Retarded**
***SPED 5283 Curriculum Adjustment**

***Prerequisites:** SPED 5213, SPED 5223.

College of Engineering

ADMINISTRATIVE OFFICER

Wayne D. Perry, B.S., M.S., Ph.D.

Dean

INSTRUCTIONAL ORGANIZATION

The College of Engineering offers a graduate program of study leading to the professional degree, Master of Science in Engineering (M.S.E.). Graduate work in engineering is designed to improve the student's ability in the professional practice of engineering and to develop research capability.

Program
Engineering

Degree
M.S.E.

ADVANCEMENT TO CANDIDACY

As soon as practicable after the student enrolls in the graduate program in engineering, the Coordinator of Graduate Studies in Engineering shall recommend to the Dean of the College of Engineering a committee of the graduate faculty to be in charge of the student's work.

The committee shall consist of at least three members of the graduate faculty, one of whom must be from the department in which the student is fulfilling his or her area of concentration. At least one member of the committee should be a full member of the graduate faculty.

The student shall develop a program of study. This program of study shall be developed under the direction of the major professor and in consultation with the student's advisory committee. The program of study shall be submitted, for approval, to the Dean of the College of Engineering and shall be filed with the Coordinator of the Graduate Studies in Engineering, the Dean of the College of Engineering and the Dean of the Graduate School. The program of study should be developed and processed by mid-semester of the first semester in which the student has enrolled in the graduate program.

PROGRAM REQUIREMENTS (M.S. - Engineering)

The degree Master of Science in Engineering (M.S.E.) is awarded for studies carried out under one of two degree plans. Plan I carries a minimum requirement of 36 semester hours including research and a thesis; 30 hours must be graduate work with 15 semester hours in a core; 12 hours must be strictly work in a major subject. Plan II carries a minimum requirement of 39 semester hours; 6 semester hours must be in a professionally-oriented internship, culminating in a completed engineering project and a written report. Under either plan a comprehensive examination is required.

The student will be in residence at least three semesters under Plan I and at least four semesters under Plan II. While all of the work for the master's degree is expected to be accomplished in residence at Prairie View A&M

COLLEGE OF ENGINEERING

University, candidates may transfer a part of their work from another college or university. Courses which are being transferred must be recommended in the program of study by the student's program of study committee. Graduate credit for transfer will only be considered if it carried a grade of "B" or better. All transfer credits are subject to approval of the Dean of the College of Engineering.

All work for the master's degree in engineering shall be completed within three years. In special circumstances the student's advisory committee may recommend to the Dean of the College of Engineering, that the time limit be extended.

Suggested Program (M.S.E. - Thesis Option)

| First Semester | Hrs | Second Semester | Hrs |
|--------------------------|------------|---------------------------|-----|
| GNEG 5013 | 3 | GNEG 5023 | 3 |
| Engr. Pol. and Econ. | | Engr. Mgmt. Syst. | |
| GNEG 5033 | 3 | GNEG 5053 | 3 |
| Engr. Prob. & Stat. | | Engr. Instrum. Syst. | |
| Technical Electives..... | 6 | Technical Electives..... | 3 |
| | | Adv. Math. Electives..... | 3 |
| | 12 | | 12 |
| Third Semester | Hrs | | |
| GNEG 5043 | 3 | | |
| Safety Engineering | | | |
| GNEG 5086 | 6 | | |
| Research & Thesis | | | |
| | 12 | | |

Suggested Program (M.S.E. - Non-Thesis Option)

| First Semester | Hrs | Second Semester | Hrs |
|--------------------------|------------|---------------------------|------------|
| GNEG 5013 | 3 | GNEG 5023 | 3 |
| Engr. Pol. and Econ. | | Engr. Mgmt. Syst. | |
| GNEG 5033 | 3 | GNEG 5053 | 3 |
| Engr. Prob. & Stat. | | Engr. Instrum. Syst. | |
| Technical Electives..... | 6 | Technical Electives..... | 3 |
| | | Adv. Math. Electives..... | 3 |
| | 12 | | 12 |
| Third Semester | Hrs | Fourth Semester | Hrs |
| GNEG 5043 | 3 | GNEG 5096 | 6 |
| Safety Engineering | | Prof. Internship | |
| Technical Electives..... | 6 | | |
| | 9 | | 6 |

DESCRIPTION OF COURSES

Civil Engineering (CVEG)

5113. **Soil Dynamics.** (3-0) Credit 3. Wave propagation in soils. Dynamic response of soil media to vibration effects and earthquakes. Cratering by explosives and penetration by projectiles. Analysis and design of dynamically loaded foundations.
5123. **Structural Dynamics.** (3-0) Credit 3. Single and multidegree systems, linear and nonlinear systems, damped or forced random vibrations, self-induced 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, beams-columns, bars and frames; inelastic buckling, torsional buckling; and bending and buckling of thin plates and shells.
5143. **Advanced Reinforced Concrete.** (3-0) Credit 3. Design of continuous reinforced concrete members and slabs, and ultimate strength and behavior of statically-indeterminate reinforced concrete structures.
- 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.

Electrical Engineering (ELEG)

5113. **Advanced Energy Conversions.** (3-0) Credit 3. Conversion of thermal, nuclear, and solar energy into electricity by means other than electromechanical. These include solar energy conversion via the photovoltaic effect, thermoelectric and thermionic conversions, and fuel cells. A brief treatment of nuclear reactors is included.
5123. **Protective Relaying of Power Systems.** (3-0) Credit 3. Fundamentals of instrumentation. Design and operation of protective schemes for equipment in generation, transmission, and distribution circuits. Analysis of abnormal system conditions requiring relaying operation.
5133. **Electric Power System Analysis I.** (3-0) Credit 3. Components of power systems. Analysis of electric power generation, transmission and utilization. Transient performance of linear circuits, load flow analysis, and computer use in automatic control.
5143. **Electrical Power System Analysis II.** (3-0) Credit 3. Transient performance of nonlinear characteristic circuits, power system stability, and future expansion and optimization of the system.
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 defraction experiments. Imperfections in crystal and glassy substances.

5163. **Integrated Digital Electronics.** (3-0) Credit 3. Impact of large-scale integration and VLSI on digital design and application is discussed. Special emphasis is given to microprocesses and memory devices; and information theory and the possibility of artificial intelligence are studied.
- 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.

General Engineering (GNEG)

5013. **Engineering Policies and Economics.** (3-0) Credit 3. Macro and micro economics as an input to engineering decisions. Resource allocations, distribution and conservation; political realities and societal demands, coupled with national and regional legal policies as constraints and as goals. Environmental impact and technology assessment. Case studies will be utilized.
5023. **Engineering Management Systems.** (3-0) Credit 3. An introduction to quantitative modeling and optimization; linear and dynamic programming; queueing theory; inventory models; critical path systems; network flow models; and technological forecasting. Case studies.
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.** (3-0) Credit 3. The study of engineering principles applied to industrial accident prevention and control through man-machine systems. Safety in plant layout, design, operations and maintenance. Federal and state laws, standards and guidelines. Risk management, accident costs, preparation of management reports. Study of the Occupational Safety and Health Act.
5053. **Engineering Instrumentation System.** (2-3) Credit 3. Transducer theory and operation; operational amplifiers and feedback control in analog systems; A-D and D-A converters for digital systems, information processing and retrieval.
5063. **Principles of Energy Sources.** (3-0) Credit 3. Types of energy, sources, availability, needs and demands, economics or extraction for use. Conservation and renewal.
5073. **Fundamentals of Environmental Systems.** (3-0) Credit 3. Analytical methods used in environmental engineering. Theory of operation of unit process in environmental engineering systems of industrial and domestic waste.
5083. **Advanced Engineering Management Systems.** (3-0) Credit 3. Continuation of Engineering 5023 with emphasis on advanced operation research techniques and computer simulation.
5086. **Research and Thesis.** (0-0) Credit 6. A candidate for the Master of Science in Engineering is required to perform a study, design or investigation, under the direction of a faculty member. A written thesis is required to be presented, defended orally and submitted to the faculty for approval.

5093. **Special Topics I and II.** (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.
5096. **Professional Internship.** (0-0) Credit 6. This is to provide realistic experiences in engineering to enhance the student's professional abilities. Students work on responsible projects with engineering firms involving decision-making responsibility. Course requires oral and written reports.

Mechanical Engineering (MCEG)

5013. **Statistical Thermodynamics for Engineers.** (3-0) Credit 3. Microscopic viewpoint of thermodynamics: First Law and Second Law, reversible and irreversible processes, chemical equilibrium, and properties of gases, liquids, and solids.
5023. **Advanced Solid and Wastewater Systems Management.** (3-0) Credit 3. Modern methods in the management of solid and waste water collection, and safe disposal in municipal and industrial environments.
5033. **Air Pollution Engineering.** (3-0) Credit 3. The nature of the air pollution problem and its effects on the public at large, Present legal and engineering controls to combat pollution. Techniques of air sampling and testing.
5043. **Heat, Mass, and 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.
- 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.

College of Engineering Technology

ADMINISTRATIVE OFFICER

Harold S. Bonner, B.S., M.S., Ed.D.

Acting Dean

INSTRUCTIONAL ORGANIZATION

The College of Engineering Technology offers graduate courses in industrial education. Graduate coursework 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 College of Education.

DESCRIPTION OF COURSES

Driver Education (DRED)

5103. Traffic Safety I. (2-2) Credit 3. Methods of teaching traffic safety at the secondary school level. Laboratory experiences in teaching beginners to drive in dual-control cars; psycho-physical testing; teaching materials and procedures; and state laws and regulations. Prerequisite: Student must possess a valid driver's license.

5203. Traffic Safety II. (2-2) Credit 3. Advanced study of methods of teaching and administration of high school driver and safety education programs. Prerequisite: DRED 5103.

5303. Traffic Safety III. (2-2) Credit 3. This course will involve multi-phase instruction, including simulation, multi-car driving ranges, and multi-media classroom techniques and procedures. Students preparing to teach will receive experience in the use of the equipment and facilities required for the program. Prerequisite: DRED 5203.

5403. Motorcycle Safety and Instruction. (2-2) Credit 3. Classroom and laboratory instruction designed to assist prospective teachers in the development of safe operational habits and skills in the organization, presentation and administration of motorcycle programs in public schools.

5503. Motorcycle Instruction and Methods. (2-2) Credit 3. Motorcycle rider skills development, service and maintenance procedures, and methods of instruction. Techniques for organization and administration of a motorcycle rider and safety program in public schools.

5603. Supervision of Driver and Safety Education. (3-0) Credit 3. This course includes philosophy, principles, and practice of supervision, with special emphasis on role-playing, group dynamics, problem-solving, program-scheduling, evaluation of teaching performance, and supervision of non-degreed teaching personnel (teaching assistants).

Industrial Education (INED)

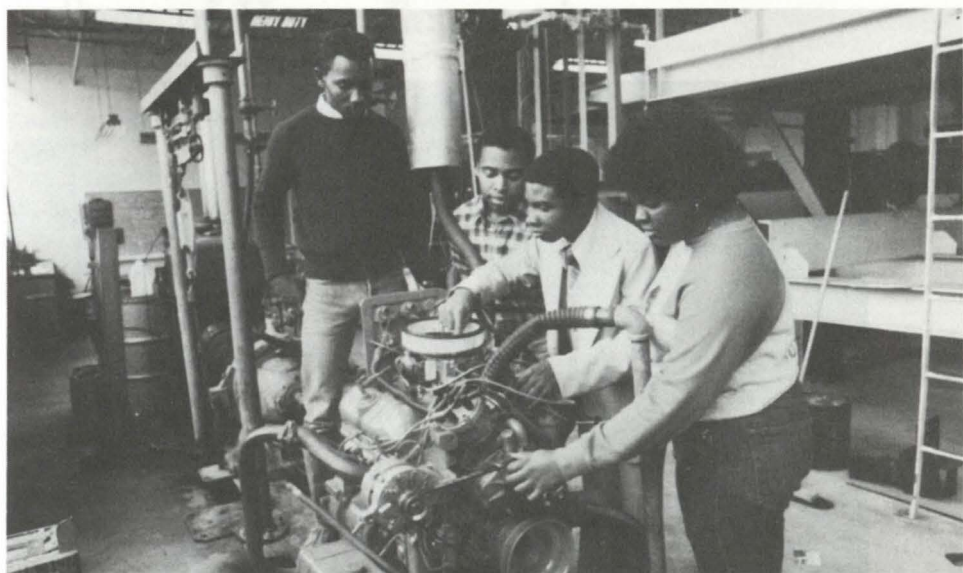
- 5003. Workshop I.** (2-2) Credit 3. An in-depth study of problems encountered by industrial education teachers. Techniques for problem identification, analysis, and resolution are explored. Also imparts limited training in the high technology areas of energy and power, computers, and electricity-electronics.
- 5013. Workshop II.** (2-2) Credit 3. Advanced study in selected technological areas. Emphasis is placed on electricity-electronics, energy and power, computer applications, and visual communications.
- 5083. Seminar in Vocational Guidance.** (3-0) Credit 3. Extensive overview of vocational guidance and counseling principles, including case studies, research studies, current issues, strategies, and ramifications of vocational guidance.
- 5103. Test and Measurements.** (3-0) Credit 3. Sources of instructional testing and evaluative materials; construction and use of tests and evaluative devices; administering, scoring, recording and interpreting tests; progress charts; and diagnosis of difficulties and analysis of teaching problems as related to evaluations.
- 5203. Instructional Methods.** (3-0) Credit 3. Study of methods, devices, and techniques as applied to teaching industrial subjects; analysis and evaluation of student learning difficulties and of the teaching responsibilities in industrial classes. Study of the nature, preparation and use of instruction sheets.
- 5303. Industrial Arts for Elementary School.** (3-0) Credit 3. Course designed for teachers, supervisors, and principals of elementary schools. Fundamental concepts, philosophies of industrial arts in the elementary school. Function and scope, organization, and administration of industrial arts at the elementary level.
- 5403. Administration and Supervision of Industrial Arts.** (3-0) Credit 3. Techniques for organizing, supervising and administering industrial arts programs. Addresses special problems experienced by industrial arts supervisors and administrators.
- 5503. Thesis in Industrial Education.** (3-0) Credit 3. Conferences and advisement in relationship to the selection and preparation of an acceptable thesis for the Master of Science degree. Prerequisite: INED 5903.
- 5603. Problems in Industrial Education.** (3-0) Credit 3. Conferences and advisement in selection and preparation of an acceptable term paper or essay. Prerequisite: INED 5903.
- 5703. The History of Industrial Education.** (3-0) Credit 3. A survey of the early movement, experiments and writings of leaders in the United States and European countries. Intensive study of developments in industrial education since 1950. A comparative study of leaders, movements, institutions and literature in the field.
- 5803. Practicum in Industrial Education.** (3-0) Credit 3. Study of problems that arise through the merging of practical experiences with theoretical and scientific concepts.

- 5903. Research and Thesis Writing.** (3-0) Credit 3. Required of all M.S. candidates in Industrial Education. Methods and techniques of research writing and reporting. Designed especially for students who are to write a thesis or a lesser report.
- 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.

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.
- 5142-5143. Instructional Materials.** (2-0, 3-0) Credit 2 or 3. Acquiring skills and techniques in developing and preparing instructional materials. Preparation and use of instructional sheets and lesson plans; evaluation of instructional materials and relating how these materials are used in the actual laboratory setting.
- 5203. Instructional Methods.** (3-0) Credit 3. A study of methods, visuals and techniques applied in the teaching of industrial subjects. An analysis and evaluation of proven ways for teaching vocational classes. Mock teaching sessions will be required in this course.
- 5302-5303. Classroom Management.** (2-0, 3-0) Credit 2 or 3. A study of organizing and managing vocational classes in secondary schools. Requires locating machinery, safety lanes, tool room procedures, controlling supplies and materials, and a detailed study on how to plan and operate a vocational laboratory.
- 5403. Occupational and Vocational Education.** (3-0) Credit 3. Methods of collecting, evaluating, cataloging and disseminating occupational and vocational education information.
- 5502-5503. Occupational Analysis and Coursemaking.** (2-0, 3-0) Credit 2 or 3. The analysis of a given trade relative to its teaching content. The process of preparing courses of study.
- 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 ed-

- ucation programs, including the financing of vocational programs using local, state, and federal funds.
- 5633. Philosophy and Objectives.** (3-0) Credit 3. The philosophy and objectives of vocational education in the total educational process. A study of fundamental concepts, beliefs, principles and assumptions relative to the role and scope of vocational education.
- 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 shops/laboratories, and to select the equipment required for a given curriculum.
- 5752-5753. Selection, Placement and Follow-Up.** (2-0, 3-0) Credit 2 or 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.
- 5832-5833. Human Relations.** (2-0, 3-0) Credit 2 or 3. A study of human relation factors which must be understood and communicated in vocational classes. Emphasis on understanding the meaning of democracy, governmental rules in human rights, behavior patterns, and interpersonal and intergroup communications.
- 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.
- 5932-5933. Problems.** (2-0, 3-0) Credit 2 or 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.



...and must reflect official signatures for Honorary Form reflecting the ...
 ...with a minimum of twelve (12) semester hours of ...
 ...graduate courses with an average of "B" or better.

...efficiency form may be obtained in the Office of the Graduate Dean ...
 ...application when approved by both major and minor areas of special ...
 ...must be submitted to the Graduate Dean for approval.

DEGREE REQUIREMENTS (M.S. - Home Economics)

A minimum of thirty (30) semester hours, exclusive of a research ...
 ...course and thesis, with an average grade of "B" or better, in courses ...
 ...approved for graduate credit, is required for the degree Master of ...
 ...Science.



The woman is working on a sewing machine. She is wearing a dark suit jacket and a white shirt. In the background, there is a mannequin wearing a dark coat. The setting appears to be a fashion design or tailoring studio.

College of Home Economics

ADMINISTRATIVE OFFICER

Flossie M. Byrd, B.S., M.Ed., Ph.D.

Dean

INSTRUCTIONAL ORGANIZATION

The College of Home Economics offers the following graduate degree program:

| <i>Program</i> | <i>Degree Offered</i> |
|----------------|-----------------------|
| Home Economics | M.S. |

The College also provides graduate support courses in this area as well as home economics education. Graduate coursework in home economics may also be applied to a master's degree program in education with a concentration in home economics. Students seeking this option should apply for admission to the College of Education.

ADMISSION TO PROGRAM

Students desiring to major in Home Economics on the graduate level must present undergraduate subject matter credits in the following areas: the social, physical, and biological sciences; the arts; and education. These courses shall be approved by the advisor under whose direction the major work is to be done. In addition, adequate preparation in undergraduate work in home economics is necessary.

These criteria are in addition to the basic University requirements for Admission to the Graduate School.

Students with grade point averages of less than 2.75 are not admitted to the College of Home Economics as graduate students.

ADVANCEMENT TO CANDIDACY

A graduate student having been previously admitted to full graduate status does not automatically become a candidate for the Master's degree. To become a candidate, the student must complete the following requirements:

Prepare and submit official Application for Candidacy Form reflecting the applicant's having satisfactorily completed twelve (12) semester hours of required graduate courses with an average of "B" or better.

This candidacy form may be obtained in the Office of the Graduate Dean. The application when approved by both major and minor areas of specialization must be submitted to the Graduate Dean for approval.

PROGRAM REQUIREMENTS (M.S. - Home Economics)

A minimum of thirty (30) semester hours, exclusive of a research course and thesis, with an average grade of "B", or better, in courses approved for graduate credit, is required for the degree Master of Science.

Suggested Program

| | |
|-----------|--|
| HMEC 5313 | Studies in Family Resource Management |
| HMEC 5333 | Family Economics |
| HMEC 5383 | Problems of Youth |
| HMEC 5393 | Family Life Problems |
| HMEC 5543 | Child Development I |
| HMEC 5553 | Child Development II |
| HMEC 5683 | Problems in Home Economics |
| Electives | (9 semester hours from one area of specialization) |

DESCRIPTION OF COURSES

Home Economics (HMEC)

- 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.
- 5323. Personal and Family Finance.** (3-0) Credit 3. A study of general problems of individual and family handling of money; factors influencing income expenditure relationships; an analysis of problems and programs for improving adequacy and security of income during the family life cycle. Especially planned for students with limited background experiences on the graduate level.
- 5333. Family Economics.** (3-0) Credit 3. Problems of measuring family income, wealth and welfare. Programs for improving adequacy and security of income during family life cycle. Factors which influence standards and levels of living.
- 5343. Research Problems.** (3-0) Credit 3. A study of research methods in social sciences applicable to research in home economics. Planning a research study; understanding research reports; identifying needed research in home economics. Abstract and proposal writing. One major paper required.
- 5373. Housing Alternatives for Individuals.** (3-0) Credit 3. Meeting human needs at the various stages of the life cycle through alternative housing forms. Emphasis on internal housing environment as influenced by social, technological, and physical factors.
- 5383. Problems of Youth.** (3-0) Credit 3. Problems concerned with youth during adolescent years; current concerns and research literature review; attention to problem cases as represented in secondary home economics classes. One major paper required.
- 5393. Family Life Problems.** (3-0) Credit 3. An analysis of the effects of parenthood, sibling and intergenerational relationships on family solidarity; review and analysis of current literature related to human development; current and emerging factors in marriage and family life. One major paper required. Other projects adapted to special needs and interests of students.

5533. **Family Theory and Issues.** (3-0) Credit 3. A comprehensive review of theoretical-conceptual frameworks and research in family studies. The role of theory and research in the interdisciplinary study of individual and family behavior throughout the life cycle.
5543. **Child Development I.** (3-0) Credit 3. A study of the developmental characteristics of the child from birth to age five. Analysis of major theories and research with emphasis upon interpretation and application of research findings to programs for young children and parent education.
5553. **Child Development II.** (3-0) Credit 3. A study of the developmental characteristics of middle childhood, ages five through twelve, through the analysis of current research and developmental theories. Examination, evaluation and interpretation of current issues and trends.
5563. **Child Study.** (3-0) Credit 3. A study of a variety of methods and techniques for studying children; analysis of procedures in the selection and development of data collection techniques. Experience in development and use of selected child study techniques.
5583. **Parenting: Fatherhood.** (3-0) Credit 3. Addresses itself to the latest research and skills known as parenting and fatherhood; extracts essential concepts and basic assumptions underlying these concepts; integration of concepts into a meaningful configuration; pre- and in-service education for fatherhood.
5613. **Child Development Programs.** (3-0) Credit 3. A study of modern program approaches in the preschool; an analysis of program innovations resulting from research findings and developmental projects. A study of objectives, program organization, content and materials.
5633. **Seminar in Human Nutrition and Food.** (3-0) Credit 3. Review and interpretation of selected materials from the scientific literature in nutrition and food; emphasis on recent advances in food technology and experimentation and in nutrition science. Individual assignments and reports; abstract writing.
5643. **Perspectives in Food and Nutrition.** (3-0) Credit 3. Current trends and basic concepts in food, nutrition and institutional administration as related to dietetic services and public health nutrition. Designed for persons planning to register for the Dietetic Registration Examination.
5653. **Functional Clothing.** (3-0) Credit 3. The latest clothing construction techniques for men's, women's and children's clothing. Speed and custom methods for gaining personalized fit and for teaching clothing construction by focusing on functional qualities.
5663. **Advanced Design Analysis.** (0-6) Credit 3. A study of the principles of design; draping of fabric on dress form; interpretation of design in relation to different figures; application of design and pattern making principles to various fabrics styles. Construction of the draped garment.
5673. **Readings in Clothing and Textiles.** (3-0) Credit 3. Intensive survey, analysis and evaluation of current literature; implications for further research.

- 5683. Problems in Home Economics.** (3-0) Credit 3. Current trends and issues in home economics, the school program and profession of home economics; special work in area of major interest. Reports, discussions, term projects. Registration with permission of instructor.
- 5691. Thesis.** (2-2) Credit 1.
- 5692. Thesis.** (3-3) Credit 2.
- 5693. Thesis.** (3-4) Credit 3.
- 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.

Home Economics Education (HEED)

- 5412. Workshop.** (2-0) Credit 2.
- 5413. Workshop in Home Economics.** (3-0) Credit 3.
- 5433. Supervision.** (3-0) Credit 3. Principles of supervision as applied to the home economics education program; analysis of leadership functions, program effectiveness, and supervision.
- 5443. Advanced Methods.** (3-0) Credit 3. A study of newer trends in teaching home economics; analysis of research findings; vocational education changes and changes in contemporary society as related to the formulation of educational objectives; subject matter selection, method and organization; and the role of evaluation in the teaching-learning process. One major paper required.
- 5463. Adult Education.** (3-0) Credit 3. A study of organizing, administering and planning adult programs; methods and materials; evaluation of research and instruction in adult education; supervision of programs; consideration of contemporary and futuristic programs. One major paper required.
- 5472. Workshop.** (2-0) Credit 2.
- 5473. Measurement and Evaluation.** (3-0) Credit 3. The application of basic concepts of measurement and evaluation applied to home economics programs; standards for the achievement of educational goals; analysis of measurement and evaluation techniques for instruction and guidance; construction of evaluative instruments. One major paper required with prior approval by instructor.
- 5483. Foundations of Educational Research.** (3-0) Credit 3. Basic concepts of research design. Strategies of experimental, historical, and descriptive research. Basic statistical procedures are introduced.
- 5493. Home Economics Curriculum.** (3-0) Credit 3. Clarification of the philosophy and objectives of home economics and of their relationship to the home economics program and to the community; an analysis of techniques for cooperative program planning; sociocultural foundations of the home economics curriculum; significant research in home economics curricula and emerging programs in home economics. Development of curricula for use in individual situations.

COLLEGE OF HOME ECONOMICS

5991-5992-5993. Independent Study. (0-0) Credit 1, 2, or 3. Reading, research, and/or field work on selected topics. Prerequisite: Consent of advisor.

- ANDERSON, L. (1967)** Professor, Administration
 M.S., Southern State College, 1954
 M.A., East Texas University, 1952
 Ph.D., Bowling Green State University, 1958
- ANDERSON, MICHAEL A., (1961)** Assistant Professor, Counseling
 M.S., Indiana State College, 1954
 M.S., Indiana State University, 1957
 Ph.D., Indiana State University, 1974
- ANDERSON, J. TIMOTHY (1947)** Associate Professor,
 Art, Music & Drama
 M.A., Central State University, 1942
 M.A., New York University, 1947
 Ph.D., University of Iowa, 1952
- ANDERSON, C. L. (1961)** Assistant Professor, Economics & Finance
 M.S., Western Community College, 1952
 Ph.D., York University College at Spryfield, 1974
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- ANDERSON, MARTHA (1977)** Assistant Professor, Elementary Education
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- ANDERSON, ROSALIND H., (1951)** Instructor, Accounting
 M.B.A., University of Texas at Arlington, 1972
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- ANDERSON, HENRY H., (1962)** Assistant Professor, Chemistry
 M.S., Texas College, 1955
 Ph.D., Texas Christian University, 1958
- ANDERSON, JEWEL E. (1959)** Professor, Biology
 M.S., Peck University, 1951
 M.A., Peck University, 1952
 Ph.D., University of Notre Dame, 1959
- ANDERSON, HAROLD G., (1979)** Associate Professor, Industrial Education
 M.S., Prairie View A&M University, 1962
 M.S., Prairie View A&M University, 1970
 Ph.D., Texas A&M University, 1973
- ANDERSON, CLARISSA C. (1969)** Assistant Professor, Reading
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 Ph.D., University of Houston, 1971
- ANDERSON, FLOYD (1967)** Associate Professor, Industrial Education
 M.S., Bowling Green, 1954
 M.A., New York University, 1956
 Ph.D., Texas A&M University, 1972
- ANDERSON, SUCENE A., (1971)** Professor, Agriculture
 M.S., University of Wisconsin, 1966
 M.S., University of Wisconsin, 1966
 Ph.D., University of Florida, 1967
- ANDERSON, ERNEST T., (1979)** Professor, Counseling
 M.A., Lees College, 1964
 M.A., Murray State University, 1969
 M.S., Murray State University, 1970
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- AIKENS, LOUIS L., (1978)** Professor, Administration
B.S., Bluefield State College, 1954
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B.S., Central State University, 1945
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M.A., Howard University, 1980
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- BAKER, ROSALIND R., (1981)** Instructor, Accounting
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M.S., University of Houston, 1980
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B.S., Prairie View A&M University, 1962
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Ed.D., Texas A&M University, 1972
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B.S., Prairie View A&M University, 1968
M.A., University of Northern Colorado, 1969
Ed.D., University of Houston, 1977
- BOYDEN, LLOYD, (1957)** Associate Professor, Industrial Education
B.S., Hampton Institute, 1952
M.A., New York University, 1959
Ed.D., Texas A&M University, 1972
- BRAMS, EUGENE A., (1971)** Professor, Agriculture
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M.S., University of Wisconsin, 1949
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- BROOKS, ERNEST T., (1979)** Professor, Counseling
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B.A., Clark College, 1969
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M.S., University of Florida, 1972
Ph.D., University of Florida, 1976
- BYRD, FLOSSIE M., (1962)**..... Professor, Home Economics
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Ph.D., Cornell University, 1963
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Administration
B.S., Prairie View A&M University, 1946
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- CARTER, JEAN, (1972)**..... Associate Professor, English and
Foreign Languages
B.A., Seton Hill College, 1950
M.A., Xavier University, 1958
Ph.D., St. Louis University, 1965
- CARTER, PURVIS M., (1956)**.....Associate Professor, Social
& Political Sciences
A.B., Tillotson College, 1948
M.A., Howard University, 1950
Ph.D., University of Colorado, 1970
- CHANG, ING, (1970)**.....Associate Professor, Mechanical Engineering
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M.S., Rice University, 1965
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- CHAPMAN, WILLIAM H., (1966)**..... Assistant Professor, English and
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- CLARK, ROSS D., (1972)**..... Associate Professor, Secondary Education
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B.S., Prairie View A&M University, 1946
M.Ed., Prairie View A&M University, 1953
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- COLE, LARRY L., (1972)**.....Assistant Professor, Chemistry
B.S., Texas Southern University, 1966
Ph.D., University of Houston, 1971
- COLEMAN, LEE R., (1976)**.....Instructor, Counseling
B.S., Prairie View AM University, 1967
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- DOCTOR, VASANT M., (1967)** Professor, Chemistry
 B.S., Royal Institute of Science, 1946
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- EDWARDS, CHARLES T., (1957)**..... Professor, Engineering Technology
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 B.D., Southern Baptist Theological Seminary, 1959
 Th.M., Southern Baptist Theological Seminary, 1961
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- ENGLISH, LEON G., (1969)** Professor, Health & Physical Education
 B.S., Prairie View A&M University, 1948
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 M.S., University of Southern California, 1952
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 B.S., Fayetteville State University, 1965
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 Electrical Engineering
 B.S., University of Notre Dame, 1958
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- FOSTER, LAURETTE B., (1976)** Associate Professor,
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 B.A., Prairie View A&M University, 1943
 B.M., New England Conservatory of Music, 1947
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 B.S., Southern Methodist University, 1948
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- HARRIS, JOHN D., (1982)** Assistant Professor, Counseling
 A.A., Henderson County Jr. College, 1968
 B.M.Ed., East Texas State University, 1970
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B.S., Ft. Valley State College, 1968
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- HAWKINS, DORISULA W., (1966)** Associate Professor,
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Ed.D., University of Houston, 1975
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& Computer Science
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 B.A., Prairie View A&M University, 1960
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 M.S., Kansas State College of Pittsburg, 1968
 Ph.D., Purdue University, 1974
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 & Political Sciences
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 M.A., University of Cincinnati, 1970
 Ph.D., University of Cincinnati, 1981
- LEDBETTER, FRANKIE B., (1952).....** Associate Professor, English
 & Foreign Languages
 B.A., Bishop College, 1935
 M.A., University of Colorado, 1952
- LINSLEY, JERALD N., (1982).....** Assistant Professor, Chemical Engineering
 B.S.C.E., Texas Tech University, 1960
 Ph.D., Rice University, 1970
- MARTIN, EDWARD W., (1952).....** Professor, Biology
 B.A., Fisk University, 1950
 M.A., Indiana University, 1952
 Ph.D., State University of Iowa, 1962
- MASSIAH, ERNA, (1979).....** Assistant Professor, Elementary Education
 B.S., Prairie View A&M University, 1974
 M.Ed., Prairie View A&M University, 1975
 Ed.D., University of Houston, 1979
- McQUEEN, WILLIAM F., (1978).....** Assistant Professor, Art,
 Music and Drama
 B.S., Florida A&M University, 1973
 M.M., Florida State University, 1974
- MILLER, HELEN E., (1980).....** Associate Professor, Elementary Education
 B.A., Huston-Tillotson College, 1947
 M.Ed., University of Texas at Austin, 1958
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 Physical Education
 B.S., Langston University, 1948
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 Ed.D., University of Northern Colorado, 1968
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 B.S., Southern University, 1963
 Ph.D., Purdue University, 1967
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 B.S., Prairie View A&M University, 1971
 M.Ed., Prairie View A&M University, 1974
 Ph.D., Kansas State University, 1983

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- OLIVER, J. D., (1982).....Assistant Professor, Mathematics &
Computer Science
B.S., Prairie View A&M University, 1961
M.A., Fisk University, 1965
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- OLIVER, PEDRO A., (1964)Associate Professor, Mathematics
& Computer Science
B.S., Matanzas Institute, 1949
M.S., Texas A&M University, 1967
Ph.D., Havana University, 1949
- PARKER, WILLIAM H., (1974).....Associate Professor, Administration
B.S., Alcorn State University, 1962
M.S., Indiana University, 1966
Ed.D., University of Miami, 1974
- PARKS, ALFRED, (1977).....Associate Professor, Agriculture
B.S., Arkansas AM&N University, 1967
M.S., University of Illinois, 1969
Ph.D., University of Illinois, 1973
- POINDEXTER, JIMMIE P., (1971) Assistant Professor, Sociology
& Social Work
B.A., Prairie View A&M University, 1955
M.S.W., Howard University, 1957
- RANDLE, CHARLES F., (1968)..... Assistant Professor, Administration
B.S., Prairie View A&M University, 1949
M.S., Prairie View A&M University, 1950
- RAO, ANASUYA S., (1965).....Associate Professor, Social
& Political Sciences
B.A., Maharani's College for Women (Bangalore, India), 1951
B.Ed., R.V. Teachers' College, 1956
M.Ed., Rutgers University, 1965
Ph.D., Texas A&M University, 1971
- RAO, R.S.N., (1964) Professor, Civil Engineering
B.E., University of Mysore, 1946
M.E., University of Roorkee, 1958
M.S., University of Connecticut, 1961
Ph.D., Rutgers University, 1964
- RICHARDS, FREDDIE L., (1976).....Professor, Agriculture
B.S., Alabama A&M University, 1966
M.Ed., Tuskegee Institute, 1969
Ph.D., Pennsylvania State University, 1972
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Engineering
A.A.S., New York University, 1963
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M.S., Vanderbilt University, 1968
M.S., Vanderbilt University, 1972
Ph.D., Vanderbilt University, 1976
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General Business Administration
B.S., Southern University, 1952
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Ed.S., New York University, 1954
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 B.S.M.E., Prairie View A&M University, 1969
 M.S.M.E., Southern Methodist University, 1971
- SHINE, THEODIS, (1969)** Professor, Art, Music & Drama
 B.A., Howard University, 1953
 M.A., University of Iowa, 1958
 Ph.D., University of California, 1972
- SMITH, SEAB A., (1970)**..... Assistant Professor, Biology
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 M.S., Northwestern State University of Louisiana, 1970
 Ed.D., University of Houston, 1981
- SOLIMAN, MOSTAFA, (1971)** Associate Professor,
 Economics & Finance
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 M.S., Cornell University, 1963
 Ph.D., Iowa State University, 1967
- STARLING, IREDELL, (1969)** Associate Professor, Administration
 B.A., Texas College, 1950
 M.Ed., Texas Southern University, 1954
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- STEWART, A. D., (1953)**..... Professor, Mathematics & Computer Science
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 B.S., Howard University, 1947
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 Ph.D., University of Texas, 1960
- STRICKLAND, CECIL L., (1974)**..... Professor, Agriculture
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 M.S., University of Illinois, 1963
 Ed.D., North Carolina State University of Raleigh, 1974
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 M.F.A., Louisiana State University, 1975
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 & Foreign Languages
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 M.A., New Mexico Highlands University, 1966
 Ed.D., Washington State University, 1976
- THORNTON, EVELYN E., (1958)**..... Associate Professor, Mathematics
 & Computer Science
 B.S., Texas Southern University, 1955
 M.S., Texas Southern University, 1957
 Ph.D., University of Houston, 1973
- TROTTY, WILLIE F., (1977)** Associate Professor, Administration
 B.S., Stephen F. Austin State University, 1970
 M.S., Stephen F. Austin State University, 1972
 Ph.D., Purdue University, 1977
- WASHINGTON, ARTHUR C., (1974)** Professor, Biology
 B.S., Texas College, 1961
 M.S., Tuskegee Institute, 1963
 Ph.D., Illinois Institute of Technology, 1971
- WEBSTER, WAYMON T., (1967)**..... Professor, Educational Psychology
 B.A., Prairie View A&M University, 1952
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WHITE, MARY L., (1957, 1979)..... Associate Professor, Health & Physical Education

B.S., Alcorn State University, 1955
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WILLIAMS, JOHN R., (1976) Professor, Chemistry
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Ph.D., Massachusetts Institute of Technology, 1976

WILLIAMS, LORA L., (1978)..... Instructor, Special Education
B.A., Fisk University, 1973
M.S., George Peabody College, 1976

WILLIAMS, SARAH B., (1972)..... Professor, Sociology & Social Work
B.A., University of Texas at Austin, 1970
M.S.W., University of Houston, 1972
Ph.D., University of Texas at Austin, 1978

WRIGHT, HOOVER J., (1961)..... Associate Professor, Health & Physical Education
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B.S., Florida A&M University, 1959
M.M., University of Rochester Eastman School of Music, 1960
Ph.D., University of Rochester, 1973

YEH, HSIANG Y., (1969)..... Associate Professor, Civil Engineering
B.S., Cheng Kung University, 1962
M.S., University of Mexico, 1967
Ph.D., University of New Mexico, 1969

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